



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING SHEGAON
Name of the head of the Institution		Dr S.B.Somani
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		917020676616
Mobile no.		9422182216
Registered Email		principal@ssgmce.ac.in
Alternate Email		F_3121013@ssgmce.ac.in
Address		SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING Khamgaon Road, SHEGAON
City/Town		Shegaon
State/UT		Maharashtra
Pincode		444203

<b>2. Institutional Status</b>					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr A.U.Jawadekar			
Phone no/Alternate Phone no.		917972249173			
Mobile no.		9766824978			
Registered Email		iqac@ssgmce.ac.in			
Alternate Email		F_3121039@ssgmce.ac.in			
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)		<a href="https://www.ssgmce.ac.in/uploads/AOAR/AOAR_2018-19-uploaded-13_sep2023[4061%20(1).pdf">https://www.ssgmce.ac.in/uploads/AOAR/AOAR_2018-19-uploaded-13_sep2023[4061%20(1).pdf</a>			
<b>4. Whether Academic Calendar prepared during the year</b>		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="https://www.ssgmce.ac.in/uploads/pdf/Academic%20Calendar%20(B.E.)%202019-20[314].pdf">https://www.ssgmce.ac.in/uploads/pdf/Academic%20Calendar%20(B.E.)%202019-20[314].pdf</a>			
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B+	78.25	2003	21-Mar-2003	21-Mar-2008
2	B	2.81	2010	28-Mar-2010	28-Mar-2015
<b>6. Date of Establishment of IQAC</b>			10-Jun-2003		
<b>7. Internal Quality Assurance System</b>					
Quality initiatives by IQAC during the year for promoting quality culture					

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
FDP on Evolution of Internet of Things for Industry 4.0	10-Dec-2019 5	45
Organization of International Conference (ICITAET-2019)	27-Dec-2019 2	120
Seminar on 'Importance of Internships	08-Aug-2019 01	320
Two day workshop on Research Methodology	30-Aug-2019 02	39
Organization of Technical Event Pursuit	28-Feb-2020 02	350
Workshop on Hands on Training on Robotics Process Automation in collaboration with Automation Anywhere Bangalore	24-Jan-2020 02	35

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**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
Dr. P. R. Wankhede, Electronics & Telecomm. Engineering	FDP "Robotics and AI"	Electronics and ICT Academy PDPM IITDM Jabalpur	2019 30	81580
Prof. N. B. Borkar, Mechanical Engineering	Prof. N. B. Borkar, Mechanical Engineering	Electronics and ICT Academy PDPM IITDM Jabalpur	2019 30	142500
Dr. N. M. Kandoi, Computer Science and Engg.	STTP Under AQIS STTP on Machine Learning and Its Applications in Data Analytics	AICTE, New Delhi	2020 30	361667
Dr. S. R. Paraskar, Electrical Engg.	STTP Under AQIS Software Utility for -Teaching and Research in Electrical Engineering	AICTE, New Delhi	2020 8	285000

Dr S P Trikal Mechanical Engineering	MODROB Under AQIS Modernization of Internal Combustion Engine Lab and Automobile Lab	AICTE, New Delhi	2020 600	1489412
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<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View Link</a>
<b>10. Number of IQAC meetings held during the year :</b>	2
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	<a href="#">View Uploaded File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No
<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>	
Four undergraduate programs (Electrical, Mechanical, Electronics and Telecommunication, and Computer Science) received NBA accreditation for three years	
Participation of Faculty in STTP/FDP: 147 FDP and STTP programs attended by faculty in their thrust areas, and 16 faculty members completed Swayam/NPTEL certification courses	
The International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET-2019) was organized on 27th and 28th December 2019. The IEEE Bombay section provided technical sponsorship for the conference	
Four departments received grants from funding agencies to organize FDP/STTP	
Students completing Swayam/NPTEL certification courses: 58; MOOC certification completed by twenty two students	

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

Plan of Action	Achievements/Outcomes
Development of Gender sensitization action Plan	(04) Programs for staff, students, were conducted to raise awareness about genderrelated issues. CCTV cameras are installed at vantage points keep a 24hour vigil on all activities and movements in the premises, thus enhancing the safety and security of staff and students in the College
Organization of Industry Institute Meet	SSGMCE held IndustryInstituteMeet at its campus on 8 th and 9th February 2020 . More than hundred industrial persons including founders, entrepreneurs, HRs, CEOs of leading industries across the county participated in the meet
Organization of International Conference	Institute organized an International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET-2019) on 27th and 28th December 2019. IEEE Bombay section was the technical sponsor for the conference. Theme of conference revolved around the Industry 4.0 standards and automation
NBA Accreditation of 04 UG programs and PG Program	Four undergraduate programs (Electrical, Mechanical, Electronics and Telecommunication, and Computer Science) received NBA accreditation for three years
FDP on Evolution of Internet of Things for Industry 4.0	The Department of Mechanical Engineering held an FDP on the Evolution of Internet of Things for Industry 4.0 from December 10th to 14th, 2019, under the E&ICT Academy, IIITDM Jabalpur, an initiative of the Ministry of Electronics and Information Technology, Government of India
Revision of code of conduct document	The institute has revised the Code of Conduct document and made it available on the website for all stakeholders
Sabatical Training for faculty	Two Faculty Members Mr V.S.Ingole and Mr N.M.More completed six months training at FAB Lab Pabal
Participation of Faculty in STTP/FDP	147 FDP and STTP programs in their thrust areas attended by Faculty
To enhance participation in SWAYAM/NPTEL/MOOCs certification programs	70 students and 16 faculty successfully completed the courses

"Organization of various Student development activities under Professional Societies"	44 student development activities under various Professional Societies are organized by the respective Professional Societies of the institute				
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="118 456 794 506" style="width: 50%;">Name of Statutory Body</th> <th data-bbox="801 456 1477 506" style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td data-bbox="118 506 794 560" style="text-align: center;">Governing Body</td> <td data-bbox="801 506 1477 560" style="text-align: center;">12-Aug-2023</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Governing Body	12-Aug-2023
Name of Statutory Body	Meeting Date				
Governing Body	12-Aug-2023				
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes				
Date of Visit	20-Sep-2019				
<b>16. Whether institutional data submitted to AISHE:</b>	Yes				
Year of Submission	2020				
Date of Submission	07-Jan-2020				
<b>17. Does the Institution have Management Information System ?</b>	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>SSGMCE has developed its MIS software inhouse. The software incorporates the functionalities of the Student Information System as well as the Management Information System. This information system is instrumental in performing various academic and administrative tasks. It oversees a students entire academic journey, from the time of enrollment to graduation. The currently operational modules include: 1 Registration Module: This module collects, collates, and manages admission inquiries. It is closely related to the registration of applicants and the admission process .Adhering to the admissions process mandated by the Director of Technical Education (DTE), the college assigns a unique admission number through the SAP software. Based on this number, credentials are generated through SIS. Students then use these credentials to log in to the system, where they are</p>				

required to submit various types of information, including personal details, parental information, addresses, and qualifying exam details.

2. Timetable Management Module: This module records the teaching load of faculty members and maintains a class schedule. It plays a crucial role in facilitating the teaching and learning process, with functionality primarily associated with teaching schemes, courses, and faculty student allocation.

3. Student Attendance Module: In parallel, the Student Attendance Module records subjectwise and daily attendance, offering attendance reports on various scales. The process of analyzing and generating attendance reports, encompassing daily, monthly, and semester records for the entire institution, has been significantly streamlined. Additionally, the system ensures proactive communication with parents by sending attendance reports through SMS, promptly notifying them of their wards absence from college.

4. Examination Management Module: This module encompasses a range of activities related to configuration, conduction, and the final calculation of internal marks for students across all departments. It collects data from class tests, assignments, and attendance to calculate the final internal marks for all courses. Additionally, coattainment is computed based on the test marks. After each class test, a class feedback form is created on SIS. At the end of the semester, it provides comprehensive academic data, including the number of lectures delivered, the number of lecture plans prepared, and the CO attainment levels achieved for each course. Overall, the MIS software developed by SSGMCE optimizes administrative and academic operations, improving efficiency and effectiveness in the management of student information and institutional tasks.

## 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

The institute holds affiliation with Sant Gadge Baba Amravati University, Amravati. The Engineering and Management Board of Studies (BOS) is responsible for designing and preparing the curriculum for the program, adhering to the guidelines set forth by AICTE. The institute places a strong emphasis on efficient curriculum delivery, ensuring transparency and systematic processes.

Following the university's academic calendar diligently, the Heads of Departments conduct meetings to distribute workload, allocate subjects, and plan departmental activities. The Dean Academics monitors the progress of syllabus completion after each class test, while the Principal oversees the effective implementation of the curriculum through meetings with HODs. At the outset of each semester, faculty members prepare lesson plans and lecture plans. They identify the intended learning outcomes for each course, aligning them with the overall program's learning objectives and industry needs. The institution ensures the availability of appropriate learning resources, including textbooks, reference materials, digital resources, laboratory equipment, and technological tools. Assessment methods are thoughtfully designed to align with course objectives and effectively gauge students' achievement of the desired learning outcomes. These methods encompass a variety of tasks such as assignments, projects, presentations, and practical exams, catering to diverse learning styles and goals, thus ensuring a comprehensive and equitable evaluation process. To monitor curriculum delivery and student progress, faculty maintains records of curriculum frameworks, lesson plans, assessments, and student outcomes. This documentation aids in evaluating teaching strategies' effectiveness, identifying areas for improvement, and maintaining accountability. Continuous professional development opportunities are provided to teachers and staff, enhancing their instructional skills, curriculum knowledge, and effective use of teaching methodologies. Regular evaluations, including formative and summative assessments, provide valuable feedback on student learning. Input from students, teachers, industry professionals, alumni, and academic experts is actively collected and considered for ongoing improvements. The institution has established a systematic approach for gathering, analyzing, and applying this feedback to drive continuous enhancements in the curriculum. This process involves routine feedback collection through surveys, meetings, and discussions, followed by meticulous analysis and subsequent adjustments to the curriculum to align with student needs and industry standards. Engaging various stakeholders helps identify curriculum gaps and ensures its relevance to industry requirements. To bridge these gaps, the institution organizes add-on courses that align with emerging industry trends. Students gain real-life experience through internships and industrial visits, while guest lectures by industry and academic experts provide valuable insights. Workshops and training sessions enhance students' skills, and soft skill development programs improve interpersonal skills and overall personality development. Additionally, the institution promotes holistic development through various sports and cultural activities.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Electronic Components and Arduino Programming	Nil	30/08/2019	5	Employability	Fostering expertise in hardware-software integration and enabling innovative



Aptitude Preparatory course	Nil	20/07/2019	6	Employability	project creation. Cultivates critical thinking and problem-solving abilities
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## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	NIL	Nil
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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 Science and Engineering	25/06/2019
BE	Electrical Engineering (Electronics and Power)	25/06/2019
BE	Electronics and Telecommunication Engineering	25/06/2019
BE	Information Technology	25/06/2019
BE	Mechanical Engineering	25/06/2019
ME	Computer Engineering	25/06/2019
MBA	Marketing	25/06/2019
MBA	Human Resource Management	25/06/2019
MBA	Corporate Global Finance	25/06/2019
MBA	Service Marketing	25/06/2019

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

	Certificate	Diploma Course
Number of Students	245	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
Soft Skill Enhancement programme for BE 1st Year- Are job Training	19/09/2019	364
Soft Skill Enhancement programme for BE 2nd Year- Self Awareness	12/07/2019	340

Soft Skill Enhancement programme for BE 2nd Year- Video Mirrorings	30/01/2020	216
Soft Skill Enhancement programme for BE 3rd Year- Get that Job	29/08/2019	332
Course on Product Design Development	30/07/2019	60
Management Of New Products And Services	29/07/2019	10
Forein Language Classes- Japanese Langugae Course(N5-JLPT)	01/08/2019	35
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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 Science and Engineering	31
BE	Electrical Engineering (Electronics & Power)	86
BE	Electronics and Telecommunication Engineering	30
BE	Information Technology	64
BE	Mechanical Engineering	34
MBA	MBA	101
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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
<p>The institution has a structured approach to collecting and analyzing feedback from various stakeholders, including students, alumni, employers, and parents. Students Feedback: In each semester, the institute collects oral feedback from students regarding teaching and learning. This feedback is gathered by both an internal committee and an external agency. Additionally, computerized feedback is collected using in-house developed software. The feedback is shared and discussed with the subject teachers by the respective heads of the department. Furthermore, feedback on various facilities in the institute, such as the</p>

hostel, mess, canteen, library, and administration, is obtained during the student council meetings. Besides this, student feedback is also collected regarding the curriculum. Student feedback on support services like career counselling, mental health services, and academic advising is also obtained

**Alumni Feedback:** The institute organizes an annual alumni meet where feedback is solicited from alumni about the institutes facilities. Suggestions and contributions for the overall development of the institute are welcomed. Alumnis views regarding the curriculum are recorded, and suggestions are requested from them for any modifications to the curriculum. The alumni feedback is carefully analysed, and necessary measures are taken based on the feedback received.

**Employers Feedback:** The institute actively collects feedback from employers regarding the technical competency and soft skills of students, as well as the facilities provided by the institute. Additionally, feedback regarding the curriculum is gathered from employers as they provide insights into recent industry trends. Based on the feedback received, appropriate measures are taken to improve the system and align it with employers expectations.

**Parents Feedback:** An annual Parents Meet is organized by the institute, during which feedback is gathered from parents regarding the teaching-learning process and the facilities offered by the institute. The feedback provided by parents is thoroughly analyzed, and necessary measures are implemented accordingly.

**Faculty Feedback:** Feedback is collected from faculty members, seeking their suggestions regarding the curriculum. The collected feedback is carefully analysed and evaluated to identify areas for improvement. Through this analysis, the institution identifies its strengths and weaknesses .Any suggestions given by stakeholders regarding the curriculum are communicated to the Board of Studies Amravati University for inclusion in the curriculum.

## 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
BE	Computer Science and Engineering	60	70	70
BE	Electrical Engineering (Electronics and Power)	60	64	64
BE	Electronics and Telecommunication Engineering	120	135	135
BE	Information Technology	60	67	67
BE	Mechanical Engineering	60	63	63
ME	Computer Engineering	18	7	7
ME	Electrical Power System	18	3	3
ME	Digital	30	2	2

	<b>Electronics</b>			
<b>ME</b>	<b>Advanced MFG Mechanical System Design</b>	<b>24</b>	<b>8</b>	<b>8</b>
<b>MBA</b>	<b>Master of Business Administration</b>	<b>60</b>	<b>65</b>	<b>65</b>
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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
<b>2019</b>	<b>1598</b>	<b>165</b>	<b>92</b>	<b>13</b>	<b>105</b>

## 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
<b>105</b>	<b>105</b>	<b>18</b>	<b>27</b>	<b>0</b>	<b>17</b>

[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)

Shri Sant Gajanan Maharaj College of Engineering, Shegaon, has established a well-defined and effective mentoring system with the primary objectives of instilling discipline, punctuality, and motivation among the students. This system offers reliable and comprehensive support to inspire students and keeps parents informed about their wards performance and regularity. The details of the mentoring system are outlined as follows: Each faculty member in the department takes on the role of a mentor for a group of 18-20 students. These same students maintain the same mentor throughout their entire graduation period. Mentors and mentees engage in regular one-on-one meetings or group sessions. These meetings provide mentees with opportunities to discuss their academic progress, challenges, goals, and aspirations. Mentors actively listen to their grievances and work towards resolution. Mentors maintain a mentor diary in which they record all the minutes of the meetings. They also take on the responsibility of transferring the core values of the institute to their mentees. Mentors closely monitor their mentees academic performance, periodically reviewing attendance records and addressing any lapses with the competent authority. Mentors also review examination results and offer necessary guidance to help mentees catch up if they are falling behind. Moreover, mentors offer guidance, share their experiences, provide feedback, and assist mentees in navigating their academic journey. This assistance includes helping mentees understand course requirements, select appropriate classes, and develop effective study strategies. Mentors may provide subject-specific guidance, recommend resources, or offer tutoring support. Additionally, mentors aid mentees in exploring career options, developing professional skills, and navigating internship or job search processes. They provide insights into industry trends, networking opportunities, interview preparation, and mentorship for specific career paths. Mentors actively support mentees in developing essential life skills, fostering self-confidence, and managing personal challenges. They offer guidance on time management, stress management, work-life balance, and overall well-being. Mentors ensure that mentees are well-acquainted with the values and policies of the institute. To ensure the continued success of the mentoring system and identify areas for improvement, the Principal and Dean of Academics conduct periodic evaluations. The mentoring relationship is maintained throughout the entire duration of the mentees academic journey.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1763	105	1:17

## 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
104	105	0	0	20

### 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
2020	Dr. S. R. Paraskar	Professor	Conferred with Lifetime Membership of "Academic Industry Innovation Research Engineering Association (AIIREA)
2020	Dr. S. R. Paraskar	Professor	Member, BOS-Electrical Engg Sant Gadge Baba Amravati University, Amravati
2020	Mr. S. S. Jadhao	Assistant Professor	Reviewer, Turkish Journal of Electrical Engineering Computer Sciences. Turkey.
2020	Mr. S. S. Jadhao	Professor	Reviewer for Biomedical Signal Processing and Control- Elsevier journal, SCI Indexed.
2019	Prof. A. S. Manekar	Assistant Professor	Editor at the International Journal of Research in Computer Information Technology (IJRCIT) e-ISSN: 2455-3743.
Nil	Prof. A. K. Shahade	Assistant Professor	Editorial and Reviewer Board Member at the International Journal for

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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	10161210	I	04/01/2020	30/01/2020
BE	110135610	II	14/12/2019	15/01/2020
BE	110124210	III	14/12/2019	15/01/2020
ME	110134310	Iv	30/05/2020	25/08/2020

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Shri Sant Gajanan Maharaj College of Engineering in Shegaon is affiliated with SGBAU and closely adheres to the syllabus prescribed by the University, incorporating various introduced reforms. For undergraduate (UG) courses, the internal theory assessment marks (15M) consist of two class tests (10M) and an assignment (5M). The institution has introduced various components such as tutorials, quizzes, open-book tests, and new experiment development to assess students learning levels. Additionally, mini-projects and case studies are incorporated to promote teamwork and foster innovative thinking. Students engage with these components throughout the semester, which helps them maintain focus, stay engaged with the subject, and enhance their learning capabilities. Evaluation for these components is conducted by the respective course teacher based on predefined rubrics. Moreover, the institution has introduced online assessment platforms and tools to ensure efficient and secure evaluation. This includes online quizzes, automated grading, and plagiarism detection to maintain academic integrity. The institution has also aligned its CIE system with specific learning outcomes for each course, ensuring that assessments measure whether students have achieved the intended educational goals. The class test question paper covers various learning levels and course outcomes (COs). In cases where a student misses a test due to medical reasons or other legitimate circumstances, retests are conducted. Term work, including laboratory practical's, is continuously assessed at the institute level and is worth 20 marks. Students are evaluated based on different parameters as defined by the rubrics. Additionally, a lab test is conducted to provide students with prior experience for university practical examinations. Project progress is regularly monitored by each department in both semesters. The CIE system extends beyond the classroom by involving external experts or industry partners in assessing students practical skills or project work, providing real-world feedback. For postgraduate (PG) courses, the assessment pattern comprises 20 marks for internal assessment and 80 marks for external assessment. The internal assessment is based on two class tests and an assignment. Furthermore, the institute regularly updates performance parameters to ensure accurate and up-to-date monitoring of student progress.

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

Creating and adhering to an academic calendar for conducting examinations and managing other related matters is crucial for the smooth functioning of the institution. The institute has the practice of preparing the academic calendar, ensuring uniformity in the functioning of the institute across all academic programs. This practice provides valuable academic flexibility for both students and faculty members. The process of preparing the academic calendar typically begins several months before the start of the academic year. Key stakeholders, including the Principal, Dean Academics, Dean Exams, Heads of Departments, faculty members, and relevant committees, come together to discuss and outline the important dates and events for the upcoming year. Since the institute is affiliated with Sant Gadge Baba Amravati University, the institutes calendar aligns with the universitys calendar. The identification of key dates and events to include in the academic calendar is a critical step. These include student registration, class tests, project progress monitoring, holidays, technical events, guest lectures, parent meetings, alumni gatherings, co-curricular and extra-curricular activities, and other significant academic or administrative events. Adequate time is allocated for students to prepare for examinations and complete assignments. Once the initial draft of the academic calendar is prepared, it is shared with relevant stakeholders for review and feedback. This includes deans, HODs, faculty, and administrative staff. Feedback and suggestions are carefully considered, and any necessary revisions are made. The final version of the academic calendar is then subject to approval by the Principal. After approval, the academic calendar is published and communicated to all stakeholders. This is accomplished through the institutions website and official communication channels such as email. Throughout the academic year, the institute diligently adheres to the schedule outlined in the academic calendar. Faculty members and the administrative office plan their activities and organize examinations and related matters in accordance with the designated dates. Faculty members prepare lecture plans for their subjects according to the academic calendar. Continuous monitoring of the calendar helps identify any necessary adjustments or rescheduling due to unforeseen circumstances. Overall, this well-structured process of preparing and adhering to the academic calendar ensures effective coordination and management of academic activities within the institution.

## 2.6 – Student Performance and Learning Outcomes

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

[https://www.ssgmce.ac.in/page\\_details.php?page\\_id=55&department\\_id=4](https://www.ssgmce.ac.in/page_details.php?page_id=55&department_id=4)

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
110124210	BE	Computer Science and Engineering	73	73	100
110135610	BE	Electrical Engineering (Electronics & Power)	62	62	100
110137210	BE	Electronics and Telecomm	138	138	100



		unication Engineering			
110124610	BE	Information Technology	65	65	100
110161210	BE	Mechanical Engineering	74	74	100
110124510	ME	Computer Engineering	10	1	10
110134310	ME	Digital Electronics	2	2	100
110129210	ME	Electrical Power System	7	4	57
110190710	ME	Advanced MFG Mechanical System Design	5	3	60

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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://www.ssgmce.ac.in/uploads/AQAR/SSS-2019-20\\_report\\_institute.pdf](https://www.ssgmce.ac.in/uploads/AQAR/SSS-2019-20_report_institute.pdf)

## 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
Industry sponsored Projects	50	M Nand Industries, Akola.	0.66	0.66
Industry sponsored Projects	50	Omkar tools pvt ltd, Aurangabad	1.44	1.44

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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
Seminar on Business Intelligence analytics Mr. Anand Kolharkar Mr. Kedar Puranik Opinion Group Pune	Computer Science and Engineering	12/07/2019
Seminar on "Opportunities for Electrical Engineers	Electrical Engineering (Electronics and Power)	03/02/2020



in Robotics" delivered by Mr. Chaitanya Gore (Robotics Engineer, Kuka Robotics Ltd, Pune).		
Seminar on "Need of Electronics in Industry" by Mr Choudhary , MD-Nashik Centre Nashik	Electrical Engineering (Electronics and Power)	14/09/2019
A workshop on "ETHICAL HACKING" by Ajinkya Lohakpure CEO Ditto Security, Mumbai	Information Technology	04/03/2020
Hands on workshop on Introduction on casting by Er. Vijay Kumar Bhambri Industrial Expert, Nagpur.Contact no. 91-8390747081.	Mechanical Engineering	30/07/2019
Two days workshop on Research Methodology by Dr Manesh Kokare	Electronics and Telecommunication Department	02/08/2019
Three Days Entrepreneurship Awareness Camps	Entrepreneurship Development Cell, Shri Sant Gajanan Maharaj College of Engineering , Shegaon	20/09/2019
Seminar on Product Development Mr. Kamlesh Pande Ex VP, Mahindra Mah and Ex Prof, IIT Pawai .Contact No. 9823035442	Mechanical Engineering	07/02/2020

### 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
National Level Competition Code Ninja Hunt	Sahil Mune , Sachin Nair and Rajat Ninawe	Nitor Infotech Pune	15/01/2020	Students
Participated in Team KPIT SPARKLE 2020 Recognize as a Emerging Innovator Under the Theme of " Mobility and Energy for Future" most innovative mind Across 29 states of India	Jayashri Ingale	KPIT SPARKLE 2020	15/01/2020	Students
Amravati Startup Business Plan	Pratik Thorat	Government of Maharashtra State	05/09/2019	Student

Competition - 2019	Innovation Council, SGBAU Development of Innovation, Incubaation and Rentrepreneursh ip Center, and DTE Maharashtra State
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
01	Shri Gajanan Innovation And Research Center-Technology Business Incubator Foundation(SGI ARC-TBI Foundation)	Shri Sant Gajanan Maharaj College of Engineering (SSGMCE), Shegaon	SSGM Electronics Solutions Pvt. Ltd	Electronic Product Development	01/08/2018
01	Shri Gajanan Innovation And Research Center-Technology Business Incubator Foundation(SGI ARC-TBI Foundation)	Shri Sant Gajanan Maharaj College of Engineering (SSGMCE), Shegaon	Citiscreen	Mobile Adv ertisement	01/01/2019

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**3.3 – Research Publications and Awards**

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	0

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

Name of the Department	Number of PhD's Awarded
Electrical Engineering (Electronics and Power)	1
Electronics and Telecommunication Engineering	2
Mechanical Engineering	2

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

Type	Department	Number of Publication	Average Impact Factor (if
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			any)
National	Applied Sciences and Humanities	2	Nill
International	Computer Science and Engineering	2	Nill
International	Electrical Engineering (Electronics and Power)	1	Nill
International	Electronics and Telecommunication Engineering	9	0.98
International	Information Technology	14	Nill
International	Mechanical Engineering	2	6.63
International	Master of Business Administration	2	Nill
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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
Computer Science and Engineering	2
Electrical Engineering (Electronics and Power)	3
Electronics and Telecommunication Engineering	2
Master of Business Administration	2
Applied Sciences and Humanities	3
Information Technology	2
Mechanical Engineering	3
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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
A Deep Learning based Web Security Mechanism for Detection of Web Application	Dr.N.M.K andoi	International Journal of Emerging Technologies and Innovative Research(JETIR)Volum	2019	Nill	Shri Sant Gajanan Maharaj College of Engineering Shegaon0	Nill

Attacks and Phishing URLs		e 6   Issue 6   2019-06-05 (ISSN: 2349-5162)Page No : 1363-1371				
A survey on MRI brain Cancer Classification Technique	Dr.D.R.D hotre	Journal of Emerging Technologies and Innovative Research(ISSN:2349-5162)volume 6 Issue 6,June 2019	2019	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon	Nil
HPSOSSA: Enhancement of Dynamic Stability by Optimal Placement of UPFC	Dr. S.R. Paraskar	Journal of Computational Mechanics, Power System and Control Resbee Publishers, Vol.2 No.2 2019	2019	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon	Nil
Modelling simulation of Proposed 25KW Solar PV Power Plant for SSGMCE, Shegaon	Prof. R.S.Pote	IJSRD - International Journal for Scientific Research Development   Vol. 7, Issue 03, 2019   ISSN (online): 2321-0613	2019	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon	Nil
Automated e-billing and power control system through power line communication	Nishigan dha S. Bhange, D.L. Bhombe Dr. D.D. Nawgaje	Global Journal Of Engineering Science And Researches, ISSN 2348 - 8034, Impact Factor- 5.070, 135-141	2019	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon	Nil

Feature Extraction in Retinal Images using Automated Methods	Pravin Wankhede and Kamlesh Khanchandani	International Journal of Scientific Technology , Vol 9, Issue 3 March 2020 Scopus	2019	Nil	Shri Sant Gajanan Maharaj College of engineering Shegaon	Nil
International Journal of Advanced Innovative technology in Engineering (IJAITE), Vol. 5, Issue 3	Jigar Wakhariya, Prakhar Gangrade, Pushkar Jaodand, Ashish Bhagwat, Amitkumar Manekar	Chatbot For Ssgmce Website	2019	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon	Nil
Innovation-Driven Business Case of Hanuman Vitamin	H. M. Jha Bidyarthi, S. M. Mishra, M. A. Dande, P. M. Kuchar A. K. Shrivastava	Journal of Business Administration Research, Sciedu Press, vol. 8(2), pages 30-36, October	2019	Nil	Department of Business Administration and Research, Shri Sant Gajanan Maharaj College of Engineering, Shegaon	Nil

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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
A Deep Learning based Web Security Mechanism for Detection of Web Application Attacks and Phishing URLs	Dr.N.M.K andoi	International Journal of Emerging Technologies and Innovative Research(JETIR)Volume 6   Issue 6   2019-06-05 (ISSN: 2349-5162)Page No : 1363-1371	2019	0	Nil	Shri S

Survey on Om Meditation: Its Effects on the Human Body and Om Meditation as a Tool for Stress Management	B. P. Harne, Anil S. Hiwale, Azra A. Tahseen, R S Dhekekar	Psychological Thought ISSN : 2193-7281 DOI :10.5964/psyct.v12i1.275	2019	5	20	Shri Sant Gajanan Maharaj College of Engineering Shegaon
200W Ku band GaN HEMT Power Amplifier for Satellite Communication	Vivek V. Ratnaparkhi, Anil S. Hiwale	International Journal of Scientific Technology Research Scopus Vol. 08 ISSN 2277-8616 Scopus	2019	2	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon
Creation Of Dashborad For Financial Accounting In SAP	Tanashri Gothe, Shital Hanwate, Sahil Lunawat, Prof. P. V. Kale, Prof. T. P. Marode	International Journal of Advanced Innovative Technology in Engineering (IJAITE), Vol. 5, Issue 3	2019	0	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon
Automobile Billing and Management System	Chandrakant Mahure, Gaurav Ghogale, Kunal Petkar, Vivek Kaware, Prof. Faizan Khandwani	International Journal of Research in Computer Information Technology (IJRCIT), Vol. 5, Issue 2	2020	0	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon
A Comparative Study on Web Framework Technology	Prof. Aniket Shahade	International Journal of Research in Computer Information Technology (IJRCIT), Vol. 5,	2020	0	Nil	Shri Sant Gajanan Maharaj College of Engineering Shegaon

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	2	72	0	6
Presented papers	11	3	Nil	Nil
Resource persons	Nil	Nil	2	Nil

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## 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
Tobacco Free Abhiyan	NSS	3	100
Tree Plantation Drive	NSS	3	100
Cleanness Drive	NSS	3	100
Blood Donation Camp	NSS	3	100
Shramdan at village	NSS (Shramsanskar Shibir)	3	100
Computer Literacy Abhiyan	NSS (Shramsanskar Shibir)	3	100

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## 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
NSS	District level Best Program Officer Award	Sant gadge Baba Amravati University	200

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## 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
NSS	Adopted village Kherda NSS Unit	Tobacco Free Abhiyan	4	100
NSS	Adopted	Tree	3	100

	village Kherda NSS Unit	Plantation Drive		
NSS	Adopted village Kherda NSS Uni	Clealiness Drive	2	100
NSS	Adopted village Kherda NSS Uni	Computer Literacy Abhiyan	2	100
NSS	Adopted village Kherda NSS Uni	Waste Water Management	2	100
NSS	Adopted village Kherda NSS Uni	Water Conservation	2	100
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### 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
Research	1	self	90
Research	4	self	180
Research	2	self	180
Research	3	self	90
Research	5	self	395
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#### 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
Internship srch	Web Development	Cluebix Software Pvt. Ltd. Email: info@ cluebix.com, Contact: 8308119449	07/01/2020	15/02/2020	1
Internship srch	Managerial Skills	EndressHau ser Pvt. Ltd. Aurangabad Email: Charu dutt.mushrif @endress.com , Contact: 02402563600	13/01/2020	02/12/2020	2



Interns	Graphic Designing	Creator Desire Solutions, Indore Email :info@creatorsdesire.in Contact: 074703 67385	11/06/2019	30/07/2019	1
Interns	/Ux design MarketinUIg	DeMenew Tech Pvt. Ltd. Hyderabad Email: contact@demenew.com Contact: 9133330125	28/03/2019	13/07/2019	1
Industrial Visit	Industry Visit to MindScripts Technologies , Pune and Jade Global, Pune	MindScripts Technologies , Pune Phone: Email: Jade Global, Pune Phone: Email:	23/02/2020	27/02/2020	39
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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
Opine Group	13/07/2019	Faculty Visits, Training Web based modules	113
IBM India Pvt. Ltd. , Pune	19/01/2019	Placement Internship Lab Development Project	6
Pi Square Digital Solutions Pvt. Ltd., Pune	19/01/2019	Placement Internship Lab Development Project	13
M/s Dynalog (India) Pvt. Ltd., Pune	08/08/2019	To enhance the skills of student in the areas of Power Electronics, Smart Grid, Control and Instrumentation and Microprocessors Microcontrollers. It will also facilitate seminars, workshops, internship and sponsored projects	3

		for the students.	
Integral Power Solutions Pvt.Ltd., Nashik	02/02/2019	Training	4
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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
128.96	39.63

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
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### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SLIM Library Software	Fully	3.9.0.35737	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	52214	10789576	247	127449	52461	10917025
Reference Books	24366	7137314	305	224530	24671	7361844
Journals	Nill	Nill	93	267082	93	267082

Digital Database	Nil	Nil	275	662094	275	662094
CD & Video	2068	418660	4	Nil	2072	418660
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Prof.N.M.Kandoi	TOC	PPT	01/07/2019
R S Kankale	HVE	OBS Studio	01/04/2020
B S Rakhonde	EM	Microsoft Team	01/04/2020
P R Bharambe	CAD	Microsoft Team	01/04/2020
Prof. K D Gadgil	Virtual Lab for Course refrigeration and Air conditioning	Virtual Lab IITBombay	17/09/2019
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#### 4.3 – IT Infrastructure

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

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	627	337	627	31	40	74	145	165	0
Added	0	0	0	0	0	0	0	0	0
Total	627	337	627	31	40	74	145	165	0

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

165 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
computers, laptops, tablets	<a href="https://www.ssgmce.ac.in/IOAC_ecf.php">https://www.ssgmce.ac.in/IOAC_ecf.php</a>
Cameras and microphones	<a href="https://www.ssgmce.ac.in/IOAC_ecf.php">https://www.ssgmce.ac.in/IOAC_ecf.php</a>
video editing software,	<a href="https://www.ssgmce.ac.in/IOAC_ecf.php">https://www.ssgmce.ac.in/IOAC_ecf.php</a>
Multimedia Equipment:	<a href="https://www.ssgmce.ac.in/IOAC_ecf.php">https://www.ssgmce.ac.in/IOAC_ecf.php</a>
Website	<a href="https://www.ssgmce.ac.in/">https://www.ssgmce.ac.in/</a>
OBS Studio	<a href="https://www.youtube.com/watch?v=Y1lrnkExNck">https://www.youtube.com/watch?v=Y1lrnkExNck</a>
Practical Conduction demo video lecture	<a href="#">Practical Conduction demo video lecture</a>

**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
302.18	315.52	234.56	111.9

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)

The institution boasts ample infrastructure and facilities to support teaching, learning, the curriculum, and extracurricular activities. It possesses excellent physical amenities, including residential and academic buildings, a library, laboratories, hostels, a yoga and meditation center, indoor and outdoor sports facilities, and more. The college is well-equipped to cater to academic, research, co-curricular, and extracurricular needs. The institute has established clear procedures for maintaining physical equipment, with standard operating procedures in place for the upkeep and utilization of academic and support facilities. The physical facilities for academic activities encompass e-classrooms, laboratories, workshops, research labs, meeting and drawing halls, the Central Digital Library, the Communication Skills Lab, and facilities for training and the Placement Cell. The institute also provides comprehensive sports and games facilities, including a gymnasium, badminton court, table tennis court, skating hall, cricket and football grounds, volleyball and basketball courts, as well as a tennis court. Additional amenities on campus comprise a medical dispensary, an ATM, a student consumer and cooperative store, five hostels for boys and three for girls, residential facilities, and an ambulance service. Efficient Utilization and Maintenance: The college makes effective and optimal use of its infrastructure, employing classrooms and laboratories for regular academic theory, practical's, research, remedial classes, various training programs, and value-added courses. Each laboratory is managed by an assigned team consisting of an in-charge, assistants, and attendants, ensuring that all laboratory activities and maintenance are carried out efficiently. The institute maintains a state-of-the-art central library that remains open during night hours and holidays during exam periods. The management of indoor and outdoor sports activities, along with their maintenance, falls under the responsibility of the Sports Director and their team. The institutes on-grid solar power station of 100 KVA, as well as the 320 KVA substations, guarantees uninterrupted power supply on campus, with electrical and solar power plant maintenance handled by the designated in-charge and their team following any reported issues. A computer maintenance section, led by a maintenance engineer and their team, takes care of all computer-related equipment within the institute. Networking, internet, and server management are overseen by the Data Center (DC), headed by an in-charge and their team. A fully-fledged Building and Construction (BC) department, under the leadership of an in-charge, ensures the maintenance and construction of the entire institute, keeping all civil facilities in working condition. This department manages civil services for all physical facilities, including staff quarters, hostels, academic and administrative buildings, and sports facilities. The college follows a policy of annual budgeting and review to enhance its infrastructure, with departmental requirements submitted before the annual budget meeting at the institutional level.

**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	Merit Scholarship	372	1485350
Financial Support from Other Sources			
a) National	Rajarshi Chhatrapati Shahu Maharaj Shikshan Shulkh Shishyavrutti Yojna(EBC))	213	10104379
b)International	Nil	Nil	Nil

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## 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
Soft Skill Enhancement programme for BE 1st Year- Overcoming fear and Anxiety	04/02/2019	340	SK Associates, Nashik
Soft Skill Enhancement programme for BE 2nd Year- Self Esteem	27/07/2019	285	SK Associates, Nashik
Remedial Coaching	29/08/2019	40	ASH Department SSGMCE
English Communication	19/08/2019	300	Prof Jaya Kale Akola
Yoga	13/06/2019	120	Mrs Sneha Gachake SSGMCE ,Shegaon

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## 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	Awareness program for Competitive	135	Nil	Nil	Nil

	Exams (MPSC, UPSC) by Mr. Vikas Girase, Unique Career Academy Pune				
2019	Higher Studies (MBA, CAT, GRE) by Mr. Amol Agrawal, Director, T.I.M.E (Akola Branch),	135	Nil	Nil	Nil
2019	Career Opportunities and Future Prospectus in Engineering by Mr. Ritesh Mundhada, T.I.M.E (Akola Branch)	135	Nil	Nil	Nil
<a href="#">View File</a>					

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
0	0	0

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Value Momentum Software Services Pvt. Ltd., Hyderabad	174	27	Casepoint Pvt.Ltd., Surat	17	3
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students	Programme graduated from	Department graduated from	Name of institution joined	Name of programme
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	enrolling into higher education				admitted to
2020	1	B.E Co	Computer Science and Engineering	Balaji Institute of Telecom and Management, Tethwade, Pune	PGDM
2020	1	B.E Computer Science and Engineering	Computer Science and Engineering	SVKM's NMIMS University	PGDM
2020	1	BE Electrical (Electronics & Power)	Electrical Engineering	GCOE Amravati	M. Tech in Electrical Power System
2020	1	B.E. (Electronics and Telecommunication Engg.)	Electronics and Telecommunication Engineering	VNIT, Nagpur	M.Tech in Communication System Engineering
2020	1	B.E Mechanical Engineering	Mechanical Engineering	Ramdeo Baaba College of Engineering, Nagpur	MBA
2020	1	BE Information Technology	Information Technology	Katz School of Science and Health, Yeshiva University	Artificial Intelligence (MS) Degree

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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
<b>GATE</b>	5

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

Activity	Level	Number of Participants
<b>Culfest</b>	Institution	325
<b>Dahihandi</b>	Institution	320
<b>Youth Festival</b>	University	35
<b>Badminton</b>	University	10
<b>Cricket tournament</b>	University	32
<b>Basketball</b>	University	12

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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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Boxing (W) 51 kg-Third	National	1	Nil	306179	Shrushti Lade
2019	Boxing (W) 60 kg-Third	National	1	Nil	306241	Gayatri Raghuvanshi
2019	T. T. (M) Team Runner-up	National	1	Nil	304560	Swatejku mar Sawale
Nil	Chess (W) Second	National	1	Nil	305198	Sharayu Wakode
Nil	Classical Dance	National	Nil	1	304410	Vaidehi Gawande
Nil	Song Indian	National	Nil	1	305725	Shatakshi Deshmukh

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The primary objective of the Student Council at our institute is to work for the betterment of the student community. It functions as a platform where students can express their opinions and concerns. The Student Council is committed to identifying and addressing issues that affect students, fostering a positive atmosphere within the institute. Its members include representatives from each class, professional bodies, student chapters, hostels, sports, and cultural committees. Internal Quality Assurance Cell: The Internal Quality Assurance Cell, benefits from the active participation of students. They play a crucial role in ensuring that quality initiatives are effectively implemented through continuous reviews and regular meetings. Student representatives provide valuable feedback on various student-related matters, contributing to the enhancement of the institutes functioning. Professional Bodies and Departments Student Chapters: Within professional bodies like ISTE and IEEE, as well as various student chapters, students take on active roles by organizing a wide range of activities, technical events, and quizzes for their peers. These initiatives serve to enrich the educational experience for all students. College Magazine Committee (Tatwadarshi): Student representatives, carefully selected by the editorial board, play a pivotal role in collecting content such as articles, poems, and artwork from fellow students. They are responsible for the composition, editing, and the production of newsletters at the department level, as well as the preparation of magazines at the college level. Faculty members from the editorial board provide guidance throughout the entire publication process. Cultural Committee: Our institute hosts several annual events, including a cultural festival, the First Year Inaugural function, and the Farewell function, all of which are organized through the Cultural Committee. This core committee comprises student representatives from various departments who work closely with faculty members to ensure the successful planning and execution of these events. NSS Committee: Students at our



institution actively engage with and contribute to society. The NSS Committee oversees various programs, including NSS Camps and blood donation drives, which are organized by dedicated student volunteers. Their commitment to social causes is commendable. Sports Committee: Student volunteers play a crucial role in assisting the Physical Education Director in organizing both intra-college and intercollegiate team sports events. Their involvement helps promote a vibrant sports culture within the institute. Anti-Ragging Committee: Student representatives play a significant role in reporting cases of ragging, fostering harmony among students, and preventing incidents of ragging on campus. Anti-Sexual Harassment Committee: This committee includes female students and faculty members, and student members support the coordinator in addressing issues related to sexual harassment, ensuring a safe and respectful environment for everyone.

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni Association of Shri Sant Gajanan Maharaj College of Engineering, Shegaon, operates under the name MAJI VIDDARTHI BAHUUDDESHIYA SANSTHA, SSGMCE (Registration No. F\_10852, Buldhana) and functions with a well-defined set of objectives. First and foremost, it seeks to create a robust network among alumni, forging strong connections among those who have graduated from the institution. By nurturing a sense of community and affinity with the college, the association aims to solidify the enduring bond between former students and their academic alma mater. Moreover, the Alumni Association provides a platform that facilitates professional networking and career development opportunities for its members. It enables alumni to connect on a professional level, explore potential collaborations, and share experiences that can enrich their careers. A significant aspect of the associations mission is to support the institutions growth and development through fundraising initiatives. These efforts contribute to enhancing the colleges facilities and resources, ultimately benefitting current and future students. In addition to this, the Alumni Association keeps its members well-informed about the colleges current state and its vision for the future, ensuring that alumni remain engaged and aware of the institutions progress. Distinguished alumni are acknowledged and celebrated for their remarkable achievements, serving as inspirational figures for others to follow in their footsteps. The association also actively involves current students, providing them with valuable opportunities to interact with alumni, receive mentorship, and gain insights into their respective fields of interest. Furthermore, the Alumni Association serves as a catalyst for alumni to reconnect with old friends and classmates, fostering a sense of camaraderie and nostalgia. It encourages alumni to contribute back to their alma mater, not only through financial means but also through their time, expertise, and resources, thereby strengthening the institutions foundations. Lastly, the association creates an educational space where alumni can share their knowledge, skills, and expertise with current students and faculty through workshops, seminars, and various knowledge-sharing initiatives. In conclusion, the Alumni Association plays a pivotal role in bridging the gap between the college and its alumni, fostering professional growth, philanthropic endeavors, and the exchange of knowledge among its members.

5.4.2 – No. of enrolled Alumni:

11323

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

362061

**CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT****6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The institute is working under the framework of AICTE, DTE, and Sant Gadge Baba Amravati University, Amravati. The vision and mission of the institute have been decided with active participation from the Principal, HODs, Dean, Alumni, Industry Personnel, employers, parents, faculty members, and students. The Principal, in consultation with the management, sets the direction towards fulfilling the vision and mission through a perspective plan. The institutions policy believes in the involvement of all staff members in decision-making and implementing decentralised decision policies. The institute encourages participative management by involving faculty members in problem-solving and decision-making at various levels, such as CDC, IQAC, and HOD, for the effective growth of the institute. The Principal, in coordination with HODs and senior faculty members, appoints the coordinators and members of the committee. The coordinators review the work of committees for the smooth functioning of curricular and extracurricular activities. Academic decentralisation is carried out through the Dean Academics in coordination with HODs and faculty members of various departments. Administrative decentralisation is achieved through the Registrar in coordination with office staff. Student affairs are handled by the Dean, faculty coordinators, and the student council. An interview process is used to select candidates for various posts within the Student Council. This selection committee is composed of key individuals, including the Principal, Heads of Departments (HODs), and Faculty Representatives responsible for Sports, Cultural Affairs, and NSS. Two practises of decentralisation and participative management are mentioned below: Cultural event Celebration : The Institution organizes and celebrates cultural events such as the Ganesh Festival and the annual gathering known as Culfest on an annual basis. For these events, a Chief Cultural Coordinator is appointed by the Principal, and one faculty member is selected from each department to form the Cultural Committee. This committee, in turn, selects the General Secretary (GS) and Girls Representative (GR) through a thorough interview process. The faculty coordinators, GS, and GR then collaborate to choose the remaining members of the Cultural Committee. Once the committee is formed, various cultural events, including the Ganesh Festival, Dahihandi celebrations, and the annual gathering Culfest, are organized. These events feature cultural performances such as classical dances and music shows. The Ganesh Festival concludes with a grand procession for the immersion of the Ganesh idol, accompanied by music, dance, and enthusiastic participation. The first step in the planning process is the activity and program planning, during which subcommittees are established by the core committee. The core cultural committee determines the budget for the events and presents it to the Principal and the management for approval. After receiving approval from both, the committee oversees all the events. Financial Budget Planning: Department heads and faculty members actively participate in the budget planning process. All faculty members collaborate to collectively identify the needs and requirements for laboratory resources and subsequently submit departmental budget proposals to secure funding for academic and research activities. Once approval is obtained from the management and the Principal, the department submits the requested budget.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 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
Human Resource Management	<p>The institute adopts an entry-level selection process to maintain the quality of staff appointments. To continually enhance the staffs quality, periodic orientation programs and faculty development programs are conducted. Staff members are actively encouraged to both organize and participate in various developmental activities such as FDPs (Faculty Development Programs), short-term courses, workshops, seminars, and conferences to continually improve their skill sets. In addition, faculty members are strongly motivated to pursue higher studies to further their knowledge and expertise. The institute has implemented a performance-based appraisal system, complemented by an automated feedback system, to thoroughly review and assess the staffs performance. The institute has put in place a range of welfare programs and initiatives for its faculty and staff.</p>
Curriculum Development	<p>The institution, affiliated with Sant Gadge Baba Amravati University, has adopted a range of quality improvement strategies aimed at enhancing the effectiveness of its programs, particularly in curriculum development. To achieve this, a comprehensive analysis is conducted to identify gaps and areas for improvement within the existing curriculum, taking into account the needs and expectations of students, industry, and society. The curriculum development process actively engages key stakeholders, including faculty, students, alumni, industry professionals, and subject matter experts, who contribute valuable insights and perspectives. Moreover, the curriculum clearly articulates measurable learning outcomes, specifying the knowledge, skills, and attitudes that students should acquire. Regular assessments are carried out to ensure these outcomes align with the programs overarching goals.</p>
Research and Development	<p>To enhance research and development endeavours and foster a culture of research within the faculty and student body, the institution has instituted</p>

the Research and Development (RD) Cell. This cell is driven by several key objectives, which include promoting research initiatives within the institution, motivating faculty members to submit research proposals to funding agencies, and encouraging students to engage in research projects as part of their experiential learning journey. Additionally, the RD Cell is responsible for organizing and conducting capacity-building workshops. It actively supports faculty members in publishing their research findings in reputable and indexed conferences and journals. The institute provides incentive points to students for participating in various research activities.

Teaching and Learning

The institution implements a variety of strategies aimed at improving the quality of teaching and learning, ultimately enhancing the educational experience and outcomes for students. To achieve this, the institute offers faculty members opportunities for professional development and training, focusing on enriching their teaching skills and knowledge. These opportunities encompass workshops, seminars, and mentoring programs with a specific emphasis on innovative teaching techniques and strategies to engage students effectively. Faculty members actively integrate active learning methodologies into their teaching practices, including problem-based learning, case studies, group discussions, role-playing, and hands-on activities. These approaches encourage students to participate actively in the learning process, foster critical thinking, and promote the practical application of acquired knowledge. Moreover, the institution fosters student-centered learning environments that empower students to take an active role in their educational journey. This approach encourages students to engage proactively in their learning process. The institute also encourages collaborative learning experiences through group projects, team-based activities, and interactions with peers, fostering the development of essential skills such as teamwork, effective communication, and problem-solving.

Examination and Evaluation

The institution maintains a transparent and well-defined process for conducting internal class tests and evaluations. This process includes clearly established assessment criteria, the allocation of weights to various components, and the use of grading rubrics. These measures are put in place to ensure consistency and fairness throughout the evaluation process. To uphold the quality of examinations and evaluations, the institution has implemented effective systems. Regular audits of class test papers are conducted to ensure compliance with established standards and best practices. A diverse range of assessment methods, such as written exams, practical assessments, projects, presentations, assignments, quizzes, and more, are utilized to evaluate various types of knowledge and skills. These assessment methods align closely with the intended learning goals and objectives of each course. Furthermore, the institution places a strong emphasis on providing timely and constructive feedback to students regarding their performance. This feedback serves to highlight their strengths while also pinpointing areas that require improvement. Ultimately, this feedback mechanism assists students in comprehending their performance and offers valuable guidance for their ongoing learning journey.

Library, ICT and Physical Infrastructure / Instrumentation

To enhance the quality of the library, information and communication technology (ICT), and physical infrastructure, the institution has employed a variety of strategies. These strategies involve continuous assessment and updates to the library's collection to meet user needs, which include acquiring new books, journals, and electronic resources. To ensure improvement, students, faculty members, alumni, and visitors are encouraged to provide valuable feedback on library services and resources, which aids in identifying areas that require enhancement. The institution also implements a library management system and digital platforms to streamline operations, provide online services, and enhance access to resources. For ICT services, hardware, software, and

network infrastructure receive regular updates to maintain reliability and security. Strong cybersecurity measures, such as firewalls and antivirus software, are put in place to safeguard against threats and ensure the privacy of data. In terms of physical infrastructure, routine inspections, maintenance, and repairs are conducted to ensure that all facilities and equipment are in optimal working condition. Existing facilities are expanded to accommodate changing needs and technological advancements

Industry Interaction / Collaboration

The institute has established a robust industry-institute collaboration through a range of initiatives and programs. Firstly, students benefit from internships and cooperative education programs that offer them invaluable practical experience in real industry settings. These initiatives not only provide students with real-world exposure but also significantly enhance their employability upon graduation. Furthermore, the institute actively promotes collaborative research projects involving faculty, students, and industry partners. This collaborative approach fosters knowledge exchange, applied research, and innovation, effectively addressing industry challenges and yielding mutual benefits. To enrich the learning experience, industry professionals are regularly invited to deliver guest lectures, workshops, and seminars. These sessions offer insights into current industry practices, emerging trends, and practical applications, thus enhancing students understanding and skills. Moreover, industry experts play an integral role in curriculum development, ensuring that educational programs align with industry needs and standards. Additionally, the institute organizes visits to industries, job fairs, and other industry-related events to expose students to the workplace environment and career opportunities. To keep faculty members updated with industry trends and practices, opportunities for professional development are provided. This includes industry internships, sabbaticals, and industrial training programs, ultimately enhancing the quality of teaching and research. The



institutes commitment to industry collaboration extends its reach and ensures that its educational offerings remain relevant and impactful

Admission of Students

All student admissions are managed by the Directorate of Technical Education (DTE) through the Centralized Admission Process (CAP) conducted online. A significant majority, constituting 80 of admissions, are processed through CAP, with seat allocation based on candidates MHT-CET / JEE scores. The remaining 20 of admissions, conducted at the institute level, are strictly merit-based. For institute-level admissions, candidates submit their applications through the institutes website, [www.ssgmce.ac.in](http://www.ssgmce.ac.in). A merit list is subsequently generated based on these applications. Admissions are conducted transparently through counselling sessions, adhering to merit rankings. To attract high-quality students, the institute employs a combination of digital and traditional marketing strategies. Prospective students receive comprehensive information about the institution, its programs, admission prerequisites, and available resources. Additionally, dedicated support services, such as admission counselling and online chat support, are made accessible to address applicant inquiries and provide guidance throughout the admission process.

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

E-governance area	Details
<p>Planning and Development</p>	<p>The institutes admissions process is effectively managed through an E-Governance system. The Directorate of Technical Education (DTE) oversees the Centralized Admission Process (CAP), which is conducted online. A substantial majority, constituting 80 of admissions, are seamlessly processed through CAP, with seat allocation based on the candidates MHT-CET / JEE scores. The remaining 20 of admissions, managed at the institute level, strictly adhere to merit-based criteria. For institute-level admissions, candidates conveniently submit their applications via the institutes official website, <a href="http://www.ssgmce.ac.in">www.ssgmce.ac.in</a>. These applications are meticulously reviewed, resulting in</p>

the generation of a merit list. The admissions process is characterized by transparency and fairness, conducted through counselling sessions that respect the applicants merit rankings. In a bid to attract top-tier students, the institute skilfully combines digital and traditional marketing strategies. Prospective students are provided with comprehensive information about the institution, its program offerings, admission prerequisites, and available resources. Furthermore, dedicated support services, including admission counselling and readily accessible online chat support, are in place to promptly address applicant inquiries and guide them through every step of the admission process.

Administration

The college administration has implemented computerized ERP/SAP software to streamline its operations. Within this system, all academic records of students, spanning from admission to clearance, are efficiently managed online. Additionally, online communication tools such as email, instant messaging, and collaboration platforms have been adopted to foster seamless communication among staff members and various departments. These tools serve to enhance teamwork, facilitate knowledge sharing, and ultimately elevate overall productivity within the institution. The college administration has implemented computerized ERP/SAP software to streamline its operations. Within this system, all academic records of students, spanning from admission to clearance, are efficiently managed online. Additionally, online communication tools such as email, instant messaging, and collaboration platforms have been adopted to foster seamless communication among staff members and various departments. These tools serve to enhance teamwork, facilitate knowledge sharing, and ultimately elevate overall productivity within the institution.

Finance and Accounts

The college employs SAP software to effectively oversee its financial and accounting operations. Each student is assigned a unique ID through which all financial transactions are meticulously recorded. This system is utilized to



document all income and expenses at the institute level, facilitating the generation of essential financial documents such as trial balances, cash flow statements, payment scrolls, and balance sheets. Furthermore, the SAP software is customized to precisely align with the institutions distinct requirements and processes. This customization extends to the financial reporting formats and workflows, ensuring they are tailored to suit the specific needs of the college.

**Student Admission and Support**

An online platform is available for students to submit their applications electronically. This platform enables students to complete application forms, upload necessary documents, and track the progress of their application in real-time. It also provides automated notifications and updates to keep students informed throughout the admissions process. Admission criteria, guidelines, and eligibility requirements are published on the institutions website. Clear and comprehensive information is provided to prospective students, including academic requirements, application deadlines, and selection criteria. Online counselling and support services are provided to prospective and enrolled students. The admission and support processes are integrated with the institutions student information system. This enables seamless data flow and eliminates duplicate data entry. It also ensures that student records are accurately maintained and updated, facilitating effective communication and support. An online fee payment system is implemented that allows students to pay their fees securely and conveniently. Email, SMS, or online notifications are used to provide timely updates and reminders to students.

**Examination**

The institute is affiliated with Sant Gadge Baba Amravati University, Amravati. The affiliating university conducts all examinations for students. An online platform is available for students to apply for examinations. This platform allows students to register, select their desired exams, and make necessary fee payments online. An online portal is available for

publishing examination results. Students are able to access their results securely by logging into their student accounts. The portal provides detailed result reports, including individual subject scores, grade point averages, and overall performance. Internal marks of the students are made available on SIS.

### 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	Mr. P. R. Dhabe	Two days workshop on "Renewable Energy Systems: Design and Challenges" at R. H. Sapat College of Engineering, Management Studies and Research, Nashik during 9th 10th August, 2019.	Nil	2000
2019	Mr. M. R. Chavan	One week STTP on "Renewable Energy Sources" at St.Vincent Palloti college of Engineering, Nagpur during 18th to 25th November, 2019.	Nil	2000
2019	Mr V.S.Ingole	Six months FAB Lab Training at Pabal	Nil	100000
2019	Mr N.M. More	Six months FAB Lab Training at Pabal	Nil	100000
2019	Principal Shri Sant Gajanan Maharaj College of Engineering, Shegaon	Nil	CII	17700

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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	One Day Workshop on Transformer Fundamentals Testing Mr. Sunil Sarde (Retired Executive Engineer ( MAHA-DISCOM, Nagpur )	Nil	30/07/2019	30/07/2019	12	Nil
2019	Five days Workshop on "Electronic Components Arduino Programming"	Nil	30/08/2019	03/09/2019	12	Nil
2019	Evolution of Internet of Things for Industry 4.0	Nil	10/12/2019	14/12/2019	34	Nil
2019	workshop on Robotics AI	Nil	24/06/2019	28/06/2019	5	Nil
2020	Product Development	Nil	14/04/2019	18/04/2019	4	Nil
2020	Nil	Fire Extinguisher Training Programme	24/03/2020	24/03/2020	Nil	20

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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
Campus To Corporate: A Bridge Course for corporate world	1	18/05/2020	25/05/2020	7
Agent Based Intelligent System	5	04/05/2020	06/05/2020	3
Research Methodology	30	02/08/2019	03/08/2019	2
Participated in Online Faculty development program on "LaTex "	4	28/04/2020	02/05/2020	6
Three days workshop on "Research Methodology Workshop"	7	12/04/2020	14/04/2020	3
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
82	23	111	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
10	10	12

**6.4 – Financial Management and Resource Mobilization**

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

SSGMCE appointed Shri Prabhakar Risbud, a Chartered Accountant, as an auditor. He conducts audits twice in one financial year. The audit conducted by Shri Prabhakar Risbud, a chartered accountant, encompasses a comprehensive review of various financial aspects of SSGMCE. This includes examining the accuracy and completeness of vouchers, ledgers, bank accounts, cash books, and other financial records. As part of the audit process, the auditor ensures that the institutes financial operations comply with relevant laws, regulations, and accounting standards. This involves verifying adherence to applicable taxation rules, financial reporting requirements, and any other legal obligations. The auditor thoroughly examines the reconciliation of tuition fees collected from students. This involves cross-checking the fee receipts, records of student enrollments, and any adjustments or refunds made. The auditor reviews the institutes fixed assets, such as buildings, equipment, and infrastructure, to

verify their existence, valuation, and appropriate recording in the financial

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
Nutan Griha Udyog	5000	Student Activity
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

873033

## 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Expert	Yes	Principal
Administrative	Yes	Shri Prabhakar Risbud,	Yes	Principal

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

Organisation of orientation sessions for new students and their parents to familiarise them with the college, its facilities, academic programmes, and campus life These sessions help ease the transition into college and provide an opportunity for parents to meet faculty members and administrators. A parents meeting is organised with the objective of discussing academic updates, addressing common concerns, sharing important information, or seeking parent input on college initiatives. Establishing effective communication channels to keep parents informed about college activities, academic schedules, important announcements, and opportunities for parental involvement This is done through newsletters, dedicated websites, social media groups, or WhatsApp messages. Gathering feedback, suggestions, and concerns from parents regarding college policies, academic programs, or campus facilities. Feedback is analyzed, and corrective actions are taken. Many local parents offer active assistance in social and community activities.

6.5.3 – Development programmes for support staff (at least three)

Yoga and stress Management Workshop on Basics of Computer and Microsoft Office English Communication

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

Crafting a strategic plan for the upcoming academic year. Inspiring faculty to maximize ICT tool utilization. Establishing a research grant program to encourage faculty and student research. Developing specialized training programs to keep faculty updated on teaching methodologies and technologies. Increasing career guidance programs for students

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes

c)ISO certification	Nil
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	FDP on Evolution of Internet of Things for Industry 4.0	10/12/2019	10/12/2019	14/12/2019	45
2019	Seminar on "Project Management" by Mr. Madhukar Jadhav CEO, Jadhav Switchgear Services, Nashik	30/08/2019	30/08/2019	30/08/2019	125
2019	Organization of International Conference ( ICITAET-2019 )	27/12/2019	27/12/2019	28/12/2019	120
2019	Two day workshop on Research Methodology	02/08/2019	02/08/2019	03/08/2019	39
2020	Organization of Technical Event Pursuit	28/02/2020	28/02/2020	29/02/2020	350

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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
Group Discussion- gender equity in rural India- A myth?	01/09/2019	01/09/2019	118	127
Debate- Who	06/10/2019	06/10/2019	123	121

are better managers, men or women?

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

35.56

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	6
Provision for lift	Yes	6
Ramp/Rails	Yes	6
Rest Rooms	Yes	6
Any other similar facility	Yes	6

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
2019	Nil	1	26/12/2019	2	Two days workshop on Computer Fundamentals its application	Awareness regarding computer fundamental	31
2019	Nil	1	30/12/2019	2	Two days workshop on Training on Advance Technology tools	Digital Literacy	26
Nil	Nil	1	27/12/2019	2	Zeal of Loyalty	Carrier Opportunities after 12 th Science, Personality Development, Stress Management, Mathematical Tec	50

2019	Nil	10	09/07/2019	10	Community Based Learning	<p>Community Based Learning (CBL) is a mandatory activity for final semester students. They identify social issues in the nearby locality and address them. The following issues were identified and worked upon by the student groups.</p> <p>1- Organisation of Ess</p>	50
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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)
Faculty:	22/06/2010	<p>Demonstrate professionalism, integrity, and ethical conduct in all academic and research activities. Participate in ongoing professional development, keeping up with advancements in their respective fields. Maintain confidentiality and ensure fair assessment and evaluation practices. Uphold academic honesty and discourage plagiarism or any form of academic misconduct. Collaborate with colleagues and</p>



		actively participate in institutional initiatives and committees. Adhere to college policies and regulations, setting an example for students
Students	22/06/2010	<p>Demonstrate honesty, integrity, and ethical behavior in all academic and non-academic activities. Respect faculty members, staff, and fellow students, fostering a culture of mutual respect and inclusivity. Attend classes regularly, actively participate, and submit assignments and assessments on time.</p> <p>Maintain academic honesty, avoiding plagiarism and cheating. Utilize college resources responsibly and respect the colleges infrastructure and facilities. Engage in extracurricular activities and contribute positively to the college community.</p>
Supporting staff	22/06/2010	<p>Treat students, faculty members, and colleagues with respect, professionalism, and fairness. Carry out their responsibilities efficiently and effectively, providing necessary support to students and faculty.</p> <p>Maintain the confidentiality of sensitive information and respect privacy rights. Uphold ethical conduct in all administrative and support functions. Communicate clearly and professionally with stakeholders, ensuring timely and accurate information. Promote a safe and inclusive environment, addressing any concerns or</p>

		<p>grievances promptly.</p> <p>Participate in professional development activities to enhance skills and knowledge.</p> <p>Adhere to the policies and guidelines set forth by the college administration.</p>
Administration:	22/06/2010	<p>Lead by example, demonstrating ethical behavior and integrity.</p> <p>Promote transparency, fairness, and accountability in decision-making processes. Foster an environment conducive to academic excellence, innovation, and growth.</p> <p>Provide necessary resources and support for faculty, staff, and students. Establish and enforce policies and guidelines that ensure a safe and inclusive campus environment. Encourage and facilitate professional development opportunities for all stakeholders. Maintain effective communication channels with all stakeholders. Regularly assess and evaluate institutional practices to ensure continuous improvement</p>
Parents/Guardian	22/06/2010	<p>Support and encourage ward's education and academic pursuits.</p> <p>Respect and adhere to college rules and regulations. Maintain open communication with the college administration and faculty members.</p> <p>Participate in parent-teacher meetings and engage in discussions regarding their wards progress. Encourage ethical behaviour and integrity in wards academic and non-academic</p>

		activities. Support college initiatives and contribute positively to the college community.
Alumni	22/06/2010	Act as ambassadors for the college and uphold its reputation. Support and mentor current students, sharing professional experiences and expertise. Maintain contact with the college and participate in alumni activities. Uphold ethical conduct and professionalism in all interactions related to the college.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Guest Talk Bhagavad Geeta for managers by Swami Tanmayanandaji, Secretary, Ramkrushna Math, Ambikapur, Chattisgarh	11/08/2019	11/08/2019	144
Guest Talk Ancient Indian Education System by Swami Tanmayanandaji, Secretary, Ramkrushna Math, Ambikapur, Chattisgarh	12/08/2019	12/08/2019	147
Guest Talk on theory of cause and effect (theory of karma) by Swami Tanmayanandaji, Secretary, Ramkrushna Math, Ambikapur, Chattisgarh	09/01/2020	09/01/2020	149
Swami Vivekanand Jayanti	12/01/2020	12/01/2020	895
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

**Energy Efficiency Enhancements:** The institution has proactively adopted energy conservation measures by integrating state-of-the-art technologies like LED lighting and motion sensors throughout the campus. This has significantly

reduced our electricity consumption, leading to a more sustainable and cost-effective operation.

**Waste Reduction and Recycling Programs:** In an effort to minimize waste sent to landfills, the institution has introduced composting programs for organic waste. Through these initiatives, we are not only reducing our carbon footprint but also enriching the soil for landscaping purposes

**Water Conservation Initiatives:** Prioritizing water conservation, our institution has implemented advanced rainwater harvesting technology. This system efficiently collects, stores, conveys, and purifies rainwater running off rooftops, which is then utilized for irrigating plants on campus

**Renewable Energy Integration:** The institution has invested in renewable energy sources such as solar panels. A grid connected roof-top solar power with a capacity of 310 kW is our major solar initiative in our campus

**Biodegradable waste:**The College has installed a bio-composting unit in our parent organization, where kitchen waste and leftover food are biodegraded and converted into compost using biodegradable methods. This compost is then used as a fertilizer feedstock for our own garden. The composting plant is located at Anand Sager within our parent organization

**Campus Hygiene and Sustainability:** A sanitary napkin incinerator machine is employed for the safe disposal of used sanitary napkins. Machines are installed in each of our three girls hostels, where it is actively used.

**Integration of Sustainability Education:** Sustainability and environmental topics have been incorporated into the curriculum, and workshops, seminars, as well as awareness campaigns, are organized to educate students, staff, and the community about eco-friendly practices

## 7.2 – Best Practices

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

**Title of the Practice-I Institutional Scholarship Support** 2) Objectives of the Practice The Objectives of this practice are: To offer financial aid to students facing economic hardships, ensuring that financial limitations do not obstruct their educational aspirations. To cultivate a culture of achievement and healthy competition among students, inspiring them to excel academically and in various pursuits. To acknowledge students who showcase remarkable academic accomplishments alongside outstanding achievements in extracurricular pursuits. To nurture a sense of social responsibility among beneficiaries, and creating a mind-set that places importance on contributing positively to society. 3) The Context: The motto of our parent organization, Shri Gajanan Maharaj Sansthan, Sarve Bhavantu Sukhinah (May all be happy), exemplifies this best practice. Our institution has taken proactive steps to establish a mechanism that not only rewards outstanding students but also extends support to those in need. This initiative is carried out through a dedicated scholarship committee, comprised of a central coordinator, members, and a custodian. The scholarship committee is responsible for overseeing various aspects of scholarships and awards, including merit-based scholarships, scholarships from donors, GATE prizes, best project prizes, and more. To facilitate this process, our institute has established a scholarship fund specifically designed to assist deserving students who exhibit merit and dedication in their studies. This fund has been made possible through the generous contributions of well-wishers associated with our institute, who have generously contributed a lump sum to support this cause. The interest accrued from this fund is then channelled to provide scholarships to students who meet the criteria set by the donors.. With a dedicated committee and a scholarship fund, institute is committed to create an environment where students succeed and get the support they need. This aligns with our motto

SarveBhavantuSukhinah, promoting the happiness and growth of all students. 4)

The Practice Recognizing the rising financial challenges associated with professional education, the Institute has taken a proactive approach to lighten the financial load for deserving students based on their merit. As a part of our induction program, it is ensured that all students are well-informed about the existence of this committee and its offerings. This information is readily accessible by displaying it on notice boards across the campus. To facilitate this process, the committee accepts applications from students, verifies their financial circumstances, and provides assistance in the form of scholarships.

Merit-based scholarships are accessible to students who achieve over 65 in university exams. The institute has established a scholarship fund, supported by generous contributions from well-wishers. The accumulated interest from this fund is distributed as scholarships based on criteria set by donors. To

encourage GATE participation, the institute rewards students with valid GATE scores. Recognising industry-driven projects, prizes are granted to the top two projects in each branch, as recommended by the project evaluation committee of

the department. For economically challenged students, the institute offers waivers for hostel fees and mess charges, following thorough verification and approval from the Management. For promoting sports engagement, the sports department organizes an annual sports week, providing cash prizes to participants who achieve colour coat in sports and cultural activities. 5)

Evidence of Success: The Institutional scholarship support has yielded several positive outcomes for our student community Increased Retention: The support has led to higher student retention rates, as students are able to continue their studies without the burden of financial constraints. Enhanced

Competitiveness: Through financial assistance, students have been empowered to compete more effectively, both academically and in various technical and professional competitions. . Enhanced Sports Performance: Students have exhibited better performance in sports and competitive examinations. Many students who have benefited from the scholarship support have successfully completed their studies and secured placements in reputable companies. Without this support, these students might have faced the possibility of discontinuing their education. The practice of awarding merit scholarships further strengthens the competitive spirit among students, recognizing their achievements not only in academics but also in extracurricular and co-curricular activities. 6) Problems Encountered and Resources Required:

Verification of Financial Need: Ensuring accurate and fair assessment of the financial backgrounds of applicants to determine eligibility for assistance.

Continuing Institutional Scholarship Support: Maintaining the continuity and effectiveness of this practice to provide ongoing support. The institution, upholding its long-standing commitment to supporting economically disadvantaged students, has made a strong commitment to provide essential financial aid to deserving students, enabling them to fulfill their aspirations of higher

education. This initiative is a collaborative effort involving the staff, alumni, and institutional Management. The process involves the careful scrutiny of applications received from aspirants seeking aid. The committee overseeing this process includes: Principal, Coordinator, senior faculty member from each department, class counsellors, HODs. Through this collaborative and organized approach, the institution ensures that the assistance reaches those who genuinely require it. The institution successfully upholds its mission of providing support to deserving students through the Institutional Scholarship Support practice, due to the consistent backing and encouragement from the institutional management. 1) Title of the Practice-II Industry-Institute

Connect 2) Objectives of the Practice: The Objectives of this practice are:

Fostering Practical Learning: To provide students with real-world exposure and practical experiences by facilitating internships, industry visits, and collaborative projects. Nurturing Entrepreneurship: To inspire entrepreneurial thinking among students and faculty by providing mentorship, resources, and

opportunities to develop innovative startups. Industry-Focused Events: To organize seminars, workshops, conferences, and industry talks to expose students to current trends, practices, and challenges in the field. Enhancing Employability: To equip students with skills that align with industry demands, ensuring a smooth transition into careers after graduation. . .The Context: The context of the practice Industry-Institute Connect lies within the realm of higher education and professional development. This practice revolves around establishing and strengthening collaborations, partnerships, and interactions between academic institutions, such as universities or colleges, and industries

In a rapidly evolving world, where industries are characterised by technological advancements, changing trends, and complex challenges, the practice aims to ensure that education remains relevant and aligned with the needs of the job market. Most of the prominent industries that offer higher salary packages do not directly recruit students. Therefore, students need to augment their knowledge and skills. Through internships, students acquire essential skills and offer fresh perspectives on problem-solving, often resulting in eventual employment within the same industry. By gaining practical experience and exposure during their academic journey, students become better prepared for the job market. They develop skills that make them more employable and ready to contribute effectively in their professional roles. 3) The

Practice: Shri Sant Gajanan Maharaj College of Engineering has created a strong bond between academia and industry. The departmental advisory board of the institute consists of industry experts who provide guidance on curriculum development, industry trends, and emerging skill requirements. Industry experts are invited to deliver guest lectures, conduct workshops, or participate in panel discussions. This provides students with exposure to industry

perspectives, current practises, and emerging technologies. Structured internship is developed with industries, allowing students to gain practical experience, apply theoretical knowledge, and develop industry-specific skills.

Industry professionals mentor students, providing career guidance, industry insights, and networking opportunities. Regular industry visits are organised to expose students to real-world working environments, production processes, and industry best practices. Students are motivated to undertake industry-driven projects and case studies. This allows students to apply theoretical knowledge to real-world scenarios and enhances their problem-solving and critical-thinking skills. Faculty and students are encouraged to protect their intellectual property through patents or copyrights. Interaction between faculty members and industry professionals is promoted through networking events and industry visits. Alumni serving in the industry provide internships, job placements, and industry connections to students. The institute facilitates faculty to undergo sabbatical training within industries. The institute actively engages in signing MOUs (Memorandums of Understanding) with diverse industries to foster collaborative relationships and create beneficial partnerships. The institute organizes regular Industry-Institute meets, which serve as dynamic platforms for academia and industries to interact, 4) Evidence

of Success: Students active participation and success in industry-related projects, hackathons, and technical competitions indicate that they have gained valuable skills and knowledge that align with real-world industry challenges.

This practice has played an important role in fostering the achievement of program outcomes and the achieving graduate attributes Students active engagement in research projects and internships has yielded noteworthy results, including publications, placements and the initiation of start-ups 5) Problems

Encountered and Resources Required: Industry Engagement: Ensuring active and sustained engagement from industries requires consistent effort to communicate the benefits and establish strong partnerships. Student Participation:

Encouraging students active participation in industry-related activities demands motivation, guidance, and mentorship resources. Curriculum Alignment: Aligning the curriculum with rapidly changing industry needs demands continuous



updates, faculty training, and industry insights to maintain relevance. Financial Support: Supporting student internships, research projects, and skill development initiatives requires funding for stipends, resources, and travel. Monitoring and Evaluation: To ensure successful collaborations, it requires a monitoring mechanism, assessment tools, and a feedback loop. Sustainability: Sustaining long-term partnerships and initiatives requires consistent efforts, regular updates, and a dedicated team.

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

[https://www.ssgmce.ac.in/uploads/IOAC\\_BestPractices.pdf](https://www.ssgmce.ac.in/uploads/IOAC_BestPractices.pdf)

### 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

Being different has been treated as good and being good is being treated as different, these days. If an organisation is capable to distinguish, it's definitely in a pipeline to flourish, leave apart the worries to get perished. Shri Sant Gajanan Maharaj College of Engineering, Shegaon, almost for last four decades, has been scattering this "Goodness" backed by numerous other attributes to serve humanity. This journey is led by the esteemed parent organisation "Shri Gajanan Maharaj Sansthan" with the motto "Sarve Bhavantu Sukhinah" (Let All Be Happy). Various aspects like "Sangyansuktam" (Prayer for universal harmony taken from Rigveda), lectures and sessions from monks, spiritual practitioners from Ramkrishna Math and other organisations, organisation of Palkhi/ dindi/ granth dindi, celebrations on birth anniversaries and death anniversaries of great souls, Yoga coaching, meditation, daily prayer in the prayer hall, availability Swadhyay kaksh (Room), an enriched library with a good number of books not only on curriculum but also on personality development, culture, religion and spiritual practice, an exclusive section called Sparsh including books by the stormy monk Swami Vivekananda and his colleagues, inputs from faculty members well equipped with the UHV courses and through subjects like Business Ethics, Values and Ethics reflect the efforts to elevate Spiritual Quotient. The technology side of the institute can be represented through a 24 hours uninterrupted wi-fi facility, FabLab established through expertise Vigyan Ashram, Pabal, Pune, availability of SAP Software, CNC Simulation exercises by Circular Angle, Mumbai, Solar Research Laboratory, Making of e-bicycles and e-vehicles, Award winning projects in Smart India Hackathon, Students' activities like Pursuit and Parishkriti, Water Recycling Plant, Turnitin Plagiarism Checker Software, Usage of Office Teams, OPAC Library Software etc. . Considering the marginal farmers and the allied farmer suicides in the region, institute is with a novel brainchild of unique "Earn and Learn" mechanism within the premises. An array of projects, internships and community development services are done in the nearby rural vicinity. More than one thousand alumni from around twenty countries through high positions like Director, Vice President, and Heads etc in multinational corporations are serving the global community with the leadership backed by values imbibed in the institution. Four departments from the college have received accreditation from NBA. A handsome count of Ph.D. faculty members is almost thirty at a rurally located institution. This is further beautified by authentic research centers under SGBAU. Several research laboratories are sponsored by industries, further enhancing the institutions reputation. The institute has patents to its credit, including An Improved Lead Acid Battery for Solar Power System, A Pneumatic Air Rotor Driven Water Pump, and All-In-One Shaving Tool. Additionally, copyrighted works such as Medical Process Outsourcing Models for Healthcare with a backbone of WSN and Development of Lean Manufacturing Implementation Model showcase the institutes

accomplishments. The institute has received numerous awards from various bodies, centres, and organisations for its educational leadership and offerings. World-class sports facilities are provided.

Provide the weblink of the institution

[https://www.ssgmce.ac.in/uploads/IOAC\\_Institutional.pdf](https://www.ssgmce.ac.in/uploads/IOAC_Institutional.pdf)

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

To participate in the National Institutional Ranking Framework (NIRF) ranking. To established a centre of excellence in recent trends in engineering To embrace e-learning platforms and integrate technology into the curriculum. To increase the number of Memorandums of Understanding (MOUs) with industries to assist students with placements and internships. To enhance the workshops, FDPs related to Research Methodologies, Intellectual Property Rights To apply for funding from various agencies to support research projects and institutional development. To conduct a green audit, energy audit and environmental audit as an excellent way to promote sustainability. To increase the number of patents and copyrights To encourage social responsibility initiatives, such as community outreach programs, environmental sustainability projects, and contributions to societal development. To revise the academic audit format To conduct external academic audits periodically to gain insights and recommendations for improvement. To apply for NAAC Accreditation, a significant milestone in assessing and enhancing institutional quality To continue nurturing an entrepreneurial spirit by offering resources such as incubation centres, mentorship programs, and funding opportunities for student startups To increase the activities related to gender sensitization To implement eco-friendly practices and regularly assess their impact