INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)

Accreditation - (Cycle - 3)

PEER TEAM REPORT ON

INSTITUTIONAL ACCREDITATION OF
SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING SHEGAON
C-42835

Shegaon
Maharashtra
444203

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA

Section I:GENERAL INFORMATION

1.Name & Address of the institution:	SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING SHEGAON Shegaon Maharashtra 444203
2.Year of Establishment	1983
3.Current Academic Activities at the Institution(Numbers):	
Faculties/Schools:	
Departments/Centres:	6
Programmes/Course offered:	15
Permanent Faculty Members:	103
Permanent Support Staff:	217
Students:	1931
4.Three major features in the institutional Context (Asperceived by the Peer Team):	1. Spacious picturesque Campus 82 acres 2. Excellent outdoor sports facilities 3. In-house residential campus for faculty and students
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	From : 06-12-2024 To : 07-12-2024
6.Composition of Peer Team which undertook the on site visit:	

	Name	Designation & Organisation Name
Chairperson	DR. A K D DWIVEDI	FormerDirector,National Institute of Elecronics and Information Technology Gorakhpur UP
Member Co-ordinator:	DR. AMIT SINGH	Professor of Universities/Colleges at level 14 of 7th CPC,Guru Gobind Singh Indraprastha University
Member:	DR. BHARATISH RAO R S	Principal,MEWA Vanguard Business School
NAAC Co - ordinator:	Dr. A.v. Prasad	

Section II:Metric and Criterion Analysis

Observations (Strengths and/or Weaknesses) on each qualitative metrices of the key Indicator under the respective criterion(This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QlM) in Criterion1)	
1.1	Curricular Planning and Implementation
1.1.1 QlM	**The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment**
1.3	Curriculum Enrichment
1.3.1 QlM	*Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum*

Qualitative analysis of Criterion 1

The Shri Sant Gajanan Maharaj College of Engineering, Shegaon is affiliated to Sant Gadge Baba Amravati University, Amravati.

The Institute adhere to prescribed curriculum of the University for UG, PG and PhD Programs. The institution follows the academic calendar and pedagogy of the affiliating University prescribed from time to time. Apart from the pedagogy, the institution is encouraging extra curriculum activities for the holistic development of the students by offering soft skill programs, training and placement activities, and Entrepreneurship Development cell activities. Online students Information management system portal of the college facilitate students to submit fee online.

Faculties prepares comprehensive study material, videos and model questions to support students for examination preparation.

The classroom is spacious and equipped with smart/green boards. Effective delivery of curriculum of the university is ensured by the college. College has systematic feedback mechanism to collect feedbacks from its stake holders. Proper system is in place to analyze feedbacks and take corrective measures. Six Professor of Practice have been appointed to make students industry ready. System of academic audit is in place to ensure quality delivery of the academic programs

The institution is conducting academic audit internal and externally to compliance of academic program. The feedback of the academic audit is implemented by the college to improve quality of teaching.

The Principal, HoDs, Deans and the IQAC coordinator are putting their efforts to ensure the efficient delivery of the curriculum at with University curriculum. The institution striving hard for holistic development of the students and make them industry ready in their respective field. The quality of teaching is further improved by the institute through analysis of feedback received from various stakeholders. To fill the gap, institute organizes expert lecture invited from industry and alumni association. The expert lecture is helping students to understand the industry requirement.

Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrices(QlM) in Criterion2)	
2.3	Teaching- Learning Process
2.3.1 QlM	**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tools including online resources for effective teaching and learning process**
2.5	Evaluation Process and Reforms
2.5.1 QlM	**Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient**
2.6	Student Performance and Learning Outcomes
2.6.1 QlM	*Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website*
2.6.2 QlM	*Attainment of POs and COs are evaluated.* Explain with evidence in a maximum of 500 words

Qualitative analysis of Criterion 2

The institute emphasis an active and interactive learning. Teaching-learning is made student-centric by giving students opportunity for independent and collaborative learning. College promotes to develop mini-project, industrial visit, internship, laboratory experiments and training program, participation in National & International competition like National Hackathon etc.

The Institution encourages students to make some small projects to enhance their practical knowledge simultaneously working on the creative and innovative aspects of their personality and inspiring them. The students are provided with the necessary experience by giving them exposure to various laboratories, right from their first year.

The students have been given exposure through seminars and exhibitions etc. The students have been provided resources of education materials through e-resources, library access through SLIM21 and Book Bank facilities. The students have been provided multiple books for whole semester through book bank facilities of Library. The library is provided good coverage of internet through Wi-Fi devices. The library has photocopier facilities for taking photocopies of relevant materials.

The institution is providing pre-placement training for the students who are aspiring to enter the corporate world. The training and placement department is active in this direction and also institution encourages students to develop entrepreneur skill through giving proper in-house training through EDC. The students have also been encouraged to develop entrepreneurship skill through Institution's Innovation Council. The Institution's Innovation council follow the calendar provided by AICTE and conducts seminars, workshops and training programme relevant to entrepreneurship.IIC of the institute has been rated Three Star by AICTE.

The institution encourages to develop the innovative project through AVISHKAR scheme and provide all the logistic support and the knowledge.

The institution follow transparency in internal assessment process by conducting internal examination and evaluating using revised Bloom's Taxonomy. The question papers is being audited by academic monitoring committee with a fool proof method of examination. The students are having an access after the evaluation through students Information System portal and submit Grievances.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrices(QlM) in Criterion3)	
3.2	Innovation Ecosystem
3.2.1 QlM	**Institution has created an ecosystem for innovations, Indian Knowledge System (IKS),including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident**
3.4	Extension Activities
3.4.1 QlM	**Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.**
3.4.2 QlM	**Awards and recognitions received for extension activities from government / government recognised bodies**

Qualitative analysis of Criterion 3

To foster and instil a robust culture of Research and Innovation, Institute has established a comprehensive ecosystem of Research and Development (R&D) Policy and startup policy in line of National Start-up Policy.

This comprehensive policy of institute encompasses a spectrum of initiatives aimed at facilitating and encouraging research endeavours.

The institute supports and encourages Doctoral research programs. To fulfil the objective of the research program Institute is running five PhD programme in various discipline. Large number of faculty members have been registered in PhD programme under this policy.

The institutes encourages faculty and students to do publication of their research work in Journal of repute and conferences. The committee has observed that faculty and students have published their finding in Journal of repute and Conferences. The institute has policy to bear the expenditure of participation of Conferences. The institute is also bearing the expenditure towards filling patent by faculty and scholars.

To ensure the innovative research, the policy facilitates the submission and approval of research project proposals, subsequently securing funding for these cutting-edge endeavours. Furthermore, institute extends its expertise and consultation services to external entities, promoting knowledge exchange and collaboration.

To motivate and incentivize both students and faculty members to actively participate in research and innovation, the policy offers various incentives. The institute provides financial support for research publications and prototype development, ensuring that these innovative concepts can be brought to life and make a tangible impact.

To promote innovation and foster start-up culture, Institute has established dedicated research centre.

The Institute has established various platforms, such as IIC, Entrepreneurship Cell (E-Cell), dedicated IKS cell, Industry Interaction cell and Entrepreneurship Development Cell (ED Cell), to facilitate knowledge transfer and enhancement. These entities organize a variety of awareness programs, seminars, and workshops for both students and faculty members.

SSGMCE is nurturing social awareness among its students through a combination of academic curriculum and

extension activities. The institution hosts a diverse range of initiatives, including blood donation camps, educational awareness programs, and gender equality initiatives, all with the aim of promoting awareness within the local community. To realize these objectives, the college effectively manages several key units, including the National Service Scheme (NSS), Unnat Bharat Abhiyaan (UBA), National Cadet Corps (NCC), and Sankalp Group.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrices(QlM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QlM	**The Institution has adequate infrastructure and other facilities for,** • **teaching – learning, viz., classrooms, laboratories, computing equipment etc** • **ICT – enabled facilities such as smart class, LMS etc.** **Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)**
4.2	Library as a Learning Resource
4.2.1 QlM	*Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students*
4.3	IT Infrastructure
4.3.1 QlM	**Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection** *Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words*

Qualitative analysis of Criterion 4

The institute's extensive 82-acre campus strictly adheres to the land and building space. The campus houses 27 ICT enabled classrooms and a drawing hall. The institute has 50 Laboratories, each furnished with the state-of the art tools. The laboratory is well equipped and align with AICTE norms.

These labs not only cater to practical classes but also extend beyond the curriculum, providing training in technology and holding sufficient licensed software and open-source tools. The institute also houses University-approved research labs for various engineering disciplines and an additional research centre, fostering research activities among both staff and students. The institute features various specialized research facilities, such as the Solar Production Centre, Cadence Centre, Electric Vehicle Lab, FAB Lab, PLC Automation Lab, and the Dr. Georg H Endress Laboratory.

To support cultural events, the institute boasts an ultramodern auditorium with seating capacity of 1200, complemented by a dedicated music room equipped with various instruments. The auditorium has six seminar halls providing spaces for hosting guest lectures, seminars and workshops. Also ultramodern seminar hall of capacity of 220 etc.

The institute give good importance to physical fitness and recreation, the institution provides an extensive spectrum of sporting facilities, including indoor and outdoor spaces. The institute has a 500-capacity indoor badminton stadium, a modern multi-gym health centre, and rooms for chess and carrom. Outdoor facilities

encompass volleyball courts, a Kabaddi ground, lawn tennis courts, a Khokho field, football and handball grounds, a cemented basketball court, a 400-meter running track, a ball badminton ground, and a proposed international standard cricket ground with a TRF wicket. A comprehensive CCTV surveillance is in place to ensure the well-being of students and staff. The library houses an extensive collection of books, journals, and digital resources, complemented by dependable high-speed internet connectivity.

The campus is Wi-Fi enabled, ensuring an internet speed of 1000 MBPS, secured through Palo Alto PA820 firewalls. The internet services are provided with a dedicated services leased through BSNL/Vodafone and Raillet.

The institute has full time medical facilities available with first aid kit and also lady doctor appointed, and RO water purifiers. The institute provides 5 boys' hostels, 3 girls' hostels, and staff residential facilities, ensuring 24/7 security and maintenance. The campus also offers a clean canteen, mess, and a variety of nutritious meals. Additional amenities include a Student Cooperative consumer store, an on-campus ATM, and a powerhouse ensuring continuous power supply, Solar power plant of capacity of 310 KW.

The library functioning system is managed by the library automation Operated through the SLIM27 software, the library is fully automated, managing Acquisition, Cataloguing, Circulation, and Serial Control. This system handles various materials, including books, e-books, articles, and reports, aiding in generating reports, updating policies, and tracking item status. The library holds an impressive collection of over 91,534 text and reference books across 29,945 unique titles. The library's services are enhanced by round-the-clock internet, intranet, and Wi-Fi connectivity. Online subscriptions include resources like Science Direct, IET, ASME, Periodicals Package 2022, and 1907 journals on Engineering, including the Computer Science Collection.

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrices(QlM) in Criterion5)	
5.4	Alumni Engagement
5.4.1 QlM	**There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services**

Qualitative analysis of Criterion 5

The institution support student for the holistic development by offering financial and non-financial support. The students of this institution are benefitted with scholarship and freeship.

The institute conduct various soft skills enhancement program, Language and communication skills, Life skill, Foreign language. The institute has dedicated trainer to conduct soft skills and language communication skill. The institute has dedicated trainer for Yoga, Physical fitness and health. The institute has appointed a professional counsellor to consell and manage students' mental health.

The institute has Career Counselling centre to offer training to students to compete competitive examination. The results shows that students are getting admission in higher studies. The Career counselling centre also organises seminar for guiding the student to choose career path.

The Institute has adopted the redressal mechanism in accordance to AICTE and UGC. The institute has constituted an Anti-ragging committee and Student Grievance cell to handle students complain regarding ragging and sexual harassment. The online portal has been developed by the institute is taking care of complain submitted by the students. All the complain submitted by the students are being addressed through grievance and anti-ragging committee.

The placement cell of the institute is well equipped with qualified team. The Training and Placement cell is being monitored through a dedicated team of officer. The students are benefitted with the TPO for getting job in the industry.

The institute is encouraging student to participate in university level sports/cultural/technical event. The institute is performing very well in sports event conducted by university and getting good number of award. The institute is encouraging student to participate in outside of the event organised by other institute at National and International level.

The Alumni Association of Shri Sant Gajanan Maharaj College of Engineering, Shegaon, is very active.It bring together the alumni of the institution, creating a cohesive network of individuals who have graduated from the college. The Alumni Association organizes an Alumni Meet at the campus every year. To date, a total of 24 alumni meets have been organized at various places. Since 2015, the meets have been organized every year at the campus. On this occasion, a newsletter is also published. Additionally, the Alumni Association has launched its own portal (alumni.ssgmce.ac.in). About 12,000 alumni have been part of the member directory, and more than Rs. 45 Lakhs have been received as donations from alumni during the assessment years.

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrices(QlM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QlM	*The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.*
6.2	Strategy Development and Deployment
6.2.1 QlM	*The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc*
6.3	Faculty Empowerment Strategies
6.3.1 QlM	**The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression**
6.4	Financial Management and Resource Mobilization
6.4.1 QlM	**Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)**
6.5	Internal Quality Assurance System
6.5.1 QlM	**Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities**

Qualitative analysis of Criterion 6

The management and the governing council is pro-active in providing state of the art infrastructure required facilities. The management have clear vision for bringing institute to world class learning centre in Engineering and Technology. Faculty members actively participate in various institutional committees and professional bodies and contribute in decision making to achieve goals set as per the perspective plan. The

active participation of faculty is shown the accreditation by National Board of Accreditation. The institute is working as mentor to six institute for NBA/NAAC accerdiation appointed by Director of Technical Education, Maharashratra.

Heads of the Departments are actively involved in the implementation of the strategic plan at the department level, overseeing various development activities such as Curriculum Development, Teaching & Learning, Research and Development, as well as Co-Curricular and Extra-Curricular activities.

A well-structured Internal Quality and Assurance Cell is in place to monitor and audit periodic activities. The principal, prepare the agenda for the discussion in Board of Governance of SSGMCE. The Board of Governance of SSGMCE is the apex body which holds supreme decision-making authority.

The IQAC and CDC conduct the meeting and take the decision for smooth functioning of the Institute. The Institute implemented e-governance and its operation through ERP. The ERP is managing Administration, Finance & Accounts, Students Admission process.

The institute has Faculty performance appraisal system, effective welfare measures for teaching and non-teaching staff.

The institute has instituted a holistic welfare program, comprising diverse benefits and provisions aimed at enhancing the well-being and professional growth of both its teaching and non-teaching personnel. The institute offers following welfare scheme: Professional Development, Group Insurance, EPF, Gratuity, Maternity Leave, Special Leaves, Loan facility, College Uniform, Quarter facility, Education support, Study leave, Sabbatical training, Sports participation.

The institute generate fund through tuition fees, research grants from various funding agency. The college also conduct national level examination as a centre for examination and earn the conduction charges.

This institutional budget comprehensively covers recurring costs, including electricity, internet charges, stationery, and maintenance expenditures. The budget also encompasses planned outlays, such as the acquisition of laboratory equipment, furniture, and other developmental investments. The institute has appointed a Chartered Accountant as an auditor to audits the account of the college and also appointed internal Auditor.

The IQAC is conducting internal quality audit in accordance to University norms. IQAC conduct regular meeting of IQACto identified and implement gap of Teaching Learning process.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrices(QlM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QlM	**Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years.** *Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words*
7.1.4 QlM	**Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)**
7.2	Best Practices
7.2.1 QlM	**Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual**
7.3	Institutional Distinctiveness
7.3.1 QlM	**Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words**

Qualitative analysis of Criterion 7
The institution is striving hard to maintain the ethical values and delivered the social responsibilities in the process the institution has initiated the several activities including gender audit, gender equality etc. The institution gives the top priority for safety and security of the students and staff members. Around the clock security is provided with the CCTV surveillance. It also provides sports, Yoga and Gymnasium facilities. The good quality canteen facility is available for students and staff. Apart from these facilities institution formed various committees like anti ragging committee, students' grievance redressal committee etc. The institution has inhouse health care facilities having qualified medical practitioner along with the ambulance services. The institute has also installed sanitary pad vending machine and incinerator in the ladies rest room. There is a full-time psychologist counsel the students as an when it is required. It has also provided dispensary within the campus for the benefit of the students free of cost. To empower the women, the institution has started the Women Development Cell and other outreach initiative. The Institution commitment for sustainable green and clean campus it has taken various initiatives like alternate source of energy and energy conservation, effective waste management system, water conservation, The water treatment plant and rainwater harvesting facilities are available in the Campus.

Section III:Overall Analysisbased on Institutional strengths.Weaknesses,Opportunities & Challenges**(SWOC)**
Overall Analysis
Strength:

- The management with a visionary leadership having philanthropic approach for the development of institution.
- The institute has most of UG and PG programme are accredited by National Board of Accreditation.
- Availability of more than 80 acre of land for further expansion.
- The Spacious Eco-friendly campus with hostels and residential accommodation.
- The state of the art sports facilities, encouragement for extra curricular activities and providing international exposure for the students.
- Strong Alumni Collaboration and the support.
- The institute has well equipped research centre to carried out Doctoral Degree Programme.
- The institution has well equipped Library.
- The institute has R&D centre to promote Entrepreneurship and Start-up.
- Good industry-institute connect, signing MoU with reputed companies (63 MoUs)

Weaknesses:

- The institution have less number of students and faculty out of the Maharashtra.
- The institution does not have collaboration of Foreign University to bring international program.
- The institute is lacking to have a collaboration with national level laboratories and institute.
- Limited students' exposure to foreign language including English.
- Limited exposure of training for GRE, GMAT, TOEFEL, CAT, GATE and other competitive exam is limited.
- The institution is lacking in having consultancy projects through their faculty members.

Opportunities:

- The institute has opportunities to apply for Autonomous category/Deemed to be University.
- The institution should invite multinational company for placement of students.
- The institute may enhance the Alumni-network to develop the infrastructure and consultancy programme.
- Revenue generation through technology transfer of developed prototype products.
- Expansion of Entrepreneurship Development Activity.

Challenges:

- Due to locational disadvantage, the reputed/Multinational are not visiting for Campus Recruitment.
- Poor air connectivity is a constraint for bringing national/International academician to college.

Section IV:Recommendations for Quality Enhancement of the Institution

(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- More Efforts should be made to attract good corporates for Campus recruitment.

- Faculties should be encouraged to submit proposal to Central/State Government for more research/training projects.

- Efforts should be made to conduct more FDP and International Conference with reputed institutions.

- Center of Excellences should be more utilized by the way of conducting specialized short-term training programmes.

- Efforts should be made to enhance quality publication in Journals of repute.

I have gone through the observations of the Peer Team as mentioned in this report

Signature of the Head of the Institution

Seal of the Institution

PRINCIPAL
Shri Sant Gajanan Maharaj
College of Engineering,Shegaon.

Sl.No	Name		Signature with date
1	DR. A K D DWIVEDI	Chairperson	
2	DR. AMIT SINGH	Member Co-ordinator	
3	DR. BHARATISH RAO R S	Member	
4	Dr. A.v. Prasad	NAAC Co - ordinator	

Place

Date

Sl.No	Name		Signature with date
1	DR. A K D DWIVEDI	Chairperson	
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3	DR. BHARATISH RAO R S	Member	
4	Dr. A.v. Prasad	NAAC Co - ordinator	

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