



Shri Gajanan Shikshan Sanstha's
SHRI SANT GAJANAN MAHARAJ COLLEGE OF ENGINEERING
SHEGAON – 444203, DIST. BULDHANA (MAHARASHTRA STATE),
INDIA

"Recognized by A.I.C.T.E., New Delhi" Affiliated to Sant Gadge Baba Amravati University, Amravati
"Approved by the D.T.E., M.S. Mumbai"

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Strategic Plan

Shri Sant Gajanan Maharaj College of Engineering, Shegaon (SSGMCE), one of the premier institutes in the field of engineering, was established in 1983 by Shri Gajanan Shikshan Sanstha, Shegaon. It is affiliated to Sant Gadge Baba Amravati University, Amravati, recognized by AICTE, New Delhi and approved by DTE, Maharashtra State, Mumbai. Courses at SSGMCE are accredited by NBA 4 times) AICTE, New Delhi. The Institute was selected as the Network Institute under NPIUs TEQIP, MHRD, Govt. of India under Phase-I. SSGMCE is honoured with Dewang Mehta National EDUCATION LEADERSHIP AWARD, CII-GRATITUDE AWARD, and honoured as Management College of the Year by Higher Education Review Magazine. Career360 Magazine ranked the institute as AAA.

The Institute offers 5 Undergraduate engineering courses and 5 Postgraduate (4 Engineering and 1 Management) courses. All the laboratories have been recognized as centres for Ph.D. programme. It has excellent physical facilities in the form of residential and academic buildings, library, laboratories, equipment's, hostels, Yoga and Meditation Centre etc. of its own spread over neat and clean 82 acres of campus. It provides Indoor/ Outdoor Sport facilities with Wooden Flooring Badminton Court, Hi-tech Gymnasium Centre, Skating Ring (National Standard), Cricket Ground of an International Standard.

VISION:

To impart world-class Engineering and Management education in an environment of Spiritual foundation to serve the global society

MISSION:

- To develop Excellent learning centre through continuous design and up gradation of Courses in close interaction with Research and Development centres, Industries and Academia.
- To produce competent, entrepreneurial and committed Technical & Managerial human resource, with spiritual foundation to serve the society.
- To develop state of the art infrastructure, centres of excellence and to pursue Research of global and local relevance.
- To strive for 'Sarve Bhavantu Sukhinah' – The ideal of our parent organization Shri Gajanan Maharaj Sansthan through symbiosis of Science and Spirituality.

Core Values:

Personal Excellence

Accountability

Trustworthiness

Holistic Development

Creativity and Innovation



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Strategic Plan (2018-19 to 2022-23)

SSGMCE is dedicated to positioning itself as a leading institution in the education sector, particularly in the domains of engineering, technology, and management. With a primary focus on nurturing highly competent and industry-ready professionals, the institute has meticulously crafted a comprehensive strategic plan spanning from 2018-2019 to 2022-2023.

This strategic roadmap delineates the methodologies, action plans, and specific timelines crucial for realizing our ambitious goals. The formulation of this plan has been shaped by a myriad of factors, including a robust analysis of the institute's Vision and Mission, a detailed SWOC analysis, strict adherence to standards set by accrediting, ranking, and assessing agencies, incorporating valuable feedback from accrediting agencies and stakeholders. Furthermore, the plan is intricately designed to align seamlessly with the National Education Policy (NEP) of 2020, and it incorporates proactive measures aimed at effectively addressing anticipated challenges in the future.

The strategic plan serves as a dynamic framework, guiding SSGMCE towards excellence and responsiveness to the evolving needs of the industry and community

Goals:

To become a premier institute for Engineering and Management education by implementing high-quality teaching and learning practices

To foster and provide assistance for research, consultancy, innovation, and entrepreneurial initiatives

To establish an environment that facilitates students' success through active engagement in academic and both co-curricular and extracurricular activities

To cultivate an environment that encourages continuous development and learning for our faculty and students

To develop and uphold the necessary facilities, infrastructure, governance, and administrative frameworks that contributes to the fulfilment of the college's vision, mission, and values



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Goal 1: To become a premier institute for Engineering and Management education by implementing high-quality teaching and learning practices	
Objectives	Action Plan
Curriculum Enhancement	Develop and conduct Add on courses/ Value added courses to incorporate emerging technologies and advancements. 05 per year
	Integrate crosscutting issues relevant to Professional ethics, Gender, Human values, Environment in curriculum 01 activity per dept per year
	Facilitate internships, industrial visits, and guest lectures by industry professionals. Internships-30 % students per dept Industry Visit-02 per dept per year
	No. of Industry persons to be invited as Resource person = 02 per dept. per year
	Implement regular feedback mechanisms from students, faculty, and industry partners to identify areas for improvement.
Transformative Pedagogies: Advancing Teaching and Learning Excellence	Implement Innovative teaching learning methods (Blended Learning, Peer Teaching, Flipped Classroom, Project-Based Learning (PBL), virtual lab) Integrate innovative teaching tools and e-learning platforms to enhance the overall educational experience
	Implement student-centric teaching approaches that foster critical thinking, problem-solving, and practical application of knowledge.
	Establish mentorship programs and support services to ensure personalized guidance for students.
	Address the diverse learning needs of both slow and advanced learners
	Implementing an Outcome-Based Education (OBE) framework



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Building the Institute as a Center for Excellence and Innovation	Attain the position in NIRF Ranking
	NBA Accreditation for all Programs
	Better Grade in NAAC Accreditation in upcoming cycle
	Obtain ISO 9001:2015 Certification
Goal 2: To foster and provide assistance for research, consultancy, innovation, and entrepreneurial initiatives	
Cultivate a Vibrant Ecosystem for Research, Consultancy, Innovation, and Entrepreneurship	Establishment of Incubation centre
	International Conferences to be organized = 01 per year
	Research methodology related workshops = 02 per year
	Enhancing incubation activities through effective project management and increased engagement with industries.
	Proposals to be submitted to various funding agencies = 02 per dept per year
	Faculty publication in recognized SCI/WoS/Scopus indexed journals and conferences. = 01 per Faculty per year
	Faculty publication in National/ International conference / books / book chapters in edited volumes/ books =01 per Faculty per year
	Faculty undergoing Industry training/Internship = 01 per dept. per year
	Registration of every PhD qualified faculty as a PhD supervisor
	MoUs with academic institutes/industries = 01 per dept. per year
	Grants received from Government and Non-Government Agencies >= 3 Lakhs
	Consultancy Project =01 per dept
	Workshops/ Seminars/ Training program on IPR and Entrepreneurship-=06 per year
Student publication: 05 to 10 high quality publication (project based) per year	
Societal and economically important projects=02 per dept	



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Goal 3: To establish an environment that facilitates students' success through active engagement in academic and both co-curricular and extracurricular activities	
Foster Student Success through Active Engagement in Academic and Diverse Co-curricular/Extracurricular Activities, Cultivating Holistic Development	Students participating in State-level/ National Level activities = 50 % per year.
	Students' achievements in activities – Incremental
	Sports and cultural activities conducted =30 per year
	Professional Chapter Activities=- 05 per dept. per year NSS / Unnat Bharat Abhiyaan Activities=10 per year
	Gender Sensitization activities =04 per year
	Extension Activities =02 per dept
Goal 4: To cultivate an environment that encourages continuous development and learning for our faculty and students	
Establish a dynamic professional development culture for both faculty and students. Additionally, provide targeted guidance and support to enhance students' employability, ensuring they secure quality placements aligned with their career aspirations.	Industry Certified Training Courses for Students =10 per year
	Alumni involvement in guest lectures, mentorship, Internships, placement support, and as innovators in the campus start-up ecosystem=05 per dept per year
	Students completing Campus Placement enhancement training =80 %
	Career Guidance and career counseling offered =05 per year
	Yoga and Mediation session =01 every year
	Campus Placement = 80% of eligible students
	Student's enrollment in State/ National/ International Level examination=20 % per year
	Conduct mock interviews before the visit of companies
	NPTEL/SWAYAM Course Certification = 10% students per dept per year
	Capacity building and skill enhancing program=05 per year
	Industry oriented certified training for Faculty=02 per year
	FDP/STTP completed by Faculty = 80% faculty per year
Financial assistance provided to attend conference/STTP/training program=50 % Faculty per year	



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	Non-teaching Staff completing Skill development program =80 % per year
Goal 5 :To develop and uphold the necessary facilities, infrastructure, governance, and administrative frameworks that contributes to the fulfilment of the college's vision, mission, and values	
Enhance and sustain essential facilities, infrastructure, governance, and administrative frameworks	ICT-enabled classrooms = 100%
	Development of Centre of Excellence = 01 per dept
	Industry-supported lab. = 01 per dept
	Subscription of e-books = 100 per year
	Up gradation of Internet bandwidth
	Student Computer Ratio<5


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Perspective Plan -2023 to 2025

Objectives	Action Plan
Optimize and expand the organization's physical and technological infrastructure	Establishment of Centers of Excellence that align with industry support and adhere to the highest standards 01 per dept
	Implementation of ERP Software
	Smart Board Installation 01 per dept
	Establish Computing Facility Center
	Establish separate Wi-Fi internet and intranet facilities in hostels
	Upgrade the existing laboratory facilities with the latest technology.
	Upgrade the internet bandwidth 1Gbps
	Establish an integrated framework for self-learning through MOOCs like NPTEL and Coursera
Enhance organizational capabilities and employee proficiency	Implement targeted training programs for Faculty 50 % Faculty per year
	Initiate a holistic professional development program covering grant proposals, industrial training, and patents 04 per year
Enhance academic development	Establish Additional Research Centers and Facilities
	Cultivate collaborations with reputed research institutions and organizations
	Engage Industry Experts as Professors of Practice in TLP
	Strengthen the Research and Development (R&D) Resource Center (RRC) system. Faculty with PhD qualification= 50%
	Incentives for high-quality publications
	R&D Projects and Consultancy worth =10 Lakhs per year
	Guidance sessions for GRE/TOEFL etc. = 02 per year
	To attain autonomous status for the institute by improving governance, meeting legal requirements, securing financial independence, and gaining stakeholder support.
	Implement the National Education Policy (NEP) 2020 effectively within the institution, ensuring smooth integration of its key principles and guidelines


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Deployment and Implementation of Strategic Plan (2018-19 to 2022-23)

SSGMCE has a well-defined strategic plan formulated as a Five-Year plan and implemented since the Academic Year 2018-19. 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 IQAC is responsible for maintaining internal quality and creating a conducive academic environment.

Implementation of Strategic Plan

A five-year plan covering the period from 2018 to 2023 has been developed to ensure the effective functioning of the Institute. Various initiatives have been undertaken to implement the strategic plan.

Curriculum Enrichment

Institute offered 224 additional courses to integrate emerging technologies and advancements, with 84% of students completing the courses successfully.

To integrate crosscutting themes like professional ethics, gender, human values, and environment into the curriculum a range of initiatives were executed. These initiatives encompassed industrial visits, workshops, guest lectures, and other social activities designed to address these diverse issue.

The feedback from stakeholders was collected, analyzed, and suitably incorporated into all new curricula, resulting in the introduction of additional courses in the corresponding academic year.

Advancing Teaching and Learning Excellence

To ensure the seamless execution of academic plans, institute formulated and strictly adhered to the annual Academic Calendar. Academic strategies included the implementation of Student-Centric pedagogy, focused attention on both advanced learners and those progressing at a slower pace, and the adoption of innovative teaching methodologies

Incorporated innovative teaching methodologies, including mind maps for visual learning, crosswords for interactive problem-solving, virtual labs for hands-on experience, and YouTube channels for multimedia content delivery

A mentorship program was successfully launched across departments to provide personalized guidance for students. Mentors were trained to address academic and personal development needs. Resources and assistance were provided for both slow and advanced learners to foster an inclusive learning environment.

Successfully adopted and implemented an Outcome-Based Education (OBE) framework across all academic programs, aligning curriculum, assessments, and teaching methodologies



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with predefined learning outcomes, and providing faculty training on OBE principles for successful implementation

Accreditation and Recognition

Four undergraduate programs have obtained an initial 03-year accreditation from the NBA. Subsequently, these programs have been granted an extension of an additional 03 years, securing accreditation until 20-06-2025.

The ISO 9001:2015 Auditors Certification Training program was successfully conducted.

Vibrant Ecosystem for Research and Innovation

SSGMCE has instituted a Research & Development Cell, led by the Chief Coordinator of R&D, responsible for formulating and implementing the proposed research and development activities outlined in the Strategic Plan. A Research and Development Committee has been established to oversee and guide faculty in various activities, including the review of submitted research projects, organization of workshops, conferences, and guest lectures on advanced research, emerging areas in industry, IPR, and entrepreneurship. To ensure the smooth functioning of these activities, an R&D Policy has been framed. Additionally, an Innovation Cell has been created to address the needs of students and faculty entrepreneurs with innovative ideas of social relevance, fostering a culture of entrepreneurship within the college. This initiative is designed to elevate our education system.

Outcomes:

MBA department successfully organized AICTE Sponsored First National Conference on "Innovation Management" NCIM, fostering global collaboration and knowledge exchange.

The Electronic Department successfully organized the International Conference on Innovative Trends and Advances in Engineering and Technology (ICITAET) during the academic year 2019-20.

During the assessment period, a total of 107 workshops and seminars on Research Methodology, Intellectual Property Rights (IPR), and entrepreneurship were conducted, fostering a culture of innovation and enhancing research skills and methodologies among faculty and students, while also raising awareness about IPR and entrepreneurship

The institute received a total grant of Rs 53 lakhs from various government and non-government funding agencies for organizing FDPs and STTPs. Additionally, two departments received MODROB grants for enhancing laboratory facilities.

Strategic initiatives to enhance placement opportunities

In response to declining opportunities in the production sector, proactive steps have been taken to expand employment avenues for core engineering students by facilitating entry into high-paying Information Technology (IT) jobs. Dedicated courses have been introduced to equip Electrical and Mechanical Engineering students with programming skills and coding abilities. Specialized coding training is integrated, complemented by soft skills and aptitude courses. Additionally, mock interviews are conducted to prepare students for placement drives. Extra coaching is provided to students in core branches before core company



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recruitment drives. Internships and training opportunities are offered in core companies to provide students with a first-hand experience of the work culture

Quality Assurance Initiatives

The initiative for overall Quality Assurance at SSGMCE involves establishing a dedicated Internal Quality Assurance Cell (IQAC) responsible for ensuring internal quality and overseeing various activities aimed at enhancing education standards. The committee is constituted following UGC and NAAC guidelines, advising strategies for conscious and consistent improvement in SSGMCE's overall performance. The IQAC conducts periodic reviews of Teaching-Learning processes and provides recommendations for operational and learning outcome improvements. Additionally, the IQAC ensures the timely preparation and dissemination of the Academic Calendar. Feedback received from stakeholders is used to enhance the teaching-learning process. IQAC takes initiatives in organizing FDPs, administrative, and professional development courses for teaching and non-teaching staff.

The following are the major initiatives of IQAC

- Conducted regular meetings of the IQAC to strategize and implement quality improvement measures.
- Collected and analysed feedback for continuous institutional improvement.
- Established MoUs with industry partners
- Participated in NIRF
- Conducted quality audits recognized by state, national agencies (Green audit, energy audit, environment audit).
- Initiated the Annual Academic Audit
- Four undergraduate programs secured an initial 3-year accreditation from the NBA, extended for an additional 3 years until 20-06-2025.
- Formulated various policies to ensure the seamless functioning of academic and administrative activities.




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