SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

HINDI SEVA MANDALS SHRI SANT GADGE BABA COLLEGE OF ENGINEERING AND TECHNOLOGY BHUSAWAL

HINDI SEVA MANDALS SHRI SANT GADGE BABA COLLEGE OF ENGINEERING AND TECHNOLOGY, NEAR ZTC, BHUSAWAL 425203, DISTRICT JALGAON, MAHARASHTRA
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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Hindi Seva Mandal's Shri Sant Gadge Baba College of Engineering and Technology (SSGBCOET), Bhusawal is a self financed unaided linguistic (Hindi) minority institute in Maharashtra State providing technical education in various disciplines of engineering. It is permanently affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere and all the courses are approved by All India Council for Technical Education (AICTE), Directorate of Technical Education (DTE). Institute also holds the status of 2(f) and 12 (B) from UGC.The Trust, Hindi Seva Manadal was established in 1950 by the hands of Late. Prime Minister Shri. Lalbahadur Shastri.The institute has been established in 1998 with aim of delivering quality engineering education by walking on the principles of great social reformist Shri Sant Gadge Baba to create technically qualified professional capable of making significant changes in individual's life and contributing for social empowerment. SSGBCOET offers seven undergraduate programs , six post graduate programs including MCA and institute's two research labs are recognized for Ph.D. program. SSGBCOET's infrastructure consists of individual state of art buildings for every department with ultra-modern facilities, digital classrooms, sports areas, WiFi campus, e-governance, CCTV surveillance and networking with high class IT infrastructure.

 Institute has established Apple lab which is the only lab in the region. The institute has well ventilated spacious as well as air conditioned smart classrooms equipped with modern teaching learning tools and laboratories with world-class facilities for strengthening quality experiential learning. Institute also maintains a holy place namely "SHANTIDHAAM" to hold activities for spiritual, emotional, ethical and social values enrichment of students, staff and society. Training and Placement Cell of the institute prepares students with all the necessary skill sets in terms of technical knowledge, interpersonal skills, communication, and leadership to get them placed in highly reputed companies. Three courses of SSGBCOET were accredited by the National Board of Accreditation during 2012. Also the institute has been accredited by NAAC from 08th February 2019 to 07th February 2024. Experienced and well retained staff of the institute is actively involved in research, consultancy and development activities. Students of the institute are participating and winning laurels in international and national competitions.

Vision

To impart quality education among students by enhancing their learning aptitude and gearing up them with intellectual, physical, analytical and practical capabilities.

Mission

To build up engineers who will inherit the future so as to meet the needs of commerce and industry by providing human resources with required knowledge, skills and disseminating development along-with transferring technology.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Management having a strong vision, desire and commitment towards developing the physical and human infrastructure of the Institute.
- Decentralization and participative hierarchy in administration, academics and finance
- Devoted and well retained dedicated faculty members.
- Effective Teaching and Learning Process.
- World class infrastructure, spacious laboratories equipped with ultra modern instruments, High end ICT facilities with dedicated Apple Lab.
- Separate Library building with large number of books, journals, magazines, e journals of national and international repute.
- Students clubs for Robotics, Automotives and coding activities.
- Participation of Students and laurels won at International and National level.

Institutional Weakness

- Constraints in updating curriculum being an affiliated Institute.
- Being in rural area, extreme efforts needs to be put to call companies for placements.
- The demand and rush towards IT Sector has caused a imbalance in admissions of core engineering branches.

Institutional Opportunity

- Achieving higher grades and achieve autonomous status
- Collaboration with reputed national/international universities and institutes.
- Apply for Schemes funded by organizations like, DBATU, AICTE, UGC and DST

Institutional Challenge

- Reducing the attraction of metro cities in students community for education.
- Financial capacity related issues of students in paying their annual college fee.
- Increasing the percentage of placing students.
- Counseling and increasing the number of students appearing for competitive examinations.
- Counseling and attracting students for admissions in core branches.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The institute is a self-financing, linguistic minority, university affiliated institution and follows the curriculum and syllabus prescribed by Dr. Babasaheb Ambedkar Technological University, Lonere. The institute ensures effective implementation of teaching and learning process by proper planning and its effective implementation. Principal along with many senior faculty members of the institution have representations in the University level committees and actively contribute in the university work and policy implementation. To strengthen effective

implementation of teaching and learning the institute periodically conducts various audits like Academic Audits, Student Feed Back, Staff Feed Back, Staff Appraisals and Parents Feed Back. Expert lectures and seminars by experts from industry are arranged and academia Supplementary enrichment programmes are arranged for value addition for the students. Staff member uses innovative ICT based teaching methods to make the class room teaching more inclusive. Academic calendar is prepared to help faculty members to plan their respective course delivery and undertake academic and other activities. Students and staff enroll in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. The Institute addresses cross cutting issues relevant to gender. Boys and girls are encouraged to work together in various curricular (laboratory, classes and group project work), co-curricular and extracurricular activities. Students of the institute undertakes project work/field work / internships as prescribed in syllabus.

Teaching-learning and Evaluation

The Institute has developed a sound and effective teaching learning & evaluation process. Student centric methods to make the Teaching Learning process more effective for the holistic development of students through Experiential learning, Participative Learning and Problem solving Methodologies are adopted. Admissions are done according to rules of Admission Regulatory Authority (ARA) and Directorate of Technical Education of Maharashtra State. Eligible students are supported with different government and non-government scholarships as per state and central government norms. Students are encouraged to participate in workshops, expert talks and seminars organized by various professional societies, esteemed institutes and industries. Academic calendar in tune with university calendar is prepared. Students performance is regularly evaluated. There are two assessments at SSGBCOET one is End Semester Examination (ESE) and another is Continuous Internal Assessment (CIA). The SSGBCOET is keen to address grievances related to assessments (both ESE and CIA). Students have multiple channels to raise their grievances including the subject teacher, Head of the Department, CEO/CoE and Principal. The course outcomes are clearly defined using Bloom's taxonomy for all academic programmes and courses of the Institute. Attainment of POs and COs are evaluated.

Research, Innovations and Extension

Staff of the institute regularly participates in research, development and consultancy activities. Good amount of grants are received to institute from Government and non-governmental agencies for consultancy/research projects / endowments during the last five years under the RGPS and VCRPS and many more. The Institute has Research Labs for Mechanical and Electronics & Telecommunication engineering, also it has state of art APPLE iMac Lab the only in the region. From the year 2021-2022 Institution Innovation Council is established with ID- IC202217963, under which different activities related to Innovations are being carried out. Institute regularly conducts workshop/ FDPs and Expert lectures on IPR, Innovation and Ideation. Dedicated Robotics, Automotive and Coding Clubs are established by students and supported by institute. Students have participated in different international and National competitions and won the laurels too. Staff member regularly publishes papers and participates in FDP, workshop and conferences. Faculties are having patents and copyrights registered against their name. Institution IPR Cell actively carries our various activities. Institute is member of National Digital Library of India (NDLI) Club and conducts related events for faculties and students regularly. Institute's NPTEL-SWAYAM Local chapter encourages enrolment of students in courses related to Innovation, Intellectual Property Rights and Entrepreneurship. Institute is also Remote Center for conduction of Workshop under the PMMMTTT Scheme and NMEICT Scheme with IIT Bombay and IIT Kharagpur.

Students are participating in Hackathon like SIH, KAVACH. Institute regularly arranges outreach activities to make the best possible effort to bring about social and economic transformation of neighborhood community and sensitize the students to social issues for their holistic development. Many prestigious organizations have conferred awards on institute as well as staff members of the institute for extraordinary contribution in technical, administrative, environmental and social fields. Institute is working hard for holistic development of students by signing MoUs and making linkages with institutions and industries.

Infrastructure and Learning Resources

Institute comprises of state of art infrastructure with separate buildings for each department, administration, amenities and well planned beautiful landscaping. The complete campus is situated on the bank of Tapti River surrounded with natural landscapes and water bodies. Institute is having adequate number of class rooms, tutorial rooms, departmental laboratories, research laboratories, language laboratory, workshops, computer centre, seminar halls, main central library with complete furniture and advanced equipments necessary for quality teaching learning process. Smart Boards and LCD projectors are installed in Classrooms. The institute has established APPLE Lab which is the only lab of this kind in the region. Institute is under networking, Wi-Fi and CCTV. The central library is well equipped with large volume of books, e-facilities, reading rooms and automated using integrated management system. E-Journals, print-Journals and periodicals are made available in library. SSGBCOET's Central Library is one of the initiator in whole Maharashtra to introduce RFID system in library to introduce automation. Central library is named after the then secretary of Hindi Seva Mandal as Late. Shri.D.D.Sharma central library. It provides a rich collection of specialized library resources, services to support students' academic work and enrich their research skills. The institute is equipped robust servers and internet accessibility along with more than five hundred computers. Institute has an exclusive Computer Centre for knowledge acquisition and internet browsing with high-speed internet connectivity. The institute is equipped with indoor and outdoor sports facilities. Twenty four hours power backup is provided with Dedicated HV Line and enough generators for uninterrupted power supply throughout the seasons. Common room with sanitary vending machine and disposal system is available for girls students. The Institute conducts various co-curricular and extracurricular activities. Open amphitheatre and closed auditorium with Modern facilities is also there. Infrastructure and Learning Resources are well maintained.

Student Support and Progression

Excellent students support mechanism is in existence at SSGBCOET. Eligible students are supported with different government and non-government scholarships as per state and central government norms. Capacity development and skills enhancement activities in the areas of Soft skills, Language and communication skills, Life skills (Yoga, physical fitness, health-hygiene and self employment and entrepreneurship) and Latest trends in Technology. Fully functional Training, placement and entrepreneurship cell regularly holds activities to guide students about competitive examinations and career counseling. Many students are benefitted by these activities. Startups are initiated by students of SSGBCOET. Transparent mechanism is there for addressing of student grievances including sexual harassment and ragging cases. Anti Ragging, Internal Complaint and women grievance Committees are formed and effectively functional. Women's Development Cell regularly arranges activities to address various issues related to female staff and students. Good volume of students has found their career path through the efforts of Training, placement and entrepreneurship cell. Cell has given ample placement opportunities, trainings and incubated many ideas. The alumni association was registered in 2019 with register no. MAHA/20844/Jalgaon/0000047/2019 dated 24-01-2019. Institute regularly arranges activities through alumni cell to pave an opportunity for the alumni to meet other alumni and cherish their past

experiences and moments with existing students.

Governance, Leadership and Management

SSGBCOET has a well-defined Vision and Mission that discourses the requirements of all its stakeholders.SSGBCOET was established with a prime objective of providing quality education following the principles of Shri Sant Gadge Baba. The governance and management of the institute is decentralized, democratic and the leadership is participatory. The institute has various committees for disseminating the power and authorities. The functions of the institution and its academic and administrative units are governed by the principles of Decentralization and Participative management Teachers, students and other stakeholders of the institute are involved in the decision making and policy implementation process through various platforms and committees. The institute has implemented e-governance in areas of admission, administration, finance and accounts and examination etc. Effective deployment of the institute perspective plan can be seen from the overall growth of the institute during previous years. The organizational structure of the institution is headed by the Management. The Governing Body is constituted as per the guidelines of competent authorities. As per the guidelines are given by the management, academic and administrative departments are led by the Principal, and Head of Departments. Internal Quality Assurance Cell (IQAC) chaired by the Principal works to monitor the quality of education in the institution. Regular meetings of IQAC were held. Internal and external academic audits are done. The institution has effective welfare measures for teaching and nonteaching staff like gratuity, group insurance, maternity leaves etc and avenues for career development/progression. Financial support is provided to staff to attend conferences/workshops. Members of teaching and non-teaching staff regularly participate in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs. Institution has strategies for mobilization and optimal utilization of resources and funds and it also conducts regular financial audits.

Institutional Values and Best Practices

The institute conducts regular gender equity promotion programs. Guest speakers from prominent fields are invited to speak on the various topics, which highlights the importance and contribution of women in society. SSGBCOET, Bhusawal has constituted a Women's Grievance Cell. Institute is keen on providing equal opportunities to all individuals irrespective of gender, religion, national or social origin, birth or other status. Internal Complaints Committee (ICC) is functional. Equal opportunity is given to girls students in all sorts of programs and activities arranged at the Institute. Ample women staff members are there on different committees handling the important responsibilities in the Institute. The institute has adopted various measures to maintain a green campus through plantation. Categorization of plantation is also done and signage is displayed. Clean and filtered drinking water facility is available in the campus. Institute is having ground water recharging pits for terrace water. Rain water of terrace is diverted to the ground water recharge pits. Institute has adopted certain Best Practices like Adoption of Emerging Technologies with the help of Collaborative Training programme and Embracing Robotics, Computational Thinking Through Participative Learning. The institute every year organizes a number of functions in the campus to boost tolerance and build cultural, regional, linguistic, and communal socio economic harmony. The institute is recognized for its distinctiveness in producing Engineers as catalyst to social reforms using latest technology by achieving the exact balance between technology and Indian Knowledge system principles.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	HINDI SEVA MANDALS SHRI SANT GADGE BABA COLLEGE OF ENGINEERING AND TECHNOLOGY BHUSAWAL
Address	Hindi Seva Mandals Shri Sant Gadge Baba College of Engineering and Technology, Near ZTC, Bhusawal 425203, District Jalgaon, Maharashtra
City	Bhusawal
State	Maharashtra
Pin	425203
Website	www.ssgbcoet.com

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Rahul Bhalch andrappa Barjibhe	02582-224364	965704444	-	rahulbarjibhe@yahoo.com
IQAC / CIQA coordinator	Girish Ashok Kulkarni	-	9970052498	-	girish227252@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular Day

Recognized Minority institution

If it is a recognized minroity institution	Yes Minority_Certificate_SSGBCOET.pdf
If Yes, Specify minority status	
Religious	
Linguistic	Hindi
Any Other	

Establishment Details

State	University name	Document
Maharashtra	Dr. Babasaheb Ambedkar Technological University	View Document
Maharashtra	Dr. Babasaheb Ambedkar Technological University	No File Found
Maharashtra	North Maharashtra University	View Document

Details of UGC recognition

Under Section	Date	View Document
2f of UGC	04-08-2023	View Document
12B of UGC	04-08-2023	View Document

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)

Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-04-2018	12	For Academic Year
AICTE	View Document	10-04-2018	12	For Academic Year

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	Yes
If yes, name of the agency	NATIONAL ASSESSMENT AND ACCREDIATION COUNCIL
Date of recognition	08-02-2019

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	Hindi Seva Mandals Shri Sant Gadge Baba College of Engineering and Technology, Near ZTC, Bhusawal 425203, District Jalgaon, Maharashtra	Rural	25	40000

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Engineering,Mechanical Engineering	48	HSC SCIENCE	English	60	1
UG	BTech,Engineering,Electronics And Telecommunication Engineering	48	HSC SCIENCE	English	30	9
UG	BTech,Engineering,Computer Science And Engineering	48	HSC SCIENCE	English	60	57
UG	BTech,Engineering,Electrical Engineering	48	HSC SCIENCE	English	60	15
UG	BTech,Engineering,Computer Science and Engineering Data Science	48	HSC SCIENCE	English	60	55
UG	BTech,Engineering,Civil Engineering	48	HSC SCIENCE	English	60	12
UG	BTech,Engineering,Electronics and Computer Engineering	48	HSC SCIENCE	English	60	29
PG	Mtech,Engineering,Computer Science and Engineering	24	B.E. OR B.TECH.	English	18	4

PG	Mtech,Engineering,Construction Technology and Management	24	B.E. OR B.TECH.	English	18	13
PG	MCA,Engineering,MCA	24	ANY GRADUATION	English	60	8
PG	Mtech,Engineering,Design Engineering	24	B.E. OR B.TECH.	English	18	1
PG	Mtech,Engineering,Electrical Power Systems	24	B.E. OR B.TECH.	English	18	0
PG	Mtech,Engineering,Communications Engineering	24	B.E. OR B.TECH.	English	9	3

Position Details of Faculty & Staff in the College

	Teaching Faculty											
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	2				15				40			
Recruited	2	0	0	2	15	0	0	15	40	0	0	40
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				49
Recruited	44	5	0	49
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				21
Recruited	21	0	0	21
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	2	0	0	5	2	0	9	2	0	20
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	8	0	0	21	8	0	37
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers									
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	**Male**	**Female**	**Others**	**Total**
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	636	1	0	0	637
	Female	266	0	0	0	266
	Others	0	0	0	0	0
PG	Male	28	0	0	0	28
	Female	20	0	0	0	20
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	90	91	91	78
	Female	39	44	49	40
	Others	0	0	0	0
ST	Male	16	11	8	4
	Female	6	3	3	5
	Others	0	0	0	0
OBC	Male	304	274	297	274
	Female	127	121	141	168
	Others	0	0	0	0
General	Male	301	325	313	271
	Female	98	103	128	146
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		981	972	1030	986

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	To promote activities in the field of Robotics, Automotives, Electric Vehicles, Coding and other emerging technologies, a multidisciplinary culture is fostered in our institute. During last decade our students have participated in many International and National Robotics Competition-Events and won the laurels too. Combat Robots of different size and weight categories are manufactured in Institute through different Robotics Clubs. Incubation of Professional Drones is also initiated. Students are exploring interdisciplinary and multidisciplinary courses under the NPTEL programme with Local Chapter initiative. Apart from that SSGBCOET follows the curriculum provided by DBATU, Lonere

	which includes wide range of open electives to be opted from other disciplines. In addition, DBATU, Lonere has the provision of major electives from same discipline and minor electives from other disciplines. Institute has well-equipped laboratories and trained faculty members to conduct the elective courses. Our institute is authorized resource learning center of Huawei Company which is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. Our institute is also ICT academic partner of Huawei. Till date many students have completed multidisciplinary courses from Huawei academy in institute. Our institute is also a resource learning center of IIT Bombay under which we have conducted many courses. Recently institute have established dedicated lab of Apple iMac PC's and keenly looking ahead to get status of Apple Authorized Training Center. Collaborating with tech industries like Infosys, TestBook, Tata Strive, TCS, RedHat, Barclays and many more, Institute runs activities to strengthen multidisciplinary and interdisciplinary skills of SSGBians.
2. Academic bank of credits (ABC):	ABC id's of all students of institute have been generated and sent to university for further process of National Academic Depository(NAD). Currently our institute is affiliated with University DBATU, Lonere and does not have direct Academic Bank of Credit facility. However, NPTEL course credit transfer facility is available in DBATU, Lonere curriculum. We have established NPTEL local chapter and at SSGBCOET we encourage faculty members and students to learn and complete varied courses from this platform. Institute has initialized the process of registering students for Academic bank of credits (ABC) in co-ordination with University. Students get the benefit of credit transfer after successfully passing relevant NPTEL course.
3. Skill development:	Institute has signed MoU's with Skill academy by TestBook, Infosys Springboard by Infosys, Tata Group and few local industries for skill development activities. As an affiliating institute, we follow the prescribed curriculum of Dr. Babasaheb Ambedkar Technological University, Lonere. Mini/Minor Projects, site visits, Internship, training, project development is also the part of curriculum which provides industry exposure and way of skill

	development to students. In addition to that our institute provides opportunity to students to register for additional value added courses for skill development. Multidisciplinary Clubs in our institute also provides ample opportunities to students to groom test and demonstrate their skills on professional level. Institute also arranges different activities for overall development of students.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Hindi Seva Mandal, Bhusawal is a trust formed 75 years ago to inculcate Social and Educational Values with the help of Indian Knowledge System for sensitizing the core values according Indian tradition. Our Institute is managed by Hindi Seva Mandal. Indian tradition and culture is promoted through conduction of various extra-curricular and social activities like Shri Sant Gadge Baba Punyatithi, International Yoga Day celebration, Birthday Celebration of national leaders and different festivals at institute. The medium of instruction is English but still faculty members take enough efforts to explain the things in regional language. Library is also having good collection of regional books. Daily regional newspaper is also available in the central library. We at SSGBCOET take good efforts to for integration of Indian Knowledge System. Recently institute has completed the renovation of old Lord Shri. Ram Mandir which is situated on the banks of Tapti river where Hindi Seva Mandal have preserved (holy remains) "Asthi-Kalash" of the great saint and social reformer Shri. Sant Gadge Baba. This place known as Shanti-Dham will be a holy center to spread values among people by building faith in Indian Traditions and Ancient Knowledge Systems.
5. Focus on Outcome based education (OBE):	We follow prescribed curriculum of Dr. Babasaheb Ambedkar Technological University, Lonere which is developed to implement educational effectiveness according to Outcome based education (OBE). SSGBCOET is keen on development of students though Outcome Based Education. At SSGBCOET instructional materials are selected, teaching methods are adopted, and evaluation is conducted to implement Outcome based education (OBE). Program Outcomes (POs), Program Specific Outcomes (PSOs) of all programs are defined and disseminated properly among all stake holders. Course Outcomes (COs) of each course are also framed. Further CO-PO mapping and attainment of

	COs with POs and PSOs is regularly computed and appropriate action is being taken.
6. Distance education/online education:	At SSGBCOET, we have availed many different ways to students for Distance/Online education through Authorized resource learning center of Huawei company, IIT Bombay's Resource Learning Centre, NPTEL Local Chapter in the institute. Student and faculty members are encouraged to upgrade their skills using various online courses provided by them. Also SSGBCOET is having good internet bandwidth and modern IT infrastructure for delivery of online lecturers using various online platforms. Apart from this, regular online lectures of industry experts and educators are arranged by the institute.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes Electoral Literacy Club (ELC) has been set up in our institute having representation of coordinating faculty member and student's executive committee.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	Yes Electoral Literacy Club SSGBCOET, Bhusawal Nodal Officer: Prof. R.A.Agrawal Campus Ambassador/ Convenor Dr. S.U.Chaudhari Student's Executive Committee: Coordinator: Lisha Siddharth Kedare (Civil Engg) Executive members: 1. Neha Ravindranath Kharat(CSE DS) 2. Janavi Manoj Pandole (CSE) 3. Vaibhav Vilas Rane (Electrical) 4. Kalpesh Ramesh Bharambe(Mech) 5. Kunal Vikas Patil(Electronics and computer) 6. Kaushal Rajendra Patil (E&TC)
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	SSGBCOET's ELC puts efforts in promoting importance of democratic values and vigilance among students through various activities and programs. The basic objective of this club is to promote awareness about electoral citizenship among students, staff through in-campus activities/events, and among the common public, through extension activities. It also aims to educate students about their democratic rights including the right to vote. Different activities arranged are 1. "Yuva Samvaad Program" - Voter Awareness Campaign in coordination with representative of Election

	Commissions of India. 2. New Voter-Id Registration Camp.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.	Awareness Drives and street plays are conducted. Institute believes in Shri Sant Gadge Baba's message about social equality and so reaches to community to promote awareness about electoral citizenship and importance of democratic values among students, staff and society. Institute is also looking ahead to carry research projects, surveys, awareness drives, creating content, publications to help sense of social justice though electoral citizenship.
5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.	The Institute is keen to enroll students above 18 years who are yet to be enrolled as voters in the electoral roll on priority basis. Institute conducts programs to sensitize students about Importance of Voting in Democracy. Programs like "Yuva Samvaad Program" - Voter Awareness Campaign in coordination with representative of Election Commissions of India and New Voter-Id Registration Campaign has been arranged.

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
981	972	1030	986	1074

File Description	Document
Upload Supporting Document	[View Document]()
Institutional data in prescribed format	[View Document]()

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 72

File Description	Document
Upload Supporting Document	[View Document]()
Institutional data in prescribed format	[View Document]()

2.2

Number of teaching staff / full time teachers year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
57	57	60	73	77

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
207.56	187.85	175.67	231.72	321.45

29-05-2024 02:59:39

File Description	Document
Upload Supporting Document	[View Document](#)

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Response:

SSGBCOET has well defined system for planning and effective implementation of the curriculum.

Curriculum: Being an affiliated college of Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere, we follow the curriculum prescribed by the university. This curriculum is revised periodically by the university Board of Studies. The curriculum gaps are identified and activities are planned to overcome the gaps. As we are approved Institute of the AICTE New Delhi, model curriculum and the courses prescribed by AICTE and not covered by DBATU are offered as Value added courses or addressed through topic beyond curriculum.

Academic Calendar: The DBATU, Lonere publishes the University Academic Calendar for both the semesters. Institutes's academic calendar in prepared in tune with affiliating university calendar, providing details regarding date of commencement of academic session, duration of semester, period of internal assessments and semester end examinations in an academic year.

Curriculum Delivery Plan and Implementation : The curriculum delivery plan meets the OBE components like POs and COs as defined by regulatory bodies and departmental committees. The measures are

1. Department heads in consultation with department faculty members decides about departmental activities
2. Based on the skills and interest of faculty, subjects are allocated by the HOD before the beginning of every semester.
3. The Faculty prepares the teaching Plan, notes, assignment topics, question bank and papers. They are verified by HOD.
4. Institue have implemented concept of yellow book for evaluating progress in practical sessions
5. Periodically, the status of portion completion is monitored by the HOD.
6. Online feedback is collected from students

Process of Monitoring

- Periodically verification of the quality of delivery process is done with the help of regular audits like Course file audit and monitoring the attendance and syllabus coverage and corrective measures are taken for any deviation observed.

Conduct of Internal Assessment: To ensure the institute strictly complies with the university academic calendar accommodating all planned activities. The Institute academic calendars help faculty members to plan their respective course delivery and undertake academic and other activities. Department heads closely supervise and monitor completion of the syllabus as per the lesson plan prepared by faculty members. Portions for each CIE are decided well in advance and faculty members are required to stick to it.

File Description	Document
Upload Additional information	[View Document](#)

1.2 Academic Flexibility

1.2.1

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

Response: 57

File Description	Document
List of students and the attendance sheet for the above mentioned programs	[View Document](#)
Institutional programme brochure/notice for Certificate/Value added programs with course modules and outcomes	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Evidence of course completion, like course completion certificate etc. Apart from the above:	[View Document](#)

1.2.2

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

Response: 67.3

1.2.2.1 Number of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
739	676	669	634	676

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.3 Curriculum Enrichment

1.3.1

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum

Response:

Response:

Issues related to Gender:

The Institute addresses cross cutting issues relevant to gender. Boys and girls are encouraged to work together in various curricular (laboratory, classes and group project work), co-curricular and extracurricular activities. No discrimination is made between boys and girls while forming committees and doing nominations.

Issues relevant to Environment and Sustainability, Human Values and Professional Ethics:

DBATU, Lonere prescribes various compulsory courses in the curriculum of various semesters which address issues relevant to Environment and Sustainability, Human Values and Professional Ethics.

1. Professional Ethics and Human values

- In view of promoting the professional ethics among the engineering graduates the DBATU, Lonere has introduced Business Intelligence , Basic Human Rights , Economics and Management as a course in curriculum

- Even though it is in academic curriculum the college takes efforts for integration of ethical and human values through extracurricular activities such personality development, yoga, meditation etc.
- Different activities like guest lecture, seminar and workshops relating to the professional ethics and human values have been organized for students.
- Different social activities have been initiated by the college like Health and Hygiene awareness programmes, Medical check-up camps, Blood donation camps, etc.

- Apart from this, industrial visits are arranged for the students to know about the work culture and practices in the industries. Every year, in summer and winter vacation, the students are encouraged to undergo internship and training in leading organizations. This facilitates the students to get an exposure to a professional environment by solving problems and designing solution professionally.

2.Gender

- Institute's woman empowerment cell has been working consistently for women safety in college campus and other problems related to girl students.
- Numbers of programmes are specially conducted for promoting gender equality.
- Institute has organized various workshops and invited talks on Woman Empowerment, Laws for Woman, Role of Woman in Society, Awareness on Ladies Equality, Motivational Lecture, Awareness about Sexual Harassment of Woman at workplace etc.

3. Environment and Sustainability

The subjects like Environmental studies, Renewable Energy Sources , Solar Energy, Waste Water Engineering, Environmental Impact Assessment are provided to the students to make them to learn about the significance of safe guarding our environment. Digitizing the regular activities is encouraged. The usage of plastics is avoided inside the campus. Students are motivated to do more projects related to environment issues and finding solution to that. Clean and Green environment is made inside the college campus. Students are motivated to develop projects which can help to reduce air pollution and sustain a pollution free environment. The innovative ideas for environment and sustainability are published as papers in conferences and Journals. Heavy tree plantaion is done. Green belt is also developed to reduce carbon dating.

File Description	Document
Upload Additional information	[View Document](#)

1.3.2

Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 79

1.3.2.1 **Number of students undertaking project work/field work / internships**

Response: 775

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

1.4 Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website

Response: A. Feedback collected, analysed, action taken& communicated to the relevant bodies and feedback hosted on the institutional website

File Description	Document
Feedback analysis report submitted to appropriate bodies	[View Document](#)
At least 4 filled-in feedback form from different stake holders like Students, Teachers, Employers, Alumni etc.	[View Document](#)
Action taken report on the feedback analysis	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1

Enrolment percentage

Response: 33.07

2.1.1.1 **Number of seats filled year wise during last five years (Only first year admissions to be considered)**

2022-23	2021-22	2020-21	2019-20	2018-19
189	132	148	118	160

2.1.1.2 **Number of sanctioned seats year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
453	453	453	450	450

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list as published by the HEI and endorsed by the competent authority	[View Document](#)
Document related to sanction of intake from affiliating University/ Government/statutory body for first year's students only.	[View Document](#)

2.1.2

Percentage of seats filled against reserved categories (SC, ST, OBC etc.) as per applicable reservation policy for the first year admission during the last five years

Response: 50.07

2.1.2.1 **Number of actual students admitted from the reserved categories year wise during last five years (Exclusive of supernumerary seats)**

2022-23	2021-22	2020-21	2019-20	2018-19
117	59	65	49	57

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
139	139	139	138	138

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Final admission list indicating the category as published by the HEI and endorsed by the competent authority.	[View Document](#)
Copy of communication issued by state govt. or Central Government indicating the reserved categories(SC,ST,OBC,Divyangjan,etc.) to be considered as per the state rule (Translated copy in English to be provided as applicable)	[View Document](#)

2.2 Student Teacher Ratio

2.2.1

Student – Full time Teacher Ratio
(Data for the latest completed academic year)

Response: 17.21

2.3 Teaching- Learning Process

2.3.1

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

Response:

Response:

We adopt student centric methods to make the Teaching Learning process more effective for the holistic development of students through Experiential learning, Participative Learning and Problem solving Methodologies.

The following activities have been adopted by the faculty and they adorn student-centric methods:

Experiential learning:

- **Laboratory sessions**

Institute has set up spacious laboratories in each department. High end tools, measuring instruments, equipments and components are provided to students. Utmost care is taken so that an individual can handle the instruments and kits to enhance experience of experimental learning. Curriculum was designed in such a way that sufficient emphasis is laid on hands-on experiments required for comprehensive understanding of the subjects. The laboratories, software and facilities availed are beyond curriculum.

- **Industrial and Site visits**

Industrial visits and site visits are arranged regularly to understand the practical applicability of knowledge gained and understanding of problem solving meythodologies. We always take our students to various industries in order to make them understand the classroom concepts in a better way.

- **Field works and Internships**

The main motto of Field works/Internships are educational and career development opportunities, providing practical experience in a field/discipline.

- **Industry Oriented Mini Projects**

Students are encouraged to take up any industry oriented application in his/her field of interest in their respective branch/field.

- **Community outreach programme**

Students are taken to community visits under social innovation and practise. We encourage them to understand real world societal problem and try to solve them by application of technology. After visit they should understand and design solutions for at least one problem.

Participative Learning:

- **Expert Talks, Workshops and seminars**

Students are encouraged to participate in workshops expert talks and seminars organized by various professional societies, esteemed institutes and industries.

- **Group Discussions and Role plays**

Students are encouraged to participate in activities like group discussion, to help each group member explore and discover personal meanings of any topic of relevance through interaction with other people.

- **Robotics, Automotive and Coding Clubs**

Students have formed robotics, automotive and coding club. Theses clubs performance at international and national level is the proof of successful implementation of Student centric methods, such as experiential learning, participative learning and problem solving methodologies.

ICT- enabled tools including online resources for effective teaching and learning process:

Class rooms are equiped with smart boards and projectors. High end ICT facilities are availed to staff and students for strengthening teaching learning process in the institute. Faculties utilize ICT tools such as Licensed and open source software for lab and Projects apart from that faculty also uses content-based resources such as MHRD-NMEICT, NPTEL-SWAYAM, Blogs, NDL etc

File Description	Document
Upload Additional information	[View Document](#)

2.4 Teacher Profile and Quality

2.4.1

Percentage of full-time teachers against sanctioned posts during the last five years

Response: 100

2.4.1.1 **Number of sanctioned posts year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
57	57	60	73	77

File Description	Document
Sanction letters indicating number of posts sanctioned by the competent authority (including Management sanctioned posts)	[View Document](#)

2.4.2

Percentage of full time teachers with NET/SET/SLET/ Ph. D./D.Sc. / D.Litt./L.L.D. during the last five years (consider only highest degree for count)

Response: 6.79

2.4.2.1 **Number of full time teachers with NET/SET/SLET/Ph. D./ D.Sc. / D.Litt./L.L.D year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
5	1	2	7	7

File Description	Document
List of faculties having Ph. D. / D.Sc. / D.Litt./ L.L.D along with particulars of degree awarding university, subject and the year of award per academic year.	View Document
Institution data in the prescribed format	View Document
Copies of Ph.D./D.Sc / D.Litt./ L.L.D awarded by UGC recognized universities	View Document

2.5 Evaluation Process and Reforms

2.5.1

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

Response:

At SSGBCOET, an examination cell is constituted every academic year, comprising of a senior Faculty member as College Examination Officer (CEO) / Controller of Examination (CoE), Senior Supervisor, other teaching faculty and non-teaching staff as members for smooth conduction of Mid-Semester Examination and End-Semester Examination. The end semester examination is conducted by DBATU, and the students appear for the examinations conducted in the college. The college follows strictly the guidelines and rules issued by the DBATU while conducting Mid-Sem and End-Sem Examinations. For smoothly conducting the internal assessment test, a department level coordinator/committee is constituted for paper setting and evaluation of answer sheets.

Broadly, as per university examination system, there are two evaluations at our college: (1) Mid Semester Examination and (2) Continuous Internal Assessment (CIA). The End Semester Examination (ESE) is controlled by DBATU. The role of our college is to implement the directions given by DBATU.

The exam-related activities of ESE such as the preparation of question papers, exam supervision, answersheet evaluation, result declaration, etc. are carried out by the university. All information related to ESE is communicated in advance, and the same is communicated to the students accordingly by the Institute Exam Coordinator and also made available on website. The preparation of the question paper, smooth conduct of the Exam, and evaluation are coordinated by Controller of Examination. Remedial Exam is also conducted by DBATU and coordinated by institute according to directions from DBATU. Digital On-screen evaluation of Answer sheets is done by university.

MECHANISM FOR GRIEVANCE REDRESSAL:

 SSGBCOET is keen to address grievances related to assessments (both ESE and CIA). Students have multiple channels to raise their grievances including the subject teacher, Head of the Department, CEO/CoE and Principal for mid-semester internal exam. After End-Semester examination results in case of non satisfaction of the result, student can claim for the photocopy of the answersheet and may apply for re-valuation. The grievances are classified into College Level and University Levels. Students contacts subject teacher and then to HoDs for college level grievances.

The grievances related to DBATU examinations such as revaluation, duration, and relevance of the question are addressed to examination section and the same is communicated to the exam section of the DBATU. Students can communicate to university through their individual logins also.

The Institute has taken the following measures to achieve transparency in the internal assessment process:

- A planned exam schedule in the SSGBCOET Calendar according to instructions from affiliating universuty
- Consolidation and calculation of CIA explained to students at the beginning of the semester and after evaluation (Grievance if any).
- Yellow book to record practical session progress is maintained.
- The CIA schedule and Practical/Oral Question Patterns are circulated to all the students.
- The final 'internal marks' are verified and signed by the concerned class teacher, HoD and Principal.

File Description	Document
Upload Additional information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1

Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

Response:

Response:

- The course outcomes are clearly defined using Bloom's taxonomy for all academic programmes and courses of the Institute.
- The course outcomes are measurable and stated using active verbs (Bloom's taxonomy).
- They are expressed as complete declarative sentences that clearly describe the knowledge, skills, and competencies that students are expected to acquire as a result of completing their course.
- The outcomes are assessed and measured to identify the extent to which goals are accomplished.
- All Program Outcomes have been adequately addressed through the core courses and their Course Outcomes.
- Process of dissemination of Vision, Mission and POs among the stakeholders and it's awareness:
  - The Vision, Mission and POs are published on college website through which it is disseminated to those stake holders who visits these websites.
  - The Vision, Mission and POs are displayed in each department at proper visible places.
- Apart from this, vision & mission statements are informed to all the stakeholders of the programs through faculty meetings, student awareness workshops and student induction programs etc.
- New admitted students are informed about these concepts at induction programs.
- Every teacher, before start of his/her first lecture of the subject, informs course objectives and course outcomes.
- After completion of each unit of the course, teacher again confirms about the CO and tests the students for its attainment.
- COs are displayed on examination question papers
- Students are also informed about the objectives of any new program/ activity conducted for them and how it will be beneficial for them in fulfilling the POs.
- Feedback is taken from students in terms of achievement of POs through academics and other activities conducted in the campus.
- Thus, continuously POs and COs are disseminated to teachers and students.

File Description	Document
Upload Additional information	[View Document](#)

2.6.2

Attainment of POs and COs are evaluated.

Explain with evidence in a maximum of 500 words

Response:

Response:

Attainment of Programme outcomes & Course outcomes are evaluated by mid semester and end semester examinations of students and feedback analysis of faculties. The higher grading and passed student's

percentage at the examination result is a proof of attainment of programme outcome & course outcome, however result analysis is a indicative measure. The understanbility of lectures is important key factor for course outcome. The feedback analysis from students of particular subject suggest corrective measure of course out come.

The insitute always take efforts to complete hundred percent syllabus in the class for better course outcome. In some cases, additional lectures are arranged for completing syllabus.

The tools used for the assessment of POs/COs are as mentioned below:

- **Mid Semester Examination**
- **End Semester Examination**
- **Continuous Assesment**
- **Student Feedback**

File Description	Document
Upload Additional information	[View Document](#)

2.6.3

Pass percentage of Students during last five years (excluding backlog students)

Response: 99.4

2.6.3.1 **Number of final year students who passed the university examination year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
269	297	363	334	386

2.6.3.2 **Number of final year students who appeared for the university examination year-wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
272	300	363	337	387

File Description	Document
Institutional data in the prescribed format	[View Document](#)
Certified report from Controller Examination of the affiliating university indicating pass percentage of students of the final year (final semester) eligible for the degree programwise / year-wise.	[View Document](#)
Annual report of controller of Examinations(COE) highlighting the pass percentage of final year students	[View Document](#)

2.7 Student Satisfaction Survey

2.7.1

Online student satisfaction survey regarding teaching learning process

Response: 3.99

File Description	Document
Upload database of all students on roll as per data template	[View Document](#)

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1

Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 84.82

3.1.1.1 **Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
8.20250	3.39566	18.13389	26.60096	28.48460

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.2 Innovation Ecosystem

3.2.1

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

Response:

Institute Ecosystem is distributed under following categories

- **For Innovation: - Institution Innovation Council (IIC Cell)**
- **For Research – Research Cell with Lab, NDLI Club, Digital Library Initiatives**
- **For Entrepreneurship& Start-up – EDP Cell, Industry Interaction Cell**
- **For IP Strategy - IPR Cell and AICTE-KAPILA committee**

The Institute with its vision and mission in direction of achieving excellence in the field of technical education has Research Labs for Mechanical and Electronics & Telecommunication engineering, also it has state of art APPLE iMac Lab the only in the region, also from the year 2021-2022 Institution Innovation Council is established with ID- IC202217963, under which different activities related to Innovations are being carried out. Faculty are designated as Innovation Ambassadors and spread

awareness and need of innovations approaches. The curriculum also it has a subject course to imbibe the culture of Entrepreneurship and Start-up. Institution has joined the NISP campaign and adopted the NISP-2019 policy. As a part of Intellectual property Rights institute is already associated with (National Intellectual Awareness Mission) NIPAM 1.0 and NIPAM 2.0 mission and also a part of AICTE-KAPILA programme. Faculties are having patents and copyrights registered against their name. Institution IPR Cell actively carries our various activities.

Institute is member of National Digital Library of India (NDLI) Club and conducted events for faculties and students under the domain of technology, entrepreneurship and innovation culture. Institute's NPTEL-SWAYAM Local chapter encourages enrolment of students in courses related to Innovation, Intellectual Property Rights and Entrepreneurship.

For research the library provides access to various National and International Journals in campus on ip-based mode that includes DELNET, Science-Direct and IEEE Xplore, InfLibNET ICT initiative of NMEICT.

Institute is also Remote Center for conduction of Workshop under the PMMMTTT Scheme and NMEICT Scheme with IIT Bombay and IIT Kharagpur.

EDP Cell and Industry Interaction cell has MoU signed with different industries and institutes under which students are benefited for improving skills, technical support and also exchange for internship and technology transfer. Different eminent speakers and innovators are invited to interact with students and faculty members to upgrade the thinking and built a culture.

Students are participating in Hackathon like SIH, KAVACH and many more also in any business idea competition also research competition like Avishkar, YUKTI by MoE along with engaging with many online internships and apply for research grants under the RGPS and VCRPS and many more.

We have filed 04 patents and arranged 25 FDP, STTP, Workshop and Seminarin various departments in the last academic year. Our facultymembers have published 56 research papers in UGC/ Web of Scienceindexed journals in the last academic year. Different activitiesto demonstrate incubate and implement innovative ideas of staffand students are arranged.

File Description	Document
Upload Additional information	[View Document](#)

3.2.2

Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 52

3.2.2.1 **Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
15	12	12	7	6

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.3 Research Publications and Awards

3.3.1

Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.21

3.3.1.1 **Number of research papers in the Journals notified on UGC CARE list year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4	7	3	0	1

File Description	Document
Link to the uploaded papers, the first page/full paper(with author and affiliation details)on the institutional website	[View Document](#)
Link to re-directing to journal source-cite website in case of digital journals	[View Document](#)
Links to the papers published in journals listed in UGC CARE list or	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

3.3.2

Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.13

3.3.2.1 **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
4	5	0	0	0

File Description	Document
List of chapter/book along with the links redirecting to the source website	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of the Cover page, content page and first page of the publication indicating ISBN number and year of publication for books/chapters	[View Document](#)

3.4 Extension Activities

3.4.1

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.

Response:

Considering key aspects of Shri Sant Gadge Baba's social reforms, The Institute makes the best possible efforts to bring about social and economic transformation of neighborhood community, so as to promote overall development and wellbeing of society. The Institute inculcates desirable sensitivity, empathy and the virtue of social participation among all its stake holders. Institute is well aware of its social responsibility and hence it renders community service, especially to marginalized sections. It perceives formal education as an instrument of bringing about positive social transformation which leads to the betterment of social culture and spiritual fabric of human community. The Institute is committed to develop balanced personality of learners who can facilitate the forces of social, economic and environmental growth according to teachings of Gadge Baba.

The endeavor of the Institute is to create engineers with strong domain knowledge with applicability to social needs. The students are sensitized towards humanity so that they understand the problems of society and find out the solutions of issues like poverty, alcoholism, unemployment, female feticide etc. The students try to solve the local problems of communities through various activities like street play and discussion sessions. In an attempt to reach the society, various departments of the Institute organize

social, cultural and spiritual activities. Students are motivated to contribute to various social causes. To create awareness about digital India, staff and students of various forums regularly visit the nearby schools and give seminars on the importance of making India digital and also aware them regarding Cyber Security.

To inculcate the social values and holistic development of the students, the Institute has organized the following events/ programs during last five years:

Helping hands: College students served the nearby under-privileged, poor and orphans by providing blankets, food and educational items at free of cost.

Awareness: The staff and students regularly organized various awareness activity in the Bhusawal and nearby region to increase the awareness among society like importance of Tree Plantation, Say No to Plastic, Save water, Say no to Crackers, Rain Water harvesting & Renewable Energy Sources.

Every year staff and students are actively organizing cleanliness activity under Swacch Bharat Mission. Many other volunteer programs related to Road Safety are conducted by the institute such as Use Helmet campaign. Volunteer programs related to Road Safety and Health are also conducted by the institute, such as Use Helmet campaign, Say No to Tobacco and Health Turbulence.

File Description	Document
Upload Additional information	[View Document](#)

3.4.2

Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Awards, recognition and appreciation play a vital role in acknowledging the hard work and achievements of both staff and students within the institute. These accolades serve as a motivational tool, fostering a culture of excellence and dedication. In the academic realm, numerous awards, recognition and appreciation were captured by our faculty members as well as students. We are delighted to present a comprehensive report highlighting the exceptional achievements, recognition as well as appreciation received by our esteemed faculty members as well as students over the past few years.

Awards from government /government recognised bodies:

Institute was appreciated by various government/ government recognised bodies like Bhusawal Muncipal Corporation, grampanchayat fekari and Jay Ganesh Foundation etc. for extension activities addressing the local and social issues.

Best Principal Award:

Our beloved principal was awarded as a Best Principal by Universal Mentor Association New Delhi. He is also awarded as a best visionary leader of the year by Navbharat, Mumbai for his multidirectional approach.

Best TPO Award:

Recognizing the outstanding performance of training and placement activity in the institute our TPO was awarded as a Best TPO of the Year by Universal Mentor Association, New Delhi as well as by The Maharashtra Association of Training and Placement Officers (MaTPO)

Recognition and appreciation for Staff:

Institute arranges various activities regularly in the Institute for the betterment of our faculties as well as for students, as a result of this institute and various staff members was awarded a certificate of appreciations and recognition from various bodies such as NPTEL, NIPAM, Smart India Hackathon and Innovation Ambassador

List recognition and appreciation

- Recognition as Innovation Ambassador MoE's IIC-MIC Cell.
- Appreciation certificate NIPAM
- Award of Innovation Patent
- Recognized as NPTEL Believer,Enthusiast, Mentor, ELITE, Discipline STAR&Silver Badge,

Innovation Awards:

Our commitment to innovation is reflected through our various Research and Innovation activities awarded to our faculty members. Almost ten faculty completed their Ph.D. by research in recent years.

The list of some patents by our faculty:

- Patent-Solar Powered Foldable Car Rooftop Cover by Dr. S U Chaudhari, Prof. A V Patil, Prof. J. S Chaudhari
- Patent-Flat Plate Collector for Solar Water Heater by I D Paul
- Patent-A Foldable Solar Dryer for Household Purpose by I D Paul, G P Bhole and J R Chaudhari
- Patent-IoT Based Proportional-Integral Sliding Mode Direct Power Control of Double Fed Induction Generator Wind Turbine by S U Chaudhari
- Patent-Solar PV Power Integrated Smart Grid Based Energy Management System
- by S U Chaudhari
- Patent-Tatkal Attendance Monitoring System (T.A.M.S) by I D Paul
- Patent–MATLAB Modeling of Electrical Car with Lithium Ion Battery and Induction Motor by A P Chaudhari

In conclusion, these awards and recognitions serve as a testament to the remarkable talent, dedication, and collective effort of our staff members

File Description	Document
Upload Additional information	[View Document]()

3.4.3

Number of extension and outreach programs conducted by the institution through organized forums including NSS/NCC with involvement of community during the last five years.

Response: 66

3.4.3.1 **Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC etc., year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
15	16	9	13	13

File Description	Document
Photographs and any other supporting document of relevance should have proper captions and dates.	[View Document]()
Institutional data in the prescribed format	[View Document]()

3.5 Collaboration

3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 47

File Description	Document
Summary of the functional MoUs/linkage/collaboration indicating start date, end date, nature of collaboration etc.	[View Document](#)
List of year wise activities and exchange should be provided	[View Document](#)
List and Copies of documents indicating the functional MoUs/linkage/collaborations activity-wise and year-wise	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

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.)

Response:

Response:

The Institute has adequate infrastructure facilities available in the campus in order to maintain the quality of academic facility which includes classrooms, faculty rooms, laboratories, etc. complying with the standards necessitated by AICTE and DBATU. Normally the policy of the Institute infrastructure is conveyed and executed by a committee constituted by the Management/Governing council. The committee confirms a uniform and balanced distribution of space and resources to all departments. It also provides and maintains essential amenities to the faculty and students in a time bound manner.

The Institute has following infrastructural facilities for teaching-learning:

- The Institute is sprawled in an area of 25 acres of land and the total built up area of the building constructed is 40685 sq.mt.
- The Institute comprises of various buildings which accommodates different departments, the library, workshop and the gymnasium.
- The Institute consists of 26 class rooms, 64 laboratories including computer lab in each department, two research and development laboratories, a resource centre, 3 drawing halls and 18 tutorial rooms.
- The Institute has 103 faculty rooms including 7 HODs cabin, 7 departmental offices and a sport office.
- Six seminar/conference halls, Auditorium with air condition facility having 400 seating capacity.
- Air Cooled Central Library is enabled with Wi-Fi facility.
- The campus also accommodates girls hostels, boys hostels, with staff quarters and Principal Bungalow.
- Centralise RO System plant setup for providing drinking water to all campus.
- There are total 598 computers available in institute with Apple lab available.
- CCTV Cameras have been installed in the campus for safety purpose.

Sports and Outdoor games facility: The campus has a huge playground of total area of 4000 sq.mtr. for boys and girls students. For outdoor games and sports, the Institute has running track, cricket ground, football ground, volleyball court, basketball court, tennis court and Kabaddi ground.

Indoor games facility and Gymnasium:

The Institute also has a full-fledged indoor sports facilities such as table tennis, carrom, chess, badminton and basketball.

Cultural Activities: The Institute has clubs/associations/forums which conduct various co-curricular and extracurricular activities. Open amphitheatre with modern facilities.

File Description	Document
Upload Additional information	View Document

4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 16

4.1.2.1 **Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
67.7	56.94	7.16	14.98	33.12

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document

4.2 Library as a Learning Resource

4.2.1

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

Response:

Response:

- The Institute library has been established since the inception of the Institute. The central library is housed in Three-floor having maximum seating capacity of 350.The ground floor comprises of Books stacking section, photocopy section, circulation desk, new arrival section, searching section through Online Public Access Catalogue (OPAC) and CATLOGUE index, reference section, newspapers, bounded volumes
- First floor is having sections such as, Reading room, Reference section, digital library, periodical section, project reports, CD/DVD section, staff reading room and PG section.
- The Institute has a Library Advisory Committee with Principal as Chairman, One HoD as member secretary and faculty member from each department as members. Committee regularly meets and prepares proposals, analyzes the feedback taken by the Librarian from the students and staff and submits the report to Institute authorities for necessary action.

   Some imporatnt features are:

- Wi-Fi facility, Institute Book Bank Scheme, books circulation with Integrated Library Management System software (RFID).
- Access to the library through OPAC.
- Facility of book bank.
- Spacious reading rooms and comfortable seating arrangement

SSGBCOET library holds the rich collection of 46631 volumes of books comprising of 7756 titles. The library has facilities which include 738 Indian journals, 160 International journals, 6 daily newspapers and 1 weekly magazine. Library consists of books for all the departments to encourage the students for higher education and to prepare them for competitive exams. The users of library can access e-journals and e-books of all major publishers like **DELNET, NDLI** etc. The digital library provides online access to e-resources.

File Description	Document
Upload Additional information	[View Document](#)

4.3 IT Infrastructure

4.3.1

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

Response:

Response:

- The Institute has 598 computers with internet connection. Total 45 different types of software are made available for carrying out practical and project works of students. The highly configured system available is Apple IMAC 24",M1/8GB/256GB, 8C & DELL Optiplex 5400, i7 processor with 8 GB RAM and 256 GB SSD, 1TB HDD.
- The Institute has 28 projectors, 04 scanners and 23 printers across all the departments. To cater the need of internet surfing, academic premises are facilitated with Wi-Fi.
- NPTEL video lectures are made available to the staff and students.
- Wi-Fi and Internet facility is provided by private internet service providers like J & D Communication Pvt. Ltd., Air BCN Fibernet and Cable Services and Netsurfer Internet Provider with the bandwidth of 270 Mbps. Bandwidth will be further increased during an ad hoc situation. The computers in the different blocks are inter-connected with LAN. The entire campus including hostel block has various Wi-Fi access points. Regular updation in the IT facilities is done to absorb latest technological changes and to avail high end equipments to students. As per the AICTE norms, the student to computer ratio is maintained as 2.17:1. To carry out research and project activities, highly configured i7 systems are provided in the future tech research centres in the campus. Based on the requirements, necessary software and hardware devices, computer systems and its peripheral devices are purchased.

- Hardware and Software Facilities

S.No.	Item & Configuration	Quantity
1	Number of systems (Students, staff and Admin. Office)	598
2	Number of Systems (Students)	451
3	Computer-student ratio	1:2.17
4	Dedicated computing facility	598
5	Wi-Fi facility-Access Point	14
6	Propriety software / Open source software:	44
7	Number of nodes/ computers with internet facility	598
8	LAN facility :	598

- List of Licensed /Open Source software

S. No.	Name of the Software	Licensed / Open Source
Operating Systems		
1	Win. O.S. -Windows 11 Home OEM	Licensed
2	MAC O.S. - MJV93 WS IMAC	
3	Win. O.S.-Windows 10 Prof.	
4	Win. O.S. Windows 7 Prof. OEM	

5	WIN 2003 SERVER 4.0	
6	FEDORA LINUX 8.0	Open source
7	RED HAT Ent.4.0	
Application Software's and Others		
1	M.S. STUDIO.NET	Licensed
2	MS OFFICE PROF.	
3	I-TEK –LIBRARY SOFT	
4	ANSYS VER.11	
5	M.S. OFFICE 2007	
6	ORACLE 10 G	
7	TALLY ERP 9 Silver	
8	Orell Digital Language	
9	BORLAND TURBO C++	Open source
10	Eclipse	
11	Android Studio	
12	Neurosolutions	
13	LEX & Yacc	
14	OMNET ++ 4.2 and NS, NS2	
15	Turbo C++ IDE	
16	Code Blocks IDE	
17	Weka	
18	MySQL	
19	Scilab	
20	JCreater, Textpad, JDK	
21	MASM 611, MASM 5, MASM for 64 bit	
22	Keil, Uvision	
23	Star UML	
24	gedit/gcc/g++	
25	OpenProj	
26	Gnatt Project	
27	Libre office suite	
28	UBUNTU 12.04	
29	R Studio	
30	Python	
31	Py Torch	
32	PHP	
33	Ruby on Rails	
34	OpenCog	
35	Autocad	
36	Fusion360	
37	EDA Playground	

File Description	Document
Upload Additional information	[View Document](#)

4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response: 2.18

4.3.2.1 **Number of computers available for students usage during the latest completed academic year:**

Response: 451

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	[View Document]()
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	[View Document]()

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 18.97

4.4.1.1 **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2022-23	2021-22	2020-21	2019-20	2018-19
29.84	14.8	12.83	39.15	116.69

File Description	Document
Institutional data in the prescribed format	[View Document]()
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	[View Document]()

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1

Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years

Response: 0

5.1.1.1 **Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
0	0	0	0	0

File Description	Document
Year-wise list of beneficiary students in each scheme duly signed by the competent authority.	[View Document](#)
Upload Sanction letter of scholarship and free ships (along with English translated version if it is in regional language).	[View Document](#)
Upload policy document of the HEI for award of scholarship and freeships.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.2

Following capacity development and skills enhancement activities are organised for improving students' capability

> 1. *Soft skills*
> 2. *Language and communication skills*
> 3. *Life skills (Yoga, physical fitness, health and hygiene)*
> 4. *ICT/computing skills*

Response: E. None of the above

File Description	Document
Report with photographs on Programmes /activities conducted to enhance soft skills, Language and communication skills, and Life skills (Yoga, physical fitness, health and hygiene, self-employment and entrepreneurial skills)	[View Document](#)
Report with photographs on ICT/computing skills enhancement programs	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.3

Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 71.76

5.1.3.1 **Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
784	677	716	690	752

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.1.4

The institution adopts the following for redressal of student grievances including sexual harassment and ragging cases

1. **Implementation of guidelines of statutory/regulatory bodies**
2. **Organisation wide awareness and undertakings on policies with zero tolerance**
3. **Mechanisms for submission of online/offline students' grievances**
4. **Timely redressal of the grievances through appropriate committees**

Response: A. All of the above

File Description	Document
Proof w.r.t Organisation wide awareness and undertakings on policies with zero tolerance	[View Document](#)
Proof related to Mechanisms for submission of online/offline students' grievances	[View Document](#)
Proof for Implementation of guidelines of statutory/regulatory bodies	[View Document](#)
Details of statutory/regulatory Committees (to be notified in institutional website also)	[View Document](#)
Annual report of the committee motioning the activities and number of grievances redressed to prove timely redressal of the grievances	[View Document](#)

5.2 Student Progression

5.2.1

Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 72.88

5.2.1.1 **Number of outgoing students placed and / or progressed to higher education year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
206	217	240	251	295

5.2.1.2 **Number of outgoing students year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
272	300	363	337	387

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File Description	Document
Number and List of students placed along with placement details such as name of the company, compensation, etc and links to Placement order(the above list should be available on institutional website)	[View Document](#)
List of students progressing for Higher Education, with details of program and institution that they are/have enrolled along with links to proof of continuation in higher education.(the above list should be available on institutional website)	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.2.2

Percentage of students qualifying in state/national/ international level examinations during the last five years

Response: 2.89

5.2.2.1 **Number of students qualifying in state/ national/ international level examinations year wise during last five years (eg: IIT/JAM/NET/SLET/GATE/GMAT/GPAT/CLAT/CAT/ GRE/TOEFL/ IELTS/Civil Services/State government examinations etc.)**

2022-23	2021-22	2020-21	2019-20	2018-19
0	3	3	1	6

File Description	Document
List of students qualified year wise under each category and links to Qualifying Certificates of the students taking the examination	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.3 Student Participation and Activities

5.3.1

Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 30

5.3.1.1 *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 wise during the last five years*

2022-23	2021-22	2020-21	2019-20	2018-19
7	5	0	5	13

File Description	Document
Upload supporting document	[View Document](#)
list and links to e-copies of award letters and certificates	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 24.2

5.3.2.1 **Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
29	26	0	21	45

File Description	Document
Upload supporting document	[View Document](#)
Institutional data in the prescribed format	[View Document](#)

5.4 Alumni Engagement

5.4.1

There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

Response:

The SSGBCOET Alumni Association aims to link the alumni to the institution, develop synergistic plans to support the institution and achieve its vision, and to enable the institute to add value to all its stakeholders. The alumni association was registered in *2019* with register no. *MAHA/20844/Jalgaon/0000047/2019* dated *24-01-2019*. The main objective is to enroll all alumni as members of the association and facilitating active participation of the alumnae in appropriate activities, events, and initiatives of the Institute. The alumni association helps in building a network of the alumni and helps in being in touch with the corporate world. Every year Alumni meet is hosted by the Alumni association and supported by the Management   where the alumni from different branches are invited to share their views and suggestions on the scope of their course and also to create awareness about the professional world. This paves an opportunity for the alumni to meet other alumni and cherish their past experiences and moments. The Alumni Association provides an avenue for sharing their intellectual, career and professional experience not only with the teachers but also with the present students.

The Following are the activities carried out with the help of Alumni.

- **Curriculum Enrichment:** Discussion about curriculum is done with alumni and supportive courses/ training sessions are arranged according to inputs.
- **Interactive Sessions:** The alumni association helps in holding interactive sessions to motivate current students about the employability and educational opportunities abroad. They share their opinions in social networks, blogs and forums.
- **Industry connect:** Alumni helps in establishing MoUs with industries. The alumni those who are entrepreneurs arranges industrial visits to the students and provide inputs on how to start a new venture to turning them in to job providers. The Alumni extend their support for student internship.
- **Research and consultancy**: To encourage the students of the college & members of the Association for research & consultancy works in various fields like Engineering, Computers, Industrialization, etc. Alumni helps the departments by directing the entrepreneurs to carry out consultancy works in various sectors of the engineering stream.

- **Mentorship:** Alumni can play an active role in assisting the students in securing suitable jobs.
- **Placements/ References**: The alumni network of a college is one of the biggest sources of placement opportunities to the students. Alumni can help students in referring to companies and get placed at their respective organizations.
- **Administration:** Alumni are members in IQAC and provides inputs for imparting quality system adaptive to recent trends and requirements of industry.

File Description	Document
Upload Additional information	[View Document](#)

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1

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.

Response:

Response:

SSGBCOET has a well-defined Vision and Mission that puts the light on the requirements of all its stakeholders. By instilling human values, ethics, and compassion via quality education, the Management and the College are committed to provide high-quality, value-based education and hope to create high-caliber professionals.

Vision:

To impart quality education among students by enhancing their learning aptitude and gearing up them with intellectual, physical, analytical and practical capabilities

Mission:

To build up engineers who will inherit the future so as to meet the needs of commerce and industry by providing human resources with required knowledge, skills and disseminating development along-with transferring technology.

Nature of Governance

The confluent approach of the College Management, Principal and Faculty develops and implements the quality policy and plans in order to uphold the mission and vision of the college. The Governing Council(GC) is formed as per rules and ordinance of UGC/AICTE. lt is the supreme body, it takes decisions on the basis of the feedback taken from all the Stakeholders. GC along with College Development Committee (CDC) provides guidance for effective functioning of the college as per the guidelines given by various statutory bodies. It works in close collaboration with the Principal to regulate and maintain an amicable and scholastic environment required for this purpose.

Leadership

We firmly believes in strengthening participation of all stakeholders through decentralization & participative management under the leadership of Principal. The top management gives liberty to the Principal along with Internal Quality Assurance Cell (IQAC) Co-ordinator, and Head of Departments to plan, lead and implement all the activities of the Institute through various Committees/cells comprising representatives of all stakeholders as members. Consequently, the practice of decentralization and

participative management is quite evident at all levels. The institution has a mechanism for assigning responsibilities and providing operational autonomy to the various functionaries, thereby increasing the efficiency and improving the quality of the system.

Perspective Plans: A 360 degree perspective plan is prepared by the instiue, which considers important factors i.e. structure, mechanisms and stake holders within the system and their capacity to act, their creativity, the collaboration between them, their confidence, and the coherence of the action with other initiatives. The objective is to ensure the quality and imbibe the culture of excellence and focus on the time-bound goals set for academic, administrative, research and development activities. The entire process is based on participative approach wherein the faculty members, and other stakeholders are involved in the development of plans and its efficient execution. The summery is as follows

Sr. No	Strategic Plan
• 1	Academic Excellence
• 2	Enhance engagement with Industry
• 3	Improve internal support systems
• 4	Enhance alumni engagement
• 5	Contribute to Sustainable Development Goal
• 6	Implementation of NEP in tune with affiliating university
• 7	Aiming for Academic Autonomy

File Description	Document
Upload Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1

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

Response:

Response:

Effective and fully fuctional administrative set up can be observed through different committees and bodies formed by institute to effectively deploy the perspective plan. SSGBCOET employs strategic planning, as the successful execution of the strategic plan is crucial for the ongoing advancement of the institution. Management, Principal and other institutional bodies emphasizes on academic distinction, infrastructure growth, research and development, faculty enhancement, student career progression, and the refinement of assessment and evaluation methods. The institution has a robust strategic plan targeting well-defined goals. This plan is implemented by dissimeminating the powers in different levels and the engagement of stakeholders at multiple levels. The Institute has an IQAC to evaluate the progress of the Strategic Plan and institutional policies and to take remedial actions for achieving long-term goals. The

perspective plan is designed with the institution's vision, mission, and objectives in mind.

Functioning of Institutional Bodies

The organizational structure of the institution is headed by the Management. The Governing Council (GC) is constituted as per the guidelines of competent authorities. As per the guidelines given by the Management, Academic and Administrative departments are led by the Principal and Head of Departments. Internal Quality Assurance Cell (IQAC) chaired by the Principal works to monitor the quality of education in the institution. Various functional committees consisting of staff members and students are formed for administration, academic, student affairs and Research & Development related works which are headed by Senior Faculty.

Adminstrative office section, student section, and account section are headed by the Office superitendant.

Hostel administration is monitored by the Hostel Warden.

Recruitment policy

1. The requirement of teaching staff considering Student-Teacher Ratio / Cadre ratio is calculated as per the norms laid down by AICTE/UGC/DBATU.

2. The recruitment process through university and the local selection committee is as per the norms of DBATU.

3. In case of immediate requirement, faculty recruitment is done by a committee formed by Principal.

4. The recruitment of technical/non-teaching staff is as per the requirement and are on adhoc/contract and regulare basis.

Service rules

It consists of the following clauses:-

1. Probation period

2. Pay-Scale and allowances

3. Appointment subjectivity as per the availability of workload

4. Service books are maintained for all regular staff

5. Adhering code of conduct for any other full-time, part-time job or otherwise

6. Discontinuation of services in case of non-reporting for a stipulated time, breach of the code of conduct after a proper notice period.

Promotional Policies: Internal promotions are subject to the following aspects:

1. Availability of posts and internal eligible faculties

2. Qualification required as per AICTE and university norms

4. Interactions between Principal and Management

File Description	Document
Upload Additional information	[View Document](#)
Institutional perspective Plan and deployment documents on the website	[View Document](#)

6.2.2

Institution implements e-governance in its operations

      1.Administration
      2.Finance and Accounts
      3.Student Admission and Support
      4.Examination

Response: A. All of the above

File Description	Document
Screen shots of user interfaces of each module reflecting the name of the HEI	[View Document](#)
Institutional expenditure statements for the budget heads of e-governance implementation ERP Document	[View Document](#)
Annual e-governance report approved by the Governing Council/ Board of Management/ Syndicate Policy document on e-governance	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1

The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression

Response:

Response:

Various welfare measures are provided for the teaching and non-teaching faculty to ensure their wellbeing and value their contribution towards the progress of the institution.

Teaching Staff:

- Fee waiver to the children of staff working in the Institute.
- Providing training to teachers for excellence in upgrading their credentials and skill sets.
- Motivating Faculty for pursuing higher education.
- Sponsoring Faculty & staff for attending workshops, and conferences at the national level by granting academic leave and financial assistance.
- Faculty members are encouraged/ assisted to undertake professional body membership for active involvement
- Organizing FDPs periodically and regularly.
- Systematic organization of professional society activities.
- Duty leaves for attending University and Institute level assignments.
- Provident Fund, Group Insurance, and Gratuity for eligible Faculty.
- Medical facility is available to meet medical emergencies on campus.
- Medical leave for hospitalized staff members.
- Maternity leave benefits, Paternity leaves, and bereavement leave to faculty & staff.

Non-Teaching Staff:

- Fee waiver to the children of staff working in the Institute.
- Festival advance as and when required.
- Provident Fund, Group Insurance, and Gratuity for eligible Faculty
- Training on soft skills, office ethics and other related issues
- Casual Leaves are provided for all the Supporting Staff.

Faculty appraisal process : The self-appraisal form is filled by the individual staff members and is further forwarded to HOD/Principal and management for evaluation. Assessing the performance is based on the following performance indicators: - The aim of appraisal of faculty performance is to ensure that the program objectives are served best. The following methods are practiced in the college for faculty appraisal:

1. Course Monitoring

2. Student Feed Back

3. Annual Faculty Performance Appraisal

The institution organizes short-term training programs, and guest lectures, FDP's to strengthen the potential of staff which ultimately aids in strengthening the performance of every individual in the organization.

Outcome of review of the Performance Appraisal System :-
1. Performance appraisal system helps to assess and improve an individual's performance and his / her contributions to the departmental / institutional development activities.
2. Case of Staff having unsatisfactory performance (if any) is discussed in college development

committee meeting and appropriate action is taken, if required.

File Description	Document
Upload Additional information	[View Document](#)

6.3.2

Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 69.14

6.3.2.1 **Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
43	41	40	49	51

File Description	Document
Policy document on providing financial support to teachers	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of letter/s indicating financial assistance to teachers and list of teachers receiving financial support year-wise under each head.	[View Document](#)
Audited statement of account highlighting the financial support to teachers to attend conferences / workshop s and towards membership fee for professional bodies	[View Document](#)

6.3.3

Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years

Response: 49.78

6.3.3.1 **Total number of teaching and non-teaching staff participating in Faculty development**

Programmes (FDP), *Management Development Programmes (MDPs)* professional development /administrative training programs during the last five years

2022-23	2021-22	2020-21	2019-20	2018-19
43	39	45	49	48

6.3.3.2 **Number of non-teaching staff year wise during the last five years**

2022-23	2021-22	2020-21	2019-20	2018-19
23	22	28	26	27

File Description	Document
Refresher course/Faculty Orientation or other programmes as per UGC/AICTE stipulated periods, as participated by teachers year-wise.	[View Document](#)
Institutional data in the prescribed format	[View Document](#)
Copy of the certificates of the program attended by teachers.	[View Document](#)
Annual reports highlighting the programmes undertaken by the teachers	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1

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)

Response:

Response:

Institutional strategies for mobilisation of funds and the optimal utilization of resources :-
Institute is a "Self-Financed", non-aided private engineering institute. The major source of receipts is fees from the students. The fee (Tuition Fee and Development Fee) is decided by the Shikshan Shulka Samiti (Fee Regulatory Authority), Government of Maharashtra. Following are additional sources of income to the institute :-
1. Revenue generated through testing and consultancy services by departments.

2. Revenue earned through providing infrastructure facilities for the conduct of various offline and online exams like, various governments competitive exams and exams by private authorities.

3. Remuneration earned by serving as an authorized FC (Facilitation centre) for UG and PG admissions according to the guidelines of regulatory bodies.

The Institute has established as structured system of budgeting for effective allocation of financial resources and budgetary control system to ensure efficient utilization of such resources. Major heads of funds utilization are Staff Salaries, Repair and Maintenance, Purchase of Lab equipment, Books for central

library and conduct of annual events. For the close monitoring of financial resources, account section records all inflow and outflow of fund by maintaining proper books of accounts. Following mechanism is used by the institute for effective and efficient utilization of available financial resources :-

1. After the end of entire admission process, on the basis of total number of admitted students and based on student's fee resources, the accountant prepares interim budget to keep before Principal and governing council.

2. After fruitful discussion, the governing council gives consent to annual budget

3. Re-appropration of budget (if required) is possible with the consent of governing body.

File Description	Document
Upload Additional information	[View Document](#)

6.5 Internal Quality Assurance System

6.5.1

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

Response:

SSGBCOET's Internal Quality Assurance Cell (IQAC) contributes significantly for institutionalizing the quality assurance strategies and processes. It has established systematic Quality Assessment procedures and practices in accordance with required educational standards. IQAC team contributes to quality initiatives in all aspects of teaching, learning, and assessment.

Institute is affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere. IQAC team is keen on implementing and evaluating the changes as prescribed by the affiliating university in curriculum, teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals.

The goal of IQAC is to improve the academic performance, ICT facilities of the Institution and to encourage measures for institutional functioning that will result in quality enhancement.IQAC also keeps

tuning with several Institutional cells and suggest / holds different activities for Quality enhancement of SSGBians. It strives on improving educational quality through various approaches. These are the practices:

1. Academic Audit: The IQAC thinks that audits should be performed on a regular basis to ensure the proper application of academic policies that maintain and sustain excellence. Institute conducts regular academic audit. All Faculty members prepare and organize the course files of designated subjects that includes university syllabus, systematic teaching plan according to prescribed University syllabus, Practical Lab Manuals including Practical Assessment record book, study material and Question papers.

2. Academic Calendar: Institute prepares Academic and Activity Calendar in tune with the University Academic Calendar at the start of the academic year to fit in numerous activities. All academic events are properly planned and reflected in the Institute level Academic calendar. Activity Calendar for several sports and cultural activities is also prepared.

3. Smart-board/Projector/PPT presentations: Staff members are encouraged to make content delivery interactive by using smart-boards and other ICT tools. Several Motivational and guest lectures are also organized using Smart-board/Projector/PPT presentations.

4.Review of Teaching-Learning Process: Institute has a mechanism to review teaching learning process at regular intervals during the academic semester. Student's performances are evaluated by parameters like Interact action during classes, Mid-Semester Examination, Performance in Laboratory, End-Semester Examination and Result.Student's feedback and their performance in examinations are used to evaluate teacher performance.

5. Arranging Activities for Students and Staff Members: In tune with different cells, IQAC is keen about arranging several Workshops, FDP's, co-curricular, extra-Curricular and social activities for student and staff members to improve participative learning.

Institution has witnessed overall improvement in academics, results, ICT facilities, Students and Staff participations, Training and students Placements and other different areas like outreach, collaborative activities and linkages. Incremental improvement in various areas reflects the contributions by Team-IQAC.

File Description	Document
Upload Additional information	[View Document](#)

6.5.2

Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); quality improvement initiatives identified and implemented
2. Academic and Administrative Audit (AAA) and follow-up action taken
3. Collaborative quality initiatives with other institution(s)

    4. Participation in NIRF and other recognized rankings

    5. Any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA etc.

Response: A. Any 4 or more of the above

File Description	Document
Quality audit reports/certificate as applicable and valid for the assessment period.	[View Document](#)
NIRF report, AAA report and details on follow up actions	[View Document](#)
List of Collaborative quality initiatives with other institution(s) along with brochures and geo-tagged photos with caption and date.	[View Document](#)

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1

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

Response:

Gender equity is a fundamental human right which refers to the equal rights, opportunities, and treatment of all genders, regardless of their identity or expression. Gender equality aims to eliminate discrimination and bias based on gender, ensuring that individuals of all genders have the same access to resources, opportunities, and benefits in all aspects of life, including education, employment, healthcare, politics and social participation. The institute conducts regular gender equity promotion programs. Guest speakers from prominent fields are invited to speak on the various topics, which highlights the importance and contribution of women in society.

SSGBCOET, Bhusawal has constituted a 'Women's Grievance Cell' as per the orders of the Supreme Court, 'Sexual Harassment at Workplace Act, 2013' rules with the aim of promoting gender equality and women's empowerment among students and staff members. The cell takes care of the grievances of female members related to gender discrimination, violence, and sexual harassment.

The institute conducts regular gender equity promotion programs. Equal opportunities are provided to all individuals irrespective of gender, religion, national or social origin, birth or other status. Awareness campaigns on women's safety and gender sensitivity through street-plays, rallies, poster presentations are held. Internal Complaints Committee (ICC) interacts regularly with the girl students and resolves the issues addressed by them. Counseling sessions are held. The institution has a dedicated good mentoring system for the students to take care of their academic, emotional, social and cognitive development. Personal Counseling is provided to the students at different levels.

Institute has a separate boys and girls hostel. Washrooms are provided with sanitary napkin vending and disposal machine for the safe and hygienic disposal of sanitary napkins. Common rooms have been allocated for men and women, which facilitate meetings and discussions. There are separate washroom facilities for girls and boys.

Equal opportunity is given to girls students in all sorts of programs and activities arranged at the Institute. Ample women staff members are there on different committees handling the important responsibilities in the Institute. International Women's Day is celebrated every year in which eminent personalities are invited to deliver their expertise about Gender Equity. Apart from the above, Institution has implemented safety and security measures such as CCTV Surveillance and security guards throughout the campus and security arrangement to avoid any discrimination and dispute. Training and Placement Cell provides equal opportunities to the girls students. SSGBCOET believes in – **"No Discrimination"**

File Description	Document
Upload Additional information	[View Document](#)

7.1.2

The Institution has facilities and initiatives for

1. **Alternate sources of energy and energy conservation measures**
2. **Management of the various types of degradable and nondegradable waste**
3. **Water conservation**
4. **Green campus initiatives**
5. **Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Policy document on the green campus/plastic free campus.	[View Document](#)
Geo-tagged photographs/videos of the facilities.	[View Document](#)
Circulars and report of activities for the implementation of the initiatives document	[View Document](#)
Bills for the purchase of equipment's for the facilities created under this metric	[View Document](#)

7.1.3

Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. **Green audit / Environment audit**
2. **Energy audit**
3. **Clean and green campus initiatives**
4. **Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs with caption and date	[View Document](#)
Policy document on environment and energy usage Certificate from the auditing agency	[View Document](#)
Green audit/environmental audit report from recognized bodies	[View Document](#)
Certificates of the awards received from recognized agency (if any).	[View Document](#)

7.1.4

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)

Response:

The institute every year organizes a number of functions in the campus to boost tolerance, harmony cultural, regional, linguistic, and communal socioeconomic. We also organize various activities to increase awareness of social issues, rights, duties and responsibilities. Shri Sant Gadge Baba told the people that they cannot make the progress until they adopt proper education, self-reliance and proper hygiene. Shri Sant Gadge Baba made vigorous social actions and public services contrary to conventional and hollow practices like religious ceremonies, idol worship, offering, etc. He linked intellect, logic and discretion to his vigor and public service. Our Institute fully follows Shri Sant Gadge Baba's philosophy.

Institute celebrates National Library Day on 12th August every year on behalf of birth anniversary of Dr. Rangnathan. Independence Day, Republic day and Maharashtra Day are celebrated by having Flag Hosting Ceremony. Teachers Day is celebrated as birth anniversary of Dr. S. Radhakrishnan on 05th September. Hindi Diwas is celebrated on September 14th to commemorate the adoption of Hindi as the official language of India by the Constituent Assembly of India on this day in 1949.

Engineers Day is celebrated as birth anniversary of Sir M. Visvesvaraya on 15th September. Some technical activities like Debate, Group discussion, Essay writing competition are held on this day. Ganesh-Utsav is celebrated in college campus. This day is celebrated by Ganesha Sthapana. Vishwakarma Jayanti is celebrated by worshiping tools, machinery, and instruments and by offering worship to Lord Vishwakarma.

Reading Inspiration Day is celebrated by offering flowers to photo of Dr. A. P. J. Abdul Kalam. Aayudha Puja is celebrated by offering flowers and worshiping the Instruments, weapons and tools in Laboratories. National Youth Day is celebrated on 12th January. Science Day is celebrated on 28th

February. The day celebrated by arranging activity like Science Exhibition. Some of the students present new innovations by performing practical. Institute celebrates Yoga Day 21st June of by arranging Yoga Session. Social awareness Program and Motivational Programs are organized at nearby High schools and Junior Colleges. The aim of the program is to create awareness about various social issues. These programs are conducted under Swaccha Bharat Abhiyaan.

Institute organizes Tree plantation program at nearby locations of Bhusawal city to cover the open lands by tree. Institute celebrates death Anniversary of Shri Sant Gadge Baba on 20th December by holding Anna Danam program to offer food to the devotees.

Women's Development Cell organizes Female awareness program on the occasion of International women's day. Experts gave lectures on various issues associated with Women. Institute also organizes Blood Donation Camp in association with different social organizations like Indian Red Cross Society etc.

File Description	Document
Upload Additional information	[View Document](#)

7.2 Best Practices

7.2.1

Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice – 1

1. **Title of the Practice: Adoption of Emerging Technologies with the help of CollaborativeTraining programme(Academic / Teaching Learning).**

2) Objective of the Practice:

1. To promote awareness about emerging technologies
2. To build a training and up skilling path for student and faculty
3. To improve performance, productivity and overall efficiency
4. To improvedigital transformation workflows and Transcend the skill gaps
5. To promote more collaborations between the academia and industry through better clarity on Training and Placements.

3) The Context:

   To provide training for acquiring the necessary skills and knowledge for the new technology and up skilling path that starts with a skills assessment.

4) The Practice:

- MOUs with ICT Academy ofHuawei Telecommunications (India) Co Pvt. Ltd.
- Training Programs under APTRON for Web Development and Java Programming.
- Online Training Programs under the ICT Academy of Huawei for HCIA- Cloud Computing Global Certification Courses and HCIA- Cloud Computing Certification Examination on 30th September, 2022.
- Online Training Programs under the ICT Academy of Huawei for HCIA- Cloud Computing Global Certification Courses and HCIA- Cloud Computing Certification Examination on 25th November, 2022.
- Huawei ICT Competition 2021-2022.
- Huawei Certified ICT Associate in Cloud Computing Certification Examinationon 07th April, 2022.

- HCIA-Cloud Computing Certification Examination on 27th June, 2022.
- Online Training Programs under the ICT Academy of Huawei forHCIA-Artificial Intelligence Global Certification Coursesand Certification Examination on 20th October, 2020.
- Online Training Programs under the ICT Academy of Huawei forHCIA-Artificial Intelligence Global Certification Coursesand Certification Examination on 03rd December, 2020.

5) Evidence of Success:

- Staff and students have successfully completed Online Training Programs and certification of Huawei for HCIA-Cloud Computing and AI Global Certification Courses
- Students participated in National Final of Huawei ICT Competition India 2021-2022 on 10th February, 2022.
- Staff and Students have completed certification of different professional courses.

6) Problem encountered and Resources required:

- Prerequisite for Certification Examination at International Curriculum were not available.
- Achieving balance in regular Academics and training schedule.
- Number of Certified Trainers.
- Regular hardware upgradation.

Best Practice - 2

1) Title of the Practice: Embracing Robotics, Computational Thinking Through Participative Learning (Co-Curricular / Extra-curricular).

2) Objective:

1. To improve the technical skills of students and enhance creativity and innovation.
2. To apply knowledge and skills to identify and solve societal and industrial related problems.
3. To provide an introduction to Robotics and Automation including robot classification, drones, design and selection, analysis and applications in industry.
4. To provide the details of operations for a variety of sensory devices that are used on robot, the meaning of sensing, classification of sensor, that measure position, velocity & acceleration of

      robot joint.

5. To familiarize the basic concepts of transformations performed by robot and to perform kinematics and to gain knowledge on programming of robots.
6. To convert the prototype into a commercial model leading to entrepreneurship development.

3) The Context:

The revolutionary change in Science, Engineering and Technology has completely changed the measure of the success of a student from theoretical to applied knowledge. There is a huge transformation from theoretical/analytical projects to projects leading to solutions of real time problems. The Robotics and Drone technology are the most emerging sectors as far as Innovation, Employment and Entrepreneurship is concerned.Robotics and Drones is expected to play a pivotal role in sectors such as manufacturing, healthcare, agriculture, and logistics, contributing to increased efficiency, precision, and safety in various industries. Participative learning paves the way towards effective understanding and knowledge sharing.

4) The Practice:

Enhancing creative thinking of students is noteworthy point of this practice. Efforts taken for the same are mentioned as follows:

1. Two teams are dealing with the Robotics within college campus named as; BlankaBotz and GajCyborg.
2. Technical events are organized to improve professional and technical skills of students to enhance their employability.
3. Various student associations such as CESA, FESA, COMPSA, MESA, ECSA and EESA are actively organizes Technical and non - technical events like Future Technocrats, Techzealot, etc.
4. Robotic teams (BlankaBotz, Gaj Cyborg, Compbotz) of SSGBCOE&T has been participated beyond the campus Events, Competitions, Technical Symposium at National and International levels.
5. Students are encouraged to participate in all activities organized by different recognized Government/ Non-Government bodies.

5) Evidence of Success:

1. **Team BlankaBotz:-**Team BlankaBotz is now recognized as an International Team in Combat Robotics which has not only won almost all major competitions organized by all the IITs, NITs but also won the International Robo-war competitions as "Fighting My Bots", "Clash of Bots", "Kings of Bots" played in various cities of China, "BITVA ROBOTOVE - the International Youth festival" at Russia. The team is also involved in Drones, Gliders, as well as various Robotics competitions as Tasking, Pick & Place, and Racing. Team BlankaBotz is now organizing the various events in collaboration with various IITs & NITs.
2. **Team GajCyborg:-**Team Gaj Cyborg is the second & rising Robotics team of our institute which has won the various competitions organized by the IITs, NITs of Robo wars, Tasking, Pick & Place, and Racing.
3. **Go-Cart:-** Team Gear Lab designed & fabricated the go-cart & participated in the Go-Cart competition at New Delhi where the team won the award for the safe design.
4. **Startup –** Students have come up with startups namely Tiltas Systems, and Technobotix, these

startup deals with drones and combat robots.

5. **Participation –** Increased participation and appreciation in National and International Events.
6. **AICTE Appreciation -** Solar Mud-House Model won Second Prize at AICTE Vishwakarma Award 2019 at New Delhi

6) Problem encountered and Resources required:

Due to time boundness of Course curriculum, constraint of adequate time to perform and engage student for the co-curricular and extracurricular initiatives.

File Description	Document
Best practices as hosted on the Institutional website	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1

Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

SSGBCOET believes in fostering the culture of holistic development of the students. The Vision of the institute is to impart quality education among students by enhancing their learning aptitude and gearing up them with intellectual, physical, analytical and practical capabilities. And so, the student centric activities at the institute are designed for achieving holistic development of the students. SSGBCOET believes in becoming the center of knowledge by achieving the exact balance between technology and Indian Knowledge system principles. Institute believes in producing Engineers as catalyst to social reforms using latest technology.

Institute provides an environment for students so that they can cultivate:

1. Social Awareness
2. Technical Awareness
3. Industrial Awareness
4. Mental and Physical Awareness

1. Social Awareness

Institute is named after India's great social reformer and holy saint Shri Sant Gadge Baba. Sant Gadge Baba was a Great saintly reformist who strived for the material as well as spiritual upliftment of the poor and to eliminate superstition, illiteracy and unsanitary conditions. His emphasis on selflessness, compassion and service reminds students, staff and the society about the importance of extending a helping hand to those in need. To create awareness about great reforming work done by Shri Sant Gadge

Baba and to sow the seeds of Importance of Indian Knowledge System, Institute celebrates Gadge Baba Punyatithi and holds Cleanliness and social awareness programs. The celebration of Sant Gadge Baba Punyatithi on **20th December** every year serves as a platform for sharing these invaluable lessons with younger generations, ensuring that his wisdom lives on. This basically focuses to maintain strong social bondage, to establish national integrity, communal harmony, rights of and importance of education etc. Whole SSGB family is involved with community and expresses those Gadge Baba thoughts and their execution.

In response to the growing need for assistance within the community, our organization initiated a heartfelt endeavour to provide food offerings to orphans and economically disadvantaged individuals. The activity is conducted on the occasion of Shri Sant Gadge Baba Punyatithi every year. All the staff and students enthusiastically volunteers for the programme.

Number of trees planted, maintained green spaces and bio-diversity culture also makes Institute distinctive in following Green practices to reduce carbon dating.

Institute's active engagement in *"Swachh Bharat Abhiyan"* has resulted in tangible improvements in campus cleanliness, community awareness, and student/staff involvement. The institute remains dedicated to promoting a clean and healthy environment, contributing to the larger national goal of a Swachh Bharat. On-going efforts and a continued focus on sustainability will be crucial for sustaining and expanding the impact of these initiatives.

The proud thing for the Institute is that Government of Maharashtra also runs a Cleanliness Program namely *"Gadge Baba Swachata Mission"* on his name.

2. Technical Awareness

SSGBCOET believe that the best Infrastructure and ultra-modern ICT facilities will lead to strong technical development of the students. With this belief, Institute has established World Class Laboratories with ultra-modern instruments and the most important distinctive feature of the Institute is the "Apple Lab". The "Apple Lab" installed by the Institute reflects its strong distinctive thought process about creating a workforce aware about Latest Technical developments. We look forward to be recognized as the "Apple Center of Excellence" through several training and certifications for staff and students.

3. Industrial Awareness

To aware students about emerging trends in Industry, SSGBCOET has established several Technical clubs in the Institute. These clubs are continuously working in the areas of Combat robotics, Drone Technology and Automotives. Institute has signed various MOUs with several MNC's and Institute / organizations of repute for training and resources sharing such as Barclays, Infosys Spring Board, IIT Bombay, BOSCH, Tata Group and many more. Participation of the students in different Inter-National and National Events and Entrepreneurial initiatives by the students makes Institute distinctive from other Institutes.

4. Mental and Physical Awareness

Holy Saint Gadge Baba not only imbibed the importance of Education, but of mental and

Physical strength too. We know that "Young minds with strong mental and physical health can contribute substantially in Nation building", with the same motto, Institute arranges different activities. Different programs, activities and initiatives such as Annual Sports Activity, Yoga Day, Inspirational and Counseling sessions are currently in practice to uplift Mental and physical strength of the students in the campus. Indoor Outdoor games facilities are also provided. A serine Meditation place popularly known as "Shanti Dham" is created in the Campus on the banks of Tapti River.

This 4-way approach to foster Social Awareness, Technical Awareness, Industrial Awareness along with Mental and Physical Awareness in budding Engineers make Institute distinctive. The same distinctiveness reflects in the Mission statement of the Institute as : "To build up engineers who will inherit the future so as to meet the needs of commerce and industry by providing human resources with required knowledge, skills and disseminating development along-with transferring technology".

Due to distinctive culture fostered in the SSGBCOET, students of the Institute are substantially contributing to Industry and the Nation by remaining awake about social and moral responsibilities.

File Description	Document
Appropriate web in the Institutional website	[View Document](#)

5. CONCLUSION

Additional Information :

Major courses in the institute were once accredited by National Board of Accreditation, New Delhi in year 2012. Old Affiliating university i.e.- KBC, North Maharashtra University, Jalgaon, in 2015 awarded SSGBCOET with Grade 'A' for its overall excellent performance in Engineering Education.

Concluding Remarks :

Today SSGBCOET is matching global standards in quality of education and putting behind the debate about urban-rural polarization.Whether it is classrooms or laboratory, sports or cultural activities, the campus or hostel, the students exhibit a spirit of unity and coexistence and all this without compromising on social disciplines. In 2019, Institute was awarded with B++ Grade from National Assessment and Accreditation Council. Institute also holds the status of 2(f) and 12 (B) from UGC. We are proud to share that, we have placed good number of students through Campus Placements in last 5 years. Our alumni are shining in many MNCs, holding good positions, many of them belongs to rural area with complex characteristics. Without exaggeration, we can firmly claim that SSGBCOET is a cradle of excellence and commitment, molding young minds and shaping our youth for a bright tomorrow. Shri Sant Gadge Baba College of Engineering and technology inculcates the value of hard work and diligence amongst its students and faculty enabling them to overcome obstacles in the journey of their future lives with dignity and poise. Participation of students in National and International Competition and laurels won gives us immense sense of satisfaction because the phenomenal performance of SSGBCOET has exceeded the expectations in perception, performance, placements and participation. SSGBCOET is playing the role of the real torch bearer to carry out thoughts of Shri Sant Gadge Baba – A Great Social Reformer.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification
3.3.1	**Number of research papers published per teacher in the Journals notified on UGC care list during the last five years** 3.3.1.1. **Number of research papers in the Journals notified on UGC CARE list year wise during the last five years** Answer before DVV Verification: 	2022-23	2021-22	2020-21	2019-20	2018-19
---	---	---	---	---
28	53	48	59	57 | Answer After DVV Verification : | 2022-23	2021-22	2020-21	2019-20	2018-19
---	---	---	---	---
4	7	3	0	1	 Remark : DVV has made changes as per the report shared by HEI.
3.3.2	**Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years** 3.3.2.1. **Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years** Answer before DVV Verification: 	2022-23	2021-22	2020-21	2019-20	2018-19
---	---	---	---	---
26	11	2	3	3 | Answer After DVV Verification : | 2022-23	2021-22	2020-21	2019-20	2018-19
---	---	---	---	---
4	5	0	0	0	 Remark : DVV has made changes as per the report shared by HEI.
3.5.1	*Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.* Answer before DVV Verification : Answer After DVV Verification :47 Remark : DVV has made changes as per functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and

	collaborative research
4.4.1	*Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)* 4.4.1.1. **Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)** Answer before DVV Verification: <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>31.33</td><td>16.52</td><td>13.30</td><td>41.64</td><td>118.84</td></tr></table> Answer After DVV Verification : <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>29.84</td><td>14.8</td><td>12.83</td><td>39.15</td><td>116.69</td></tr></table> Remark : DVV has made changes as per the Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component
5.1.1	*Percentage of students benefited by scholarships and freeships provided by the institution, government and non-government bodies, industries, individuals, philanthropists during the last five years* 5.1.1.1. **Number of students benefited by scholarships and freeships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years** Answer before DVV Verification: <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>814</td><td>770</td><td>778</td><td>707</td><td>746</td></tr></table> Answer After DVV Verification : <table><tr><td>2022-23</td><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td></tr><tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></table> Remark : DVV has made changes as per the report shared by HEI.

5.1.2	*Following capacity development and skills enhancement activities are organised for improving students' capability*
	
	     1. Soft skills
	     2. Language and communication skills
	     3. Life skills (Yoga, physical fitness, health and hygiene)
	     4. ICT/computing skills

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	Answer before DVV Verification : A. All of the above
	Answer After DVV Verification: E. None of the above
	Remark : DVV has made changes as per the report shared by HEI.
6.3.3	*Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), Management Development Programmes (MDPs) professional development /administrative training programs during the last five years* 6.3.3.1. **Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP),** *Management Development Programmes (MDPs)* **professional development /administrative training programs during the last five years** Answer before DVV Verification: 	2022-23	2021-22	2020-21	2019-20	2018-19	 |---|---|---|---|---|
66	61	73	75	75 | Answer After DVV Verification : | 2022-23	2021-22	2020-21	2019-20	2018-19 | |---|---|---|---|---|
43	39	45	49	48 | 6.3.3.2. **Number of non-teaching staff year wise during the last five years** Answer before DVV Verification: | 2022-23	2021-22	2020-21	2019-20	2018-19 | |---|---|---|---|---|
42	38	41	41	40 | Answer After DVV Verification : | 2022-23	2021-22	2020-21	2019-20	2018-19 | |---|---|---|---|---|
23	22	28	26	27	 Remark : DVV has made changes as per the report shared by HEI.

2.Extended Profile Deviations

ID	Extended Questions
1.1	**Number of teaching staff / full time teachers during the last five years (Without repeat count):** Answer before DVV Verification : 71 Answer after DVV Verification : 72
2.1	**Expenditure excluding salary component year wise during the last five years (INR in lakhs)** Answer before DVV Verification: | 2022-23	2021-22	2020-21	2019-20	2018-19 | |---|---|---|---|---|
186.18	159.12	98.83	167.49	276.89	

Answer After DVV Verification:

2022-23	2021-22	2020-21	2019-20	2018-19
207.56	187.85	175.67	231.72	321.45