Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**SHRI GURU GOBIND SINGHJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, VISHNUPURI, NANDED**
Name of the head of the Institution	**Yashwant V Joshi**
Designation	**Director**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02462-229234**
Mobile no.	**8788199586**
Registered Email	**director@sggs.ac.in**
Alternate Email	**yvjoshi@sggs.ac.in**
Address	**SHRI GURU GOBIND SINGHJI INSTITUTE OF ENGINEERING AND TECHNOLOGY, VISHNUPURI, NANDED-431606 (MAHARASHTRA STATE)**
City/Town	**Nanded**
State/UT	**Maharashtra**

Pincode	431606

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	24-Feb-2005
Type of Institution	Co-education
Location	Urban
Financial Status	state
Name of the IQAC co-ordinator/Director	Dr Manesh B Kokare
Phone no/Alternate Phone no.	02462269183
Mobile no.	9421474393
Registered Email	mbkokare@sggs.ac.in
Alternate Email	mbkokare@gmail.com

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://sggs.ac.in/naac-iqac/

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://sggs.ac.in/academic-calendar/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B++	2.91	2020	14-Feb-2020	13-Feb-2025

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	10-Aug-2018

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Interdisciplinary project for Baja Competition: Won First prizein BAJA SAEINDIA 2020	05-Mar-2020 1	23
Three days short term course on Fundamentals of Accelerated Computing using OpenMP& CUDA C/C++ held during 27th - 29thDecember 2019: The workshop covered basics of parallel computing, difference between multi-core and manycore architectures.	27-Dec-2019 3	150
Workshop on Deep Learning Concepts and Applications:	16-Dec-2019 6	150
Design Thinking Workshop :28-29 Dec. 2019 and 14-15 March 2020: 2-day program was designed to take participants through the process of breaking down a complex problem and turning an idea into an actionable solution and making a business model.	28-Dec-2019 4	65
Alumni Industry Expert Meet22-23 Dec 2019:A gathering of around 100 industry Alumni experts guided the students of all departments. Industry Alumni also promised to conduct Expert lectures and Career guidance sessions in the Institute on regular basis.	22-Dec-2019 2	3000
Research Symposium	08-Jul-2019 2	196

L::asset('/'),'public/').'/public/index.php/admin/get_file?file_path='.encrypt('Postacc/Special_Status/'.$instdata->upload_special_status)}}

View Uploaded File

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Instrumentation Engineering	BRNS	Department of Automic Energy	2020 1095	1367675

Computer Science and Engineering	MODROB	AICTE	2019 730	1000000
Chemical Engineering	Minor Research Project	SRTMU Nanded	2020 730	60000
Production Engineering	ROBOTIC Training Center	STATE Government	2019 730	5000000
No Files Uploaded !!!				

9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View Link](#)
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View Uploaded File](#)
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

12. Significant contributions made by IQAC during the current year(maximum five bullets)

•Institute ranked 4th at all India level in ARIIA rankings 2020 under Govt. and Govt. Aided Colleges/Institutes category due to Quality efforts of faculty and students. •Secured All India Rank 1 with Prize Money 540000/ by Phoenix Team from our institute in BAJA SAEINDIA ATV (AllTerrain Vehicle) 2020 competition at Chitkara University, Ropar (Punjab). This is the effect of interdisciplinary project policy of IQAC. •Prof. Y. V. Joshi, Prof. R. S. Holambe, and Prof S N Talbar for being shortlisted in LEAP programme 2019 –Leadership for Academician Programme of PMMMNMTT (Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) – flagship program envisaged by the MHRD, Government of India. LEAP is fully sponsored programme by MHRD. Prof. Y. V. Joshi has attended the LEAP programme at IIT KGP and IFM Cambridge University Prof. R. S. Holambe has attended the LEAP Programme at IIT BHU and IFM Cambridge University. Prof S N Talbar has attended the LEAP Programme at Aligarh Muslim University and Ohio State University Columbus USA. •In Academic year 201920, Ms Shiradhonkar Vasundhara, Passout 2008 IE batch, Satellite Experiment Infrastructure Engineer at TERMA Group, Darmstadt, Hessen, Germany. She has been selected as the part of European Space Operations Centre, for preparation of interface between Experimentars and Processing Platform and make it secured Satellite Launching. •Sumit Sriram Vijapure awarded with "India 500 Startup Award 2019". This is the achievement of IQAC policy of encouraging students for entrepreneurship during academics in TIEC Cell of institute

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

Plan of Action	Achivements/Outcomes
Induction Program for First Year Engineering Students	Three week induction program was organized for First Year Engineering Students during August . The main aim of this program was to introduce students engineering values and ethics at the begining of their career and get accoustomed with new enviornment of Engineering education system. Based on Jeevan Vidya (Universal Human Values), experts from various disciplines were invited to give orientations to the students.
Examination Reforms	Earlier pattern of Examination was not reflecting continious evaluation, hence there was a need of examination reforms, which will take care of continious evaluation of students. Hence new examination is introduced, which is as follow: 20 marks in semester assessment based on class tests, quizzes, assignments etc., 30 Marks Mid Semester examination and 50 Marks End semester Examination.
MoU with industry associations	MoU with industry associations such as CMIA (MAGIC), Aurangabad and NIMA, Nashik for project internships and incubation.
MHRD's Institute Innovation Council	Institute has set up a Technology Innovation and Entrepreneurship Centre (TIEC) to facilitate innovations. This houses Innovation Laboratory and Engineering Exploration Laboratory. Students are encouraged to take part in different innovative competitions such as Smart India Hackathons, Robotics Competitions, etc. Many training programmes and special programmes such as Design Thinking Workshops are organised. Summer Trainings are regularly organised with a focus on "Converting Idea to Product Design" approach. Earlier, students have won Smart India Hackathons, and this year internal Hackathon was conducted on the similar lines of SIH in which hardware and software problem statements were selected by students. It was a grand

	success and led to enthusiasm among students. This has led to enhancing creativity and imagination of students who boldly are approaching us for start-ups. In the last year, a final year student from CSE has started a start-up company on the campus. It is IT solution provider. Students have done internship in the company. Some other students have started a component delivery company. A few groups of students are taking challenging problems from industries across the globe and providing solutions to them. A few patents have been also filed.
Innovations and Awards	Team Consisting of six students from Third Year and Second Year Engineering participated in Smart India Hackathon 2019(Hardware Edition), which is an initiative of HRD ministry of Government of India to increase the competition among the engineering student to solve the real world problem. This competition was held at Indian Institute of Technology, Delhi during 8 to 12 july ,2019 (5 Day Hackathon). A team of following six students from institute with a team name "DHRUVA_", participated in this competition and won first prize of Rs. 75000/-.

No Files Uploaded !!!

14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Academic Council	28-Nov-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	03-Feb-2020

16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	2020
Date of Submission	17-Jan-2020

17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	The institute has customized MIS in place with different module like Students Admission/ Fee collection, Hostel management, Room Allotment, Examination System with Course Registration and complete result processing with relative grading system. Complete learning Management System (LMS) on Moodle with Attendance management and Online Examination, QUIZ, Assignments, sharing lecture notes/ slides etc. Library Management System with OPAC. Faculty and Staff establishment leave management, Payroll, Procurement management System with Inquiry/ Comparative/ Bill Processing etc.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	202024210	Computer Science and Engineering	02/07/2019
BTech	202050710	Chemical engineering	18/07/2019
BTech	202037210	Electronics and Telecommunication Engineering	10/05/2019
BTech	202089610	Textile Technology	15/07/2019
BTech	202061210	Mechanical engineering	27/07/2019
BTech	202046610	Instrumentation Engineering	17/07/2019
BTech	202060610	Production engineering	15/07/2019
BTech	202024610	Information Technology	15/07/2019
BTech	202029310	Electrical engineering	17/07/2019
BTech	202019110	civil Engineering	17/07/2019
No file uploaded.			

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic

year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
Mtech	All Specializations	01/08/2019	Dissertation work at Industry with skill development programmes	01/08/2019
BTech	All Specialization	01/08/2019	Project work in Industry intership Skill development program	01/08/2019
No file uploaded.				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Python Programming	01/08/2019
BTech	Bockchain Technology	01/08/2019
BTech	Deep Learning	01/08/2019
BTech	Internet of Things	01/08/2019
BTech	Optimization of Technique	01/08/2019
BTech	Digital Fundamentals and Transducers	01/08/2019
No file uploaded.		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	All specialization as mentioned in the curriculum on Institute Website	01/08/2019
Mtech	All specialization as mentioned in curriculum on Institute Website	01/08/2019
PhD or DPhil	Six Engineering Dicipline	01/08/2019

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Professional Electives as mentioned on Institute website	01/08/2019	600

Open Electives as mentioned on Institute Website	01/08/2019	600
No file uploaded.		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Including all specializations	297
Mtech	Including all specialization	90
No file uploaded.		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
Students are required to give feedback for courses regarding the teaching process once in semester. During the course, feedback is taken before the mid semester examination. It mainly focuses on faculty/ instructors performance in conducting a particular course. The purpose of feedback questionnaire is to gather information on the learning experience, as well as students responses to the course and faculty. The questions reflect subjective perceptions of the students on various aspects of the course and the faculty involved in the course. The information provided is useful for the faculty as well as to the higher authorities in the ongoing efforts to enhance the quality of education at the institute. The evaluation results are computed using the rating on a scale of 1 to 5 on parameters such as course organization, teaching effectiveness, delivery of lectures, punctuality, use of audio visual aids, counseling, assessment and overall performance from the responses of students and is communicated to the concerned faculty through the head of the Department. The course teachers whose performance indicators are low, they are counseled by heads of respective departments.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Civil Engineering	60	360	60
BTech	Computer Science and	120	720	120

	Engineering				
BTech	Information Technology	60	360	60	
BTech	Electrical Engineering	30	180	30	
BTech	Electronics & Telecommunication Engg.	120	720	120	
BTech	Instrumentation Engineering	40	240	40	
BTech	Chemical Engineering	30	180	30	
BTech	Production Engineering	60	360	60	
BTech	Mechanical Engineering	60	360	60	
BTech	Textile Engineering / Technology	30	180	30	

[View Uploaded File](#)

2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2917	224	96	30	126

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
126	126	11	35	20	15

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Class Teachers and Individual faculty members are mentors to a group of twenty five students from institute. They often meet students to ask their problems (both technical and personal) and monitor their academic performance. They provide professional guidance, career guidance, course specific, and laboratory-specific guidance to the students of their class. Thus, they try to resolve the problems which students face during their graduation studies.

Number of students enrolled in the	Number of fulltime teachers	Mentor : Mentee Ratio

institution		
3195	126	1:25

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
140	65	75	0	43

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Prof Y V Joshi	Director	Being shortlisted in LEAP programme 2019 -Leadership for Academician Programme of PMMMNMTT (Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) – flagship program envisaged by the MHRD, Government of India. LEAP is fully sponsored.
2019	Prof R S Holambe	Professor	Being shortlisted in LEAP programme 2019 -Leadership for Academician Programme of PMMMNMTT (Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) – flagship program envisaged by the MHRD, Government of India. LEAP is fully sponsored.
2020	Dr.N.H.Kulkarni	Associate Professor	Award for Excellance in Research EETRS,Noida.
2020	Dr.Rekha S Bhalekar	Assistant Professor	Savitribai Phule dyan jyoti state level mahila purasakar
2019	Dr.A.R.Patil	Associate	Nominated by Hon.

		Professor	Vice-Chancellor of SRTMU Nanded as a member of Interface Meeting (faculty of Science and Technology) for the final selection of Minor Research Projects Proposals Funding scheme (December 14, 2019 first meeting). Invited to particip
2019	Dr. Prakash G. Jadhav	Associate Professor	Best Teacher Award, Bank of Badoda Solapur Zone
2019	Prof S N Talbar	Professor	Being shortlisted in LEAP programme 2019 –Leadership for Academician Programme of PMMMNMTT (Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) – flagship program envisaged by the MHRD, Government of India. LEAP is fully sponsored.

View Uploaded File

2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
Mtech	All Courses	2019-20	30/04/2020	11/05/2020
BTech	All Courses	2019-20	30/04/2020	11/05/2020

View Uploaded File

2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	3195	0

2.6 – Student Performance and Learning Outcomes

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

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
202089610	BTech	Textile Technology	34	31	91.18
202060610	BTech	Production Engineering	68	65	95.59
202061210	BTech	Mechanical Engineering	67	64	95.52
202046610	BTech	Instrumentation Engineering	45	44	97.78
202024610	BTech	Information Technology	79	75	94.94
202037210	BTech	Electronics and Telecommunication Engineering	140	134	95.71
202029310	BTech	Electrical Engineering	34	31	91.18
202024210	BTech	Computer Science and Engineering	145	134	92.41
202019110	BTech	Civil Engineering	69	61	88.41
202050710	BTech	Chemical Engineering	33	32	96.97
View Uploaded File					

2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://sggs.ac.in/student%20section/

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes
Name of the teacher getting seed money
Dr. J M Waghmare

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Prof Y V Joshi	LEAP programme 2019 –Leadership for Academician Programme of PMMMNMTT (Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) – flagship program envisaged by the MHRD, Government of India	25/10/2019	MHRD, Government of India
National	Prof R S Holambe	LEAP programme 2019 –Leadership for Academician Programme of PMMMNMTT (Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) – flagship program envisaged by the MHRD, Government of India	01/11/2019	MHRD, Government of India
National	Prof S N Talbar	LEAP programme 2019 –Leadership for Academician Programme of PMMMNMTT (Pandit Madan Mohan Malviya National Mission on Teachers and	20/08/2019	MHRD, Government of India

	Teaching) – flagship program envisaged by the MHRD, Government of India			

<div align="center">

[View Uploaded File](#)

</div>

3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	365	SPDP Govt of Maharashtra	50	50
Minor Projects	720	SRTMU Nanded	0.4	0.4
Major Projects	720	AICTE	10	10
Major Projects	365	Board of Research in Neuclear Sciences	14	14

<div align="center">

[View Uploaded File](#)

</div>

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.4

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
AICTE-QIP short term course on Project Management for Engineers: Recent Trends	Civil Engineering	21/09/2019
AICTE-QIP short term course on Advances in Structural Engineering: Recent Trends	Civil Engineering	01/10/2019
AICTE-QIP short term course on Stability and Rehabilitation of Engineering Structures	Civil Engineering	06/01/2020
AICTE-QIP short term course on Analytical Techniques for Applied Research	Civil Engineering	16/02/2020
A Three days workshop on Development in modern instrumentation by Mr.	Instrumentation Engineering	09/01/2020

Rajesh Shah, Director, Nice Consultancy, Thane		
Workshop on "Deep Learning:- Concepts and Applications, "	Electronics and Telecommunication Engineering	16/12/2019
Design Thinking Workshop :	Electronics and Telecommunication Engineering	28/12/2019
Design Thinking Workshop :	Electronics and Telecommunication Engineering	14/03/2020
Alumni Industry Expert Meet	Electronics and Telecommunication Engineering	22/12/2019
[View Uploaded File](#)		

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
India 500 Startup Award 2019	Sumit Sriram Vijapure	MHRD	21/12/2019	Competition
Best Teacher Award	Dr P G Jadhav	Bank of India Solapur Zone	05/09/2019	Best Teacher
Optimization of water and yield improvement Smart India HACKATHON (SIH-2019)	Shreyash Meshram, Vivek Anchewar, Damini Gaikwad, Jyotsna Jambhale, Pranita Narwade, Atharva Pathak	Smart India HACKATHON (SIH-2019)	11/07/2019	Competition
BAJA SAEINDIA ATV (All Terrain Vehicle) 2020 at Chitkara University, Ropar (Punjab).	Team Phoneix of SGGSIET nanded: This team consist of 17 students from Mechanical Engineering and 3 from Production Engineering, 2 from Chemical Engineering and 1 from Information Technology Engineering	BAJA SAE INDIA	09/03/2020	Competition
No file uploaded.				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement

| TIEC SGGS Nanded | Sumit Vijapure | Self | Cosmers | Information Technolgy | 26/12/2019 |

No file uploaded.

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Civil Engineering	2
Computer Science and Engineering	7
Electrical Engineering	2
Electronics and Telecommunication Engineering	7
Mechanical / Production Engineering	2
Instrumentation Engineering	3

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	All	16	0
International	All	96	1.2

View Uploaded File

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

Department	Number of Publication
Electronics and Telecommunication Engineering	11
Chemical Engineering	2
Mechanical Engineering	1
Production Engineering	2
Information Technology	2
Civil Engineering	3

No file uploaded.

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
System and Method to Cool A Cabin of The Vehicle by Dr. V. B. Tungikar and Mr. M. R. Nukulwar	Filed	201921034761	29/08/2019
System to Heat a Fluid using Solar Energy by Dr. V. B. Tungikar and Mr. D. S. Malwad	Filed	201921049373	02/12/2019

System and Method to Dry Turmeric using Solar Energy by Dr. V. B. Tungikar, Mr. M. R. Nukulwar and Mr. D. S. Malwad	Filed	201921040162	04/10/2019
System and Method to Cool A Cabin of The Vehicle using the Movable Blower by Dr. V. B. Tungikar, Mr. M. R. Nukulwar and Mr. D. S. Malwad	Filed	201921040158	04/10/2019
System and Method to Produce Jaggery Using Solar Energy by Dr. V. B. Tungikar and Mr. D. S. Malwad	Filed	201921034759	29/08/2019

[View Uploaded File](#)

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Inverse Estimation of Heat Transfer Coefficient and Reference Temperature in Jet Impingement	Anil Ramkishanrao Kadam, Vijaykumar Hindasageri, GN Kumar	Journal of Heat Transfer	2020	0	SGGSIET	0
Automated Red Lesion Detection: An Overview	A Manjaramkar, M Kokare	Advanced Computing and Intelligent Engineering	2020	0	SGGSIET	0
Predictive Monitoring System Using K-NN, QDC Classifiers of Physiological Data	Vaidya, Madhav Dahatkar, Nidhi Kolhe, Balika	Information and Communication Technology for Intelligent Systems	2019	0	SGGSIET	0

Frequently Used Devanagari Words in Marathi and Pali Language Documents	Bhalerao, Milind Bonde, Sanjiv Vaidya, Madhav	Advances in Computer Communication and Computational Sciences	2019	0	SGGSIET	0
A Survey on Melanoma Skin Cancer Detection using CNN	Farkhanda Seharish, J. V. Megha	International Journal of Scientific Research in Engineering and Management	2019	0	SGGSIET	0
Brain Tumor Segmentation Using MRI Image - Review	Vallabh Baradkar, J. V. Megha	Journal of Applied Science and Computations	2019	0	SGGSIET	0
Sequential Deep Learning with 3D-CNN for Human Action Recognition and Label Prediction	Pooja Somatkar, J. V. Megha	International Journal of Recent Engineering Research and Development (IJRERD)	2019	0	SGGSIET	0
Bearing Capacity Analysis of a Square Footing Supported on Geogrid Reinforced Sand	Mr. Anand Shrigondekar and Dr. Prabhuling Ullagaddi	International Journal on Emerging Technologies	2020	0	Department of Civil Engineering, Shri Guru Gobind Singhji Institute of Engineering and Technology (SGGS IET), Nanded 431605, India	0
Impacts of climate change on streamflow and sediment c	Dr. A. P. Nilawar Dr. M. L. Waikar	Science of The Total Environment Elsevier	2019	22	Department of Civil Engineering, Shri Guru	27

oncentration under RCP 4.5 and 8.5: A case study in Purna river basin, India	Gobind Singhji Institute of Engineering and Technology (SGGS IET), Nanded 431605, India

<div align="center">

[View Uploaded File](#)

</div>

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Impacts of climate change on streamflow and sediment concentration under RCP 4.5 and 8.5: A case study in Purna river basin, India	Dr. A. P. Nilawar Dr. M. L. Waikar	Science of The Total Environment Elsevier	2019	5	28	28
Frequently Used Devanagari Words in Marathi and Pali Language Documents	Bhalerao, Milind Bonde, Sanjiv Vaidya, Madhav	Advances in Computer Communication and Computational Sciences	2019	3	1	1
Heat transfer distribution of premixed methane-air laminar flame jets impinging on ribbed surfaces	Anil R Kadam, Ritesh Kumar Parida, Vijaykumar Hindasageri, GN Kumar	Applied Thermal Engineering	2019	2	2	2
Robust diving motion control of	Girish V Lakhekar, Laxman M Waghmare,	IEEE Access	2019	7	2	2

an autonomous underwater vehicle using adaptive neuro-fuzzy sliding mode technique	Prakash G Jadhav, Rupam Gupta Roy					
Local energy oriented pattern for image indexing and retrieva	LM Waghmare, AB Gonde, GM Galshetwar	Journal of Visual Communication and Image Representation	2019	5	6	6
Disturbance Observer-Based Fuzzy Adapted S-Surface Controller for Spatial Trajectory Tracking of Autonomous Underwater Vehicle	Girish Vithalrao Lakhekar, Laxman M Waghmare, Rupam Gupta Roy	IEEE Transactions on Intelligent Vehicles	2019	7	2	2
Local binary patterns based on directional wavelet transform for expression and pose-invariant face recognition	Muqeet, M.A. and Holambe, R.S	Applied Computing and Informatics	2019	4	13	13
Time series decomposition and predictive analytics using MapReduce framework	Bendre, M. and Manthalkar, R.	Expert Systems with Application	2019	8	20	20
Adaptive	Londhe,	Intellig	2019	12	13	13

fuzzy sliding mode control for robust trajectory tracking control of an autonomous underwater vehicle	P.S. and Patre, B.M.	ent Service Robotics				
A time stamp-based algorithm to improve security and performance of mobile ad hoc network	Ubarhande, S.D., Doye, D.D. and Nalwade, P.S.	Wireless Networks	2019	0	2	2

View Uploaded File

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	10	19	29	5
Resource persons	0	23	38	27

View Uploaded File

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr. P. B. Ullagaddi	Third Party Technical Inspection of road development project under Maharashtra savanna jayanti Nagarothan Abhiyan of Hingoli City Municipal Council Dist.Hingoli (Report Submit)	Municipal Council Dist.Hingoli	229323
Dr.M. L. Waikar	Test report Concrete cube strength test.	Superintendent Gurudwara Sachkhand	1200
Dr.M. L. Waikar	Condition Assessment Report	Municipal Council,Ardhapur.	29500
Dr.M. L. Waikar	Test report	Superintendent	1416

	Concrete cube strength test.	Gurudwara Sachkhand	
Dr. P. B. Ullagaddi	Constructon of R.C.C.drain from Bhokar Chowk To naya Aabadi Phase-I at M.C.Mudkhed.	Nagar Parishad,Mudkhed.	106247
Dr. P. B. Ullagaddi	Construction of Shopping complex (Phase III)	Nagar Parishad,Mudkhed.	39917
Dr. P. B. Ullagaddi	Ahmedpur city water supply schemeTPTA	Nagar Parishad,Ahmedpur.	1377436
Dr. P. B. Ullagaddi	Mix design of M25,M30,M25,with fly ash M30 with fly ash	Nagar Panchayat,Ardhapur.	35400
Dr. P. B. Ullagaddi	JYS Scheme Kandhar, Loha	ZP Nanded	41000
Dr. P. B. Ullagaddi	Drawing approval certificate confirming of Bureau of India standards required for self supporting Mast (45 Mtr. 15 mtr.) for DMR system in Navi Mumbai to fulfile Pre tender requirement.	Allied Saftey Equipments Pvt.Ltd. Mumbai	70800
[View File](#)			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Chemial Engineering	Hazardous waste management rule 2016	Central Pollution Control Board, New Delhi	90000	30
[View File](#)				

3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
OU with ICT Mumbai campus	ICT Mumbai	5	30
Awareness program	NSS	2	12

e-banking			
Govt. School Visit	NSS	1	35
Police friend	NSS	1	72
Blood donation camp	NSS	23	150
Cleanliness camp	NSS	40	70
View File			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
NIL	NIL	NIL	0
No file uploaded.			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Women Empowerment	NSS	Employabilty to village women	1	35
Swachh Bharat	NSS, Waste to Best	Cleaning campus Drive	40	70
View File				

3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Student Exchange	15	Self	180
Collaborative Research	1	Institute	365
Industrial Scholarship	2	Industry	365
Patent Workshop	40	Institute	2
View File			

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial Project	Industry based	IPCA Laboratories,	15/12/2019	20/03/2020	1

		technical problem	Aurangabad			
Internship	One Year Dissertation Study	Emerson Innovation Centre, Pune	01/06/2019	30/06/2020	2
On the job training	Industrial Training	IMTMA Technology Centre, Pune	17/06/2019	13/07/2019	3
Internship	Construction and design of flexible pavement Design of sewage system	Sharda Construction Corporation Pvt.ltd	11/02/2020	11/02/2020	18
Internship	Design of water supply scheme for village under Jalswarajya scheme	Maharashtra Jeevan Pradhikaran Nanded.	11/02/2020	18/03/2020	9

[View File](#)

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ICT Mumbai	08/10/2019	Academic and Research	35

[View File](#)

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
567	535

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Video Centre	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
Class rooms	Existing

Campus Area	Existing

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
KOHA	Fully	14	2016
CHEMCAD	Fully	Version 1.0.0.14834	2019
MATLAB and Simulink	Fully	R2020b	2019
Coursera	Fully	2.7.18	2020
EDX	Fully	Latest	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	80231	30650100	5141	785791	85372	31435891
e-Books	2632	1331704	0	0	2632	1331704
Journals	92	367408	5	6550	97	373958
e-Journals	0	0	2050	4214359	2050	4214359
Digital Database	0	0	6293	5900	6293	5900
CD & Video	500	450000	0	0	500	450000
Library Automation	1	58000	1	20060	2	78060
Others(specify)	2	1434836	1	623359	3	2058195

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NIL	NIL	NIL	Nill

No file uploaded.

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others

Existing	1288	21	1288	21	1	1	10	1300	0
Added	120	1	120	0	0	0	0	0	0
Total	1408	22	1408	21	1	1	10	1300	0

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

1300 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Coursera	https://www.coursera.org/
NPTEL	https://nptel.ac.in/
EDX	https://www.edx.org/
MOODLE	http://moodle.sggs.ac.in/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
200	**144**	**200**	**184**

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

It is common practice to appoint contractors housekeeping staff and unskilled laborers for maintenance and keeping the cleanliness of the campus. The campus is maintained lush green by appointing unskilled and skilled laborers through contractors. Casual repairs of buildings are done from time to time every year. Contractors are appointed for some of the works by calling quotations for the works. Usually, equipment is maintained through AMC with suppliers. However, if any equipment needs calibration or repairs then the service provider is contacted immediately to get it done.

https://sggs.ac.in/tenders-site-section/

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	**Sadbhavana Scholarship**	**13**	**325000**
Financial Support from Other Sources			
a) National	**Distrct Social Welfare Office, Economically Backward Class, Tribal Development**	**1717**	**42889870**

		Office			
b)International		NIL	0		0

<div align="center">View File</div>

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Yoga: Art of Living	19/08/2019	240	Art of living, Vyakti Vikas Kendra, India.
Yoga: Art of Living	26/08/2019	240	Art of living, Vyakti Vikas Kendra, India.
Language Laboratory	01/01/2020	650	TEQIP-III

<div align="center">View File</div>

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	UPSC Chapter	200	200	25	25
2020	GATE Coaching	294	294	50	50

<div align="center">View File</div>

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Tata Consultancy Services (Ninja)	152	89	Birlasoft	33	5

<div align="center">View File</div>

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

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B. Tech	Mechanical Engineering	IIT Bombay	M. Tech
2019	1	B. Tech	Mechanical Engineering	IIT Kanpur	M. Tech
2019	1	B. Tech	Mechanical Engineering	ITM Gaziabad	MBA
2019	1	B. Tech	Mechanical Engineering	NITIE Mumbai	MBA
2019	1	B. Tech	Mechanical Engineering	IIT Kharagpur	M. Tech
2019	1	B. Tech	Chemical Engineering	IIT Madras	MS
2019	1	B. Tech	Chemical Engineering	IIT BHU	M. Tech
2019	1	B. Tech	Chemical Engineering	IIT Delhi	M. Tech
2019	1	B. Tech	Chemical Engineering	NIT Trichy	M. Tech
[View File](#)					

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	71
Any Other	2
[View File](#)	

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

Activity	Level	Number of Participants
PRAGGYA	National	3000
ZENITH	State	1200
R-MAGADON	State	800
UTSAV	State	2500
No file uploaded.		

5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	NO	National	Nill	Nill	Nill	No
2019	No	International	Nill	Nill	Nill	NO

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

The students representative serve in almost all academic and administrative bodies of the institute such as Departmental association and various clubs, students council, Anti-ragging cell, Anti Sexual harassment cell, Placement Cell, Career Guidance Cell, NSS, Gymkhana Committees, Library Committee, NAAC Cell, Academic Council, etc. Role of student representatives disseminates the information from institute administration to all students. Organize technical, non-technical, and social events. Conduct quiz competitions on current affairs. Organize program in NSS. Arrange study tours and industrial field trips. To maintain a conducive and anti-ragging environment in the hostel and institute premises. Students are a member of the following clubs in the institute like PESAM (Production Engineering Student Association), ECSTACY Culb of Electronics and Telecommunication Engineering, RNXG-Robotics Next Generation, R-MAGADON Club, Drama Club, Singing and Dancing Club, Photography Club, UPSC Chapter etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes, the institute has a registered Alumni Association. The Alumni association contributes actively to the welfare of the institution. The Alumni meeting is organized once a year by all the departments in the month of December. Illustrious and prominent alumni are invited to deliver special lectures, motivating the students to go for higher education and to find the means for job opportunities. All the departments have the alumni as members of their BOS. Their valid suggestions are taken into consideration in designing and updating the curriculum. Many Alumni have donated money for creating infrastructure in the institute like Ten Bhagyanagr Canteen, Laboratory in the Departments Like Electronics and Telecommunication Engineering, Instrumentation Engineering, and Textile Technology.

5.4.2 – No. of registered Alumni:

8285

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

475000

5.4.4 – Meetings/activities organized by Alumni Association :

12th Alumni Meet was organized on 21st and 22nd Dec 2019. Total 120 Alumni of the 1995 batch, who were celebrating their silver jubilee year were present for the meeting. On 21st December, all the alumni delivered a talk in their respective departments for career guidance to their juniors. Subsequently, they visited the Department and overall institute. In the afternoon session, they had a meeting with Departmental faculty members for academic and industry interaction. In the second half of 21st December, all the alumni were felicitated at the institute level. On day 1, at 5.0ppm Alumni association executive meeting was held to decide the activities to be carried out during the next academic year. In the evening present student and alumni organized a cultural event, which was followed by dinner. On day 2 i.e on 22nd Dec, the day started with sports activities and which was followed by the Alumni Association meeting to decide the future plan for the development of the institute.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The institute is headed by the Governing body followed by the Director, Registrar, the Deans, HoDs and the Section Heads are looking after the various portfolios for the overall development of the institute. The institute Development/ planning committee, Finance committee, and the Academic Council are intermediary but important bodies that mentor the Director in taking decisions regarding institutional development, financial issues, and Academic related implementations respectively. However, all major decisions are ratified by the Academic Council and the Board of Governance.

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

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Admission of Students	B. Tech and M. Tech Admissions are done through Central Admission Cell of Government of Maharashtra. B. Tech admissions are based on Common Entrance Test score. Being an Government Aided Autonomous institute meritorious students are admitted in ten different branches in the institute with an intake capacity of 610. Admission to M.tech program in institute is done through the GATE score. The admission process is organized by DTE Maharashtra through centralized admission process (CAP). The authorities will release a merit list of candidates based on their GATE scores. Students are admitted in 10 PG programs. GATE qualified students get stipend through AICTE.
Human Resource Management	Pragmatic Management of the Institute has taken proactive steps to depute faculty to various IITs and NITs for higher studies. The faculty not only acquired higher qualifications but also brought back along with them the culture of these premier organizations. SGGSIET is rich in highly qualified faculty with more than 50 of the regular faculty being doctorates.
Research and Development	The research culture of the institute has been proven through publication in thousands of research contributions with good citation record in peer reviewed prestigious national/international journals and reputed international conferences. Many faculties are reviewers for international journals. Several books

	have also been published by the faculty. Patenting is becoming a promising feature of the institute basically because student projects are also getting converted into patents. Establishment of Innovation Laboratory and participation of roughly 15 of the total student strength in various Innovation projects is a key feature of the institution The Institute has state of the art equipment and machinery for teaching as well as research / consultancy services. Faculty have contributed in being way for laboratory development through proposals to various funding agencies like AICTE, DST, BARC, NRB, etc other than the funding obtained under two phases of TEQIP and from Government of Maharashtra. Most of the laboratories are kept open for the students 24 × 7. Four of the institute's departments have FIST sponsored laboratories. Faculty research abilities have led to the establishment of a "Centre of Excellence" in the area of Signal and Image Processing under TEQIP. Scholarships/ Fellowships are made available to the full time research scholars from Quality Improvement Program (QIP) of the MHRD Government of India,Technical Education Quality Improvement Program (TEQIP)of the MHRD, Government of India, Visvesvaraya Ph.D. Scheme, AICTE Doctoral Fellowship.The Research Symposium is a regular feature of our Ph. D program to evaluate and monitor research performance of research scholars.
Curriculum Development	Regular revamping of curriculum through involvement of academicians and industry personnel. The process is monitored at various levels within department and institutes. Outcome based, choice-based and student-centric policies are given more thrust in curriculum design. More focus is given on professional and open electives. Academic audit by inviting Professors from IITs/ NITs are conducted every year to check quality of syllabus, question paper and evaluation of answer-scripts.Total credits and academic requirements recommended by AICTE model curriculum are strictly adhered at both UG and PG programmes. Students are encouraged for undergoing courses available on SAWYAM.From 2018, we

	changed the curriculum as per the guidelines received through AICTE model curriculum and several reforms are introduced Engineering Exploration and Project Based Learning (PBL) to provide a scope to demonstrate creativity in the students. This helps in inculcating habit of thinking on practical solutions on real life problems. Engineering Exploration subject is introduced at first year and is based on project-based learning with glimpses of engineering systems from all disciplines.
Teaching and Learning	The classroom teaching is well supported by smart boards, Computers and LCD projectors. The academic calendar is strictly followed and monitored for delivering course contents, which are defined by every course coordinator in course delivery plan. Opportunity for the students to learn at other institutes of repute is provided through credit transfer scheme. There is a scope for industry oriented project for both UG and PG students. Moodle is effectively used for effective teaching-learning. The inputs are taken from learners through feedback taken in every semester and used to address the issues related to teaching learning. Remedial classes if needed during the regular semester and summer term are conducted. The industrial field visits, expert lectures for contents beyond syllabus are organized regularly.
Examination and Evaluation	Institute adopted fixed credit system since 2004. Statistical relative grading is used for grading students with continuous evaluation. In the past 16 years, we shifted from original 100 marks single examination at the end of semester to 20-20-60 system for three years and then 30-70 for almost 11 years and now i.e. since 2018 we further shifted to a pattern of In-Semester Evaluation (ISE), Mid-Semester Evaluation (MSE) and End-Semester Evaluation (ESE) with distribution of marks as 10-30-10-50 (ISE1-MSE-ISE2-ESE). Choice based credit system was adopted since 2013 with many Institute level and Department level electives. We introduced liberal learning system by offering courses like foreign languages, music, arts

	etc. Grading methodology used is statistical grading with seven pass grades (A, A, B, B, C, C and D) equivalent to grade points of 10, 9,8,7,6,5 and 4 respectively and one Fail grade (F with a grade point of 0). Grades are awarded on the marks out of 100 obtained by the student in each course. F grade is awarded for a student getting less than 40 marks. Grade boundaries are decided on the basis of values of mean and standard deviation with a gap of 0.5 Standard deviation around mean. In any case A is awarded only for marks greater than 80.
Library, ICT and Physical Infrastructure / Instrumentation	Institute Library is situated in a separate two storied block of 12400 Sq. ft. surrounded by lush green area. It began its existence in 1981. It has an ample stock of 55,396 books and 3959 bound volumes of National and International journals. 72 National and 59 International journals are subscribed currently which facilitates research in our institute. It is a most lively place on the campus providing a safe, comfortable and friendly environment that enables learning and advancement of knowledge, and promotes innovation. Besides this, we have Book Bank Scheme for Scheduled Caste and Scheduled Tribe students. We also have subscription to multiple copies of National, regional, and local news-papers and magazines. We have an attractive Reading Room having capacity of 250 students, where readers find conducive environment for reading. We also provide earn learn facility for the students of economically weaker section, where they can work in the library and can also earn through it. The mission of the Central Library is to facilitate creation of new knowledge through acquisition, organization and dissemination of knowledge resources and providing value added services. All classrooms are well equipped with ICT infrastructure such as LCD projector, computer, PA System, and smart boards. This gives platform for teacher and students to teach and learn effectively by using audio visual aids.
Industry Interaction / Collaboration	Institutes close association with Industry resulted in improved placement and internship of the students. Also industries have supported institute for

	establishment of industry sponsored laboratories in various department. To name few, Emerson Automation Solutions Pvt, Ltd., Mumbai have established Emerson-Process Automation and Safety System (E-PASS) laboratory at Instrumentation Engineering Department. The laboratory consists of following instruments worth INR 20 Lacs which includes, 1. Delta-V System hardware 2. Delta-V System RIO Hardware and Software. Endress Hausers donated the following instruments worth INR 12 Lacs to the Instrumentation Engineering Department Laboratory, Mentor Graphics has supported to establish Center for VLSI Design and Verification in the Department of Electronics and Telecommunication Engineering. SAI Technology (SAI) has supported center for research and development in Cyber Security in Computer Science and Engineering. Memorandum of Understanding (MoU) has been signed with various industries which includes, 1. Training/lectures by experts from Industry 2. Internship for projects 3. Industrial visits of students and faculty 4. Campus recruitment

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

E-governace area	Details
Planning and Development	MIS, Moodle
Administration	MIS
Finance and Accounts	Tally
Student Admission and Support	MIS
Examination	Institute has developed an MIS system for Examination System

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Lenina SVB	Nill	IEEE Member Ship fees	7824
2019	Dr. S.N.Talbar	Nill	IEEE Member Ship fees	6301
2019	Dr. Y.V. Joshi	Nill	IEEE Member Ship fees	8947
2019	Dr. S.V.	JIIT	Nill	24330

	Bonde	International Conference		
2019	Dr. A.B. Gonde	NIT, Jaipur	Nill	43510
2019	K.G.Rajmore	Nill	Society of Automotive Engineering (SAE)	1298
2019	M.G.Gaikwad	Nill	Society of Automotive Engineering (SAE)	1298
2019	Prof. R.P.Parvekar	Nill	Society of Automotive Engineering (SAE)	1298
2020	Dr. M. V. Vaidya	Information and Communication Technology for Competitive Strategies (ICTCS-2020)	Springer	12480
2020	Dr. A K Manjaramkar	International Conference on Intelligent Data Communication Technologies and Internet of Things" (ICICI 2020)	Springer	12480
[View File](#)				

6.3.2 – Number of professional development / administrative training programmes organized by the Colleges for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Project Management for Engineers	Project Management for Engineers	21/09/2019	25/09/2019	15	5
No file uploaded.						

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development	Number of teachers who attended	From Date	To date	Duration

programme				
One week Online FDP on Drupal, R Programming and LaTeX in Association with IITB Spoken Tutorial	1	27/04/2020	02/05/2020	6
One Week Online Faculty Development Program on Signal, Image	1	26/05/2020	30/05/2020	5
QIP SHORT TERM INTERDISCI PLINARY COURSE ON Waste to Energy-A Green Approach	6	03/07/2019	07/07/2019	5
CPCB sposored Sampling Analysis of Hazardous and other Wastes under HOWM Rule-2016	6	09/12/2019	11/12/2019	3
QIP SHORT TERM INTERDISCI PLINARY COURSE ON "Advanced Functional Materials in Engineering	6	24/02/2020	28/02/2020	5
FDP on Moodle admin basics	1	14/05/2020	21/05/2020	7
Project Based Learning Workshop	67	12/07/2019	13/07/2019	2
Education 4.0-Season II	5	28/05/2020	30/05/2020	3
one week QIP program on RECENT TRENDS IN CONTROL SYSTEM AND APPLICATIONS	8	01/07/2019	05/07/2019	5
View File				

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time

65	65	89	89

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Staff Welfare Fund, and welfare schemes as per Government of Maharshtra norms	Staff Welfare Fund, and welfare schemes as per Government of Maharshtra norms	Student Welfare Fund

6.4 – Financial Management and Resource Mobilization

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

Yes. The institute has appointed internal and external auditors, who do financial audits annually. The internal auditor makes quarterly balance sheets. The statutory auditors carry out half-yearly and yearly audits. In addition to this for grant-related funds provided by the state government, a separate audit is carried out by the regional office of the Directorate of Technical Education and by the Audit General (AG) of the state government. Also, NPIU conducts a regular audit of the TEQIP Grant.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Sadbhavana Scholarship, MOU Scholarship, and Prize	497636	to support financially weak students, prize for meritorius students
No file uploaded.		

6.4.3 – Total corpus fund generated

4007515

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	NBA Expert Committee, Expert Committee from IIT/NIT	Yes	HOD
Administrative	Yes	TEQIP Auditor, University Affilation Committee, NBA Expert Committee,	Yes	Director, Registrar

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

1) During the First-Year Students Induction Program, Parents are invited and addressed in Orientation Session. 2) Parent-Teacher Meet is conducted every year and feedback from parents is collected. 3) Parents are invited to Graduation Day Ceremony.

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

1) Relaxation by MEDITATION DURING LOCKDOWN From 27-04-2020 to 17-05-2020: SGGSIET in association with International Sahaja Yoga Research Health Center, Greater Noida Delhi is conducting online training program for faculty, staff, and students in Lockdown. More than 300 people have attended the sessions every day. 2) Three staff members from the Electronics and Telecommunication Engineering Department were sent for training in Scientec Company at Indore

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

1) Examination reforms from the academic year 2020-21. 2) Rigorous curriculum revamping for Third year and Final year UG Program. 3) Changing Nomenclature of MTech (Electronics) to M. Tech (Artificial Intelligence). 4) Focus on attracting top-notch multinational companies for placements. 5) Campus reformation based on environmental concerns and Swachata Abhiyaan.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Design Thinking Workshop	27/12/2019	28/12/2019	29/12/2019	30
2019	Project Management for Engineers	20/09/2019	21/09/2019	25/09/2019	35
2019	Waste Energy - A Green Approach	01/07/2019	03/07/2019	07/07/2019	39
2019	Recent trends in Control System and Applications	01/07/2019	01/07/2019	05/07/2019	36
No file uploaded.					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
'Social Internship –	03/06/2019	09/06/2019	60	65

2019				
The Art of Living Course	19/08/2019	24/08/2019	55	65
Team Phoenix : BAJA SAEINDIA 2020 Winners	05/03/2020	09/03/2020	5	23

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
The institute is in process (tenders are floated) of implementing Solar technology for generating alternate non conventional sources of electricity generation, which can be connected to the electricity board grid. The generated electricity will contribute in saving of conventional energy.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	50
Provision for lift	Yes	50
Ramp/Rails	Yes	50
Rest Rooms	Yes	50
Scribes for examination	Yes	50
Braille Software/facilities	Yes	50
Special skill development for differently abled students	Yes	50

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	1	11/02/2020	37	Design of Water Supply Schem for Village Under Jal swarajya Scheme.	1	9
2020	1	1	11/02/2020	1	Construction and Design of Flexible Pavement Design of Sweage	1	18

| 2019 | 1 | 1 | 04/06/2019 | 365 | Circulation of Minutes of meeting of weekly Deans/ HoDs meeting to all faculty members | 1 | 65 |
| 2019 | 1 | 1 | 28/12/2019 | 2 | Design Thinking Workshop to improve skills of students from rural area | 1 | 65 |

View File

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Policy Document of Core Values and Professional Ethics	01/06/2019	Core Values of the institute 1. Transparency: It improves working environment and confidence in the stake holders. The transparency in the processes and activities in the institute is achieved through publication of relevant information and notification on institute website. All tenders for procurement of goods and services are made available on the website (www.sggs.ac.in). Matters related to academic activities like attendance record of students, marks obtained in CTE (continuous teachers' evaluation) and mid-tens examination are displayed on relevant portal. End-term examination answer books are made available to students on demand. Final

grades are awarded to the students after meeting and discussion in the grade moderation committee meeting. 2. Equity: It is an important aspect in autonomous academic institutions. It is practiced through unbiased functions and no discrimination among the students irrespective of religion, cast and gender. All students and staff are provided with equal opportunities for growth. Appropriate committees are functional to ensure equity among the concerned in the institute. 3. Quality: Quality in education is a matter of concern and priority not only in India but across the globe. Quality in academic processes in the institute is ensured through outcome-based education. Few programs in the institute have acquired NBA accreditation many times. Curriculum reforms are implemented as per the need of industry and society and the syllabus is modified every three years. Academic bodies like BOS, DFB, IAP (Industry Advisory Panel) and senate work constantly to bring quality in the academics. Academic audit and gap analysis are conducted regularly by experts from premier institutions like IIT's. 4. Integrity and commitment: These are basic requirements for the progress and functioning of autonomous institutes. A conducive environment exists in the institute which ensures effective teaching

learning process, research, and extension activities. Due to the integrity and commitment of faculty staff and students, the institute has achieved a prominent status in the state of Maharashtra and in the country. Faculty, staff, and students have achieved many prizes, awards and recognition at national and international level. 5. Professionalism: It is practiced in the systems of the institute to achieve the expected outcomes. Academic calendar is prepared in advance and it is strictly adhered to Interaction with the outside world takes place in a professional manner. This results in acceptance of our students in industries and in institutes of higher learning.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Universal Human values by Dr. Avinash Wandre	08/08/2019	08/08/2019	600
Induction program :The Art of living	19/08/2019	24/08/2019	120
Induction program :The Art of living	26/08/2019	31/08/2019	120
Talk on "Need Based Engineering" – Mr. Vishwas Momle	07/08/2019	07/08/2019	600
View File			

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1) The rich vegetation within the campus facilitates a lower temperature (3-4 degree centigrade) in the campus as compared to the external campus temperature. 2) The campus is well protected and is a home to various domesticated animals like monkeys, birds of various species, peacock, and reptiles thus exhibiting balance in the ecosystem. 3) Use of plastic is strictly banned in the campus. 4) The college campus has protected wells, and boar-wells, which supplies water for secondary uses 24/7 throughout the campus. 5) Solar lighting on the streets within campus is implemented. 6) The institute

caters to accommodate 1218 students in five different hostels in the campus, a temple and about 20 families of faculty/ staff and research scholars staying in quarters, which are exclusively maintained by the college. 7) Buildings are provided with Rain Water Harvesting facilities protecting water table on the campus. A well maintained jogging track is constructed around the playground which is extensively used by the internal stake holders.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1) (TIEC) Technology Innovation and Entrepreneurship Centre – to nurture the technical ideas and sharpen their minds towards entrepreneurship. Due this facilty students bagged first prize in HACKTHON 2019 and few students started their own industry. 2) Center of Excellence in Signal and Image Processing: The Center runs a multidisciplinary research program involving more than 20 faculty members and 35 research scholars from various departments of engineering and basic science of institute. The Center has started its functioning in its state-of-the-art Signal and Image Processing Laboratory equipped with all the ultra modern machinery set at par with any international research center and is open 24/7. Apart from carrying out frontier research in the areas mentioned above, the center aims at creating technologies that can be commercially exploited by industries. The Center is also engaged in an ambitious plan for generating high caliber manpower and entrepreneurs in the field of Signal and Image Processing. Researchers from this center bagged 2 international honors and one first prize at national. 3) Smart Classroom – to provide the best and conducive environment for teaching and learning and also to encourage self-learning. All the classrooms equipped with Projectors, PA systems with set-top boxes. 4) 24x7 laboratories are open – to accelerate and experience learning process through practicals. 5) Alumni meet is conducted in last week of December every year since 2008. 6) Additional coaching for slow learners through remedial classes. 7) Green Campus

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

https://sggs.ac.in/centers_coe/#

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The vision of the institute is to Education of Human Power for Technological Excellence. The measure of the successful implementation of the teaching-learning process and realization of our vision ultimately can be monitored by evaluating the successful outcomes of the graduates in terms of their placement, higher education or perusing entrepreneurship. In this direction, this institute not only imparts excellence in technical knowledge but also supports the students at various levels during their graduation to enhance their soft skill and professional skills. TIEC – Technology Innovation and Entrepreneurship Center is an initiative of Shri Guru Gobind Singhji Institute of Technology, Nanded for identifying entrepreneurial traits in the students and building their capacity for entrepreneurship and encouraging technology start-up on the campus. TIEC administers business incubator that provides support to Technology based entrepreneurs. Thus, the TIEC is an extension to the research carried out on the campus, that enables its monetizing either in form of technology or technology converted into product, which makes it relevant to Industry and societal needs.TIEC center encourages students participation in several Hackthons. Techfests, nationally recognize competitions like Baja etc.Students have proved their talents by various prizes

in several events at national and international levels. The final measure of the success of the vision is the placement record of the institute.The last five years placement record is as follows: (2014-15: 332, 2015-16: 372 and 2016-17: 350, 2017-18: 224, 2018-19: 253, 2019-20: 277). More than 30 companies from all over India visits the institute for placement. On the other hand, candidates who aspire for higher studies do not opt for placement but display their excellence in cracking exams namely, GATE, CAT, UPSC, MPSC, IES, and IAS as well.About 15 of the students on an average opt for pursuing M. Tech from IIT/ NIT or MS from foreign Universities. Few students also start their own business after completing MBA.

Provide the weblink of the institution
https://sggs.ac.in

8.Future Plans of Actions for Next Academic Year

Future Plan for Academic Year 2020-21: 1) Up-gradation of teaching learning facilities through modern classrooms ICT tools and modernization of Laboratories with high end equipments. 2) Collaboration with other premier institutes at national and international levels. 3) Organizing STTPs, Workshops, Seminars and Conferences for giving training on advanced technologies. 4) Continue to work as Leading institute in Marthwada region for catering facilities to nearby institutes. 5) Increasing participation of students at national and International level.