

YEARLY STATUS REPORT - 2020-2021

Part A			
Data of the Institution			
1.Name of the Institution	SIDDHIVINAYAK TECHNICAL CAMPUS		
Name of the Head of the institution	Dr. Anant G. Kulkarni		
• Designation	Principal		
• Does the institution function from its own campus?	Yes		
• Phone no./Alternate phone no.	07263-220333		
Mobile No:	9826181319		
Registered e-mail	stc.shegaon@stc.org.in		
Alternate e-mail	dranantgkulkarni@stc.org.in		
• Address	Gat No. 133,134,140 Shegaon- Khamgaon Road, Shirasgaon Nile, Tq-Shegaon, Dist: Buldhana		
• City/Town	Shegaon		
• State/UT	Maharashtra		
• Pin Code	444203		
2.Institutional status			
Type of Institution	Co-education		
• Location	Rural		
• Financial Status	Self-financing		

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		Sant Gadge Baba Amravati University			
Name of	the IQAC Coordi	nator	Prof. Jayesh K. Kokate		
• Phone No	0.		8668267171		
Alternate	phone No.		9970362364		
Mobile			8668267171		
IQAC e-mail address		jayesh.kokate@stc.org.in			
Alternate	e e-mail address		jkokate18@gmail.com		
`			http://stc.org.in/Image/NAAC/STC SSR Submitted 24.10.19.pdf		
4.Whether Acad during the year	demic Calendar	prepared	Yes	-	
• if yes, whether it is uploaded in the Institutional website Web link:		http://stc.org.in/Image/Academic% 20Calender%202020-2021.pdf			
5.Accreditation	Details	V			
Cycle	Grade	CGPA	Year of	Validity from	Validity to

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	В	2.3	2021	16/03/2021	15/03/2026

6.Date of Establishment of IQAC 25/06/2018

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Depa rtment /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
NIL	NIL	NIL	NIL	NIL

8.Whether composition of IQAC as per latest NAAC guidelines	Yes
 Upload latest notification of formation of IQAC 	View File
9.No. of IQAC meetings held during the year	4

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 Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website? 	Yes
• If No, please upload the minutes of the meeting(s) and Action Taken Report	View File
10. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No
• If yes, mention the amount	
11.Significant contributions made by IQAC dur	ing the current year (maximum five bullets)
Online Teaching Learning & Monitor	ing.
Safety gadgets purchase for staff	& purchase of ICT infrastructure.
Online/Offline Placement Drives Co	nduction.
Workshop for Non-Teaching Staff	
AAA Report	
12.Plan of action chalked out by the IQAC in the Quality Enhancement and the outcome achieved	•
Plan of Action	Achievements/Outcomes
Online Teaching Learning & Monitoring	Successfully Conducted
Workshop for Non-Teaching Staff	Workshop on MS-Excel
Conference & STTP organization	Not Achieved
AAA Report Preparation	Prepared
13.Whether the AQAR was placed before statutory body?	No
Name of the statutory body	

Name	Date of meeting(s)
Nil	Nil
14.Whether institutional data submitted to AIS	EHE
Year	Date of Submission
2020-2021	03/02/2022
Extende	ed Profile
1.Programme	
1.1 Number of courses offered by the institution acros during the year	ss all programs
File Description	Documents
Data Template	<u>View File</u>
2.Student	
2.1	432
Number of students during the year	
File Description	Documents
Data Template	<u>View File</u>
2.2	85
Number of seats earmarked for reserved category Govt. rule during the year	as per GOI/ State
File Description	Documents
Data Template	<u>View File</u>
2.3	134
Number of outgoing/ final year students during the	e year
File Description	Documents
Data Template	View File

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3.Academic			
3.1		27	
Number of full time teachers during the year			
File Description	Documents		
Data Template		View File	
3.2		30	
Number of Sanctioned posts during the year			
File Description	Documents		
Data Template		View File	
4.Institution			
4.1		16	
Total number of Classrooms and Seminar halls			
4.2		2917091	
Total expenditure excluding salary during the year (INR in lakhs)			
4.3		183	
Total number of computers on campus for academic purposes			
Par	t B		
CURRICULAR ASPECTS			
1.1 - Curricular Planning and Implementation			
1.1.1 - The Institution ensures effective curriculum	delivery through	a well planned and documented	

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

The institute is affiliated with Sant Gadge baba Amravati University (SGBAU) and approved by AICTE. Institute implements the curriculum designed by the SGBAU. Due to the COVID-19 Pandemic; as per guidelines from the university and government, the teaching mode was online.

Implementation:

• Preparation of Academic calendar.

- Decide the free-elective and professional subject through the students, Load distribution process, Time-Table, etc.
- Preparation of upcoming semester by the staff as course file, Practicals file, PPT, etc.
- The students are made aware of the syllabus, Teaching, and learning plan by discussion in the first one or two lectures at the start of the session.
- Online lectures and syllabus coverage were continuously monitored by HOD's, Academic Dean, and Principal.
- Students are motivated to participate in workshops, training programs, and Seminars.
- Two Unit tests per session were conducted to check the overall development of students and as per the results, students are notified about their weak and strong points and discussion for the improvements was done. Remedial lectures were taken for slow learners.
- The student's attendance, as well as test results, was conveyed to the parents through telephone.
- Student feedback was conducted.
- CO, PO attainments, and mapping were evaluated and appropriate action was taken.

File Description	Documents
Upload relevant supporting document	<u>View File</u>
Link for Additional information	NIL

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

The institute affiliated with Sant Gadge Baba Amravati University (SGBAU) Amravati. The university declared the Academic Calendar at the beginning of every session. On the basis of the SGBAU calendar; the institute prepares its academic calendar. The calendar was uploaded on the institute website & circulated among staff & students. After circulation of the Academic calendar among HODs, faculties, and students institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE).

Academic Monitoring- Each Head of the Department maintains a monthly monitoring report on course coverage, student attendance, and assignment provided for every subject.

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Internal Examinations- The exam dates, result dates of Unit Test (UT) 01 and 02 are mentioned in the academic calendar. Internal-viva and practical exams are conducted by respective departments before the university examinations.

Question Paper Setting- The question paper of internal exams is prepared by concerned faculties as per instructions given by the Unit Test coordinator.

Sessional marks- After UT, sessional submission (Practical, project, seminar internal exam) department prepared internal marks record under the supervision of Dean and finally enter all internal marks on SGBAU portal.

University Exams- The final university exam schedule is also displayed on student notice boards.

File Description	Documents
Upload relevant supporting documents	<u>View File</u>
Link for Additional information	NITI
	NIL

1.1.3 - Teachers of the Institution participate in | C. Any 2 of the above following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma **Courses Assessment / evaluation process of the** affiliating University

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	<u>View File</u>
Any additional information	<u>View File</u>

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

5

File Description	Documents
Any additional information	<u>View File</u>
Minutes of relevant Academic Council/ BOS meetings	<u>View File</u>
Institutional data in prescribed format (Data Template)	<u>View File</u>

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

1

File Description	Documents
Any additional information	<u>View File</u>
Brochure or any other document relating to Add on /Certificate programs	<u>View File</u>
List of Add on /Certificate programs (Data Template)	<u>View File</u>

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

59

1.2.3.1 - Number of students enrolled in subject related Certificate or Add-on programs during the year

59

File Description	Documents
Any additional information	<u>View File</u>
Details of the students enrolled in Subjects related to certificate/Add-on programs	<u>View File</u>

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1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Institute integrated various courses in the curriculum like Environmental Studies, Non-conventional Energy Sources, Environment Engineering, Industrial Management, Costing, Professional Ethics, Values & Ethics, Communication Skills, etc. to address issues related to Gender, Environment and Sustainability, Human Values, and Professional Ethics for the overall development of students.

Institutes conduct various activities under NSS, Anti-ragging cell, Internal Complaint Committee to make aware students of the crosscutting issues. In the Covid 19 pandemic, as the safety of students and staff was the first priority of the institute some of the programs were conducted online. Some of the activities conducted were Tree Plantation, Swachh-Bharath Abhiyan, Program of Women and Child Development Officer on Gender Equality, AICTE's Lilavati Award 2020, AICTE's Mirabai Award Music Competition, International Women's Day Celebration, Health Awareness Programmes, Savidhan Divas, and Savitribai Fule Jayanti. The motto behind organizing the programs was to make aware students of gender sensitivity, human values, professional ethics, Environment and Sustainability, etc. In this activates guests guided the students about the cross-cutting issues, students also actively participated in programs by giving speeches. Some of the students of the institute distributed Mask to needy people in their areas as well asmade aware of Safety precautions for Covid-19.

File Description	Documents
Any additional information	<u>View File</u>
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum	<u>View File</u>

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

17

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File Description	Documents
Any additional information	<u>View File</u>
Programme / Curriculum/ Syllabus of the courses	<u>View File</u>
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	<u>View File</u>
MoU's with relevant organizations for these courses, if any	<u>View File</u>
Number of courses that include experiential learning through project work/field work/internship (Data Template)	<u>View File</u>

1.3.3 - Number of students undertaking project work/field work/ internships

127

File Description	Documents
Any additional information	<u>View File</u>
List of programmes and number of students undertaking project work/field work//internships (Data Template)	<u>View File</u>

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni

B. Any 3 of the above

File Description	Documents
URL for stakeholder feedback report	<u>View File</u>
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	<u>View File</u>
Any additional information(Upload)	<u>View File</u>

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1.4.2 - Feedback process of the Institution may be classified as follows

A. Feedback collected, analyzed and action taken and feedback available on website

File Description	Documents
Upload any additional information	<u>View File</u>
URL for feedback report	http://stc.org.in/web/showdetails1.aspx?id=1 167

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of sanctioned seats during the year

150

File Description	Documents
Any additional information	<u>View File</u>
Institutional data in prescribed format	<u>View File</u>

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

14

File Description	Documents
Any additional information	<u>View File</u>
Number of seats filled against seats reserved (Data Template)	<u>View File</u>

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Students enrolled in various disciplines are identified as slow and advanced learners based on their previous year marks and Unit Test

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conducted by each department. This helps to identify slow learners and to design special coaching sessions to bridge the gap between the slow and advanced learners. Tutors of respective classes extend valid support in classifying students with reports based on observation and class tests.

- 1. Institute organizes Induction programs for freshers at the college level. Apart from these sessions, included inculcating a positive attitude and competitive spirit.
- 2. Bridge Courses are conducted at the departmental level to lift the students to the level of higher education.

Strategies for slow learners:

- Conducted Remedial Classes.
- Group Study System is also encouraged with the help of advanced learners.
- Academic and personal counseling
- Provide lecture notes/ Question bank /course materials.
- Giving assignments.

Strategies for advanced learners:

Quick learners are identified through their performance in examinations & interaction in the classroom.

- Encouraged to enroll in online courses
- o Provides Competition exam material books for reference.
- Encouraged to participate in co-curricular & extra-curricular activities.
- Semester Toppers and University rank holders are encouraged by the institute.

File Description	Documents
Link for additional Information	NIL
Upload any additional information	<u>View File</u>

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
432	27

File Description	Documents
Any additional information	<u>View File</u>

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

In addition to the traditional teaching-learning methods, the institute is providing innovative student-centric methods such as

Experiential: Sr.Number 1-6 Participative Sr.Number 7-17 Problem-Solving Methodologies Sr.Number 18-23

- 1. Workshops
- 2. Seminars
- 3. Virtual Lab
- 4. Roleplay
- 5. Video
- 6. NPTEL
- 7. Demonstration
- 8. Activity-based learning
- 9. Think-Pair-Share
- 10. Guest lecture
- 11. GD/ debate
- 12. Peer learning groups
- 13. Google Classroom
- 14. Project-based learning
- 15. Mock test (GATE Mock)
- 16. Viva
- 17. Public Speaking
- 18. Real-time case studies
- 19. PPT
- 20. Proto-type model
- 21. Research projects
- 22. Online Assignment for Numerical Subjects
- 23. Poster presentation

In the attached proof we have given a mapping table of activities conducted for respective teaching methodology in that proof we have mentioned numbers from 1 to 23 which represents the activity in the above table.

File Description	Documents
Upload any additional information	<u>View File</u>
Link for additional information	NIL

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

In STC, the classrooms and labs are ICT- enabled with projectors installed, and the campus is enabled with a high-speed WiFi connection. The faculty at STC use various ICT-enabled tools to enhance the quality of teaching-learning like

- 1. Google-classroom is used to manage and post course-related information- learning material, lab submissions and evaluations, assignments, etc.
- 2. Virtual labs are used to conduct labs through simulations.
- 3. PPTs are enabled with animations and simulations to improve the effectiveness of the teaching-learning process.
- 4. Online-learning environments are designed to train students in open problem-solving activities.
- 5. Lab manuals are mailed to students well in advance of the experiment being performed.
- 6. Online quizzes are regularly conducted to record the feedback of the students.
- 7. COEP Virtual-lab is used for creating multiple students accounts where faculty can check the individual practicals performed by students.
- 8. To teach mathematical subjects in online mode, teachers have used various online tools like- whiteboard in Microsoft teams, Jam-board in Google-meet, etc.
- 9. Faculty share NPTEL/YouTube videos related to subjects to students through WhatsApp.
- 10. On the campus 15 ICT-enabled classrooms, 01 smart seminar room, 5 projector rooms, 3 portable projectors, 183 computers areavailable.

File Description	Documents
Upload any additional information	<u>View File</u>
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	http://stc.org.in/images/2.3.2%20Final%20Rep ort.pdf

${\bf 2.3.3}$ - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

28

File Description	Documents
Upload, number of students enrolled and full time teachers on roll.	<u>View File</u>
Circulars pertaining to assigning mentors to mentees	<u>View File</u>
mentor/mentee ratio	<u>View File</u>

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

27

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	<u>View File</u>
Any additional information	<u>View File</u>
List of the faculty members authenticated by the Head of HEI	<u>View File</u>

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

1

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File Description	Documents
Any additional information	<u>View File</u>
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year(Data Template)	<u>View File</u>

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

103

File Description	Documents
Any additional information	<u>View File</u>
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	<u>View File</u>

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

Internal assessment is carried out for internal theory, practical, seminar, and project marks.

For theory, practicals, seminars, and project internal marks are distributed according to the college circular based on SGBAU University and same conveyed to the students and staff through the institute academic calendar, induction program, and notices. According to the circular;, all formats for internal evaluation are available in the departments. Internal assessment of Practical, Seminar, and Project evaluation are done according to time table by the respective faculty.

The internal assessment evaluation process, term work marks distribution, scheduled of internal exam and university semester-end examinations, etc informed to students via notices, institute academic calendar, through subject in-charge and also discussed in induction program at the entry-level. For theory, the internal

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evaluation institute carried out two units test (UT- I and II). UT-I, UT-II, internal submission, seminar, and project viva are conducted as per the institute academic calendar based on the SGBAU academic calendar. Unit test marks are displayed on the student notice board and conveyed to parents. All sessional marks like theory, practical, seminar and project are also displayed on the student notice board.

File Description	Documents
Any additional information	<u>View File</u>
Link for additional information	
	NIL

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time-bound and efficient

The examination is conducted under a CCTV-surveillance camera and followed by all university rules.

University Examinations:

The Institute has an Examination team and dedicated university work-related clerk who takes care of exam-related grievance like paper revaluation, University Result in WA/WT/WE/WG, Name correction in mark sheet, if any subject change, etc.

Institute has designed a special form for university examination-related grievance. The student submits this form to the clerk. Clark conveys these grievances to the university through official letters or telephonic conversations depending upon the type of grievance, suppose if the grievance is like a hall-ticket not generated which is to be solved immediately in that case clerk contact to university via telephonic conversation and immediately generates hall ticket and if the grievance is like University Result in Withheld in that condition clerk gives official letter with required poof to university and clerk takes follow-up until the grievance is resolved.

Internal Examinations

After the internal examination, the subject teacher discusses with students about questions and expected answers and if any grievances; then the subject teacher resolved grievances of the internal exam.

Any other grievances like absentees and other; students submit an

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application towards departmental coordinator and valid grievances resolve by discussing with centralized coordinator & HOD.

File	e Description	Documents
Any	y additional information	<u>View File</u>
Lin	k for additional information	
		NIL

2.6 - Student Performance and Learning Outcomes

2.6.1 - Teachers and students are aware of the stated Programme and course outcomes of the Programmes offered by the institution.

The institute has clearly stated the Course outcomes of the Courses. The following mechanism is followed by the institution to communicate the course outcomes to the teachers and students.

- Institute has well-defined course outcomes (CO) for all programs.
- All the faculties were writing appropriate CO's for each course of the program from the first year to the fourth year in a four-year engineering degree program using action verbs of learning levels suggested by Bloom Taxonomy.
- CO's for all the courses are displayed on the respective department page of the Institute website.
- Some CO's are well definite by University. These CO's are communicated and discussed with the students by the subject teacher during the commencement of every chapter.
- Hard Copy of syllabi and course Outcomes are available in the departments for ready reference to the teachers and students.

Following locations are identified CO's are prominently displayed for faculties and students:

- 1. Institution website.
- 2. HOD cabins
- 3. Department Notice Boards
- 4. Department laboratories
- 5. Department Library
- 6. Displayed in classrooms

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for Additional information	NIL
Upload COs for all courses (exemplars from Glossary)	<u>View File</u>

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

1. CO's Attainment

Direct Method:

Performances of students are considered as both, Continuous Internal Evaluation (CIE) and University Semester End Examinations (SEE). CIE is based on two Unit Tests and other components such as Assignments, Seminars, Group discussions, Viva, Laboratory work, Mini Project, Tutorials, etc. The proportional weightage of CIE: SEE is 20:80.

Indirect Method:

In which feedback from students is considered. The attainment levels obtained by the direct and indirect methods are combined to get final CO attainment which is compared with the set target level to identify the attainment gap.

2. PO's and PSO's Attainment

Attainment Evaluation of POs and PSOs are based on Direct and Indirect Methods which are combined to get a final evaluation.

Direct Method

It's based on the mappings from CO's to PO's and PSO's. The strength of mapping is defined at three levels: Low (1), Medium (2), and Strong (3). The program-level Course-PO matrix is prepared for all the courses.

Indirect Methods

Course feedback from students, alumni, and employees is used to evaluate the attainment of POs and PSOs. The overall attainment is computed by adding direct and indirect attainment values in the

proportion of 80:20 and is compared against the target levels.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for Additional information	NIL

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

133

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	<u>View File</u>
Upload any additional information	<u>View File</u>
Paste link for the annual report	NIL

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

http://stc.org.in/images/2.7.1%20Google%20Form%20Report.pdf

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

00

File Description	Documents
Any additional information	<u>View File</u>
e-copies of the grant award letters for sponsored research projects /endowments	<u>View File</u>
List of endowments / projects with details of grants(Data Template)	<u>View File</u>

3.1.2 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.2.1 - Number of departments having Research projects funded by government and non-government agencies during the year

00

File Description	Documents
List of research projects and funding details (Data Template)	<u>View File</u>
Any additional information	<u>View File</u>
Supporting document from Funding Agency	<u>View File</u>
Paste link to funding agency website	<u>NA</u>

3.1.3 - Number of Seminars/conferences/workshops conducted by the institution during the year

3.1.3.1 - Total number of Seminars/conferences/workshops conducted by the institution during the year

01

File Description	Documents
Report of the event	<u>View File</u>
Any additional information	<u>View File</u>
List of workshops/seminars during last 5 years (Data Template)	<u>View File</u>

3.2 - Research Publications and Awards

3.2.1 - Number of papers published per teacher in the Journals notified on UGC website during

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the year

3.2.1.1 - Number of research papers in the Journals notified on UGC website during the year

02

File Description	Documents
Any additional information	<u>View File</u>
List of research papers by title, author, department, name and year of publication (Data Template)	<u>View File</u>

- 3.2.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during the year
- 3.2.2.1 Total number of books and chapters in edited volumes/books published and papers in national/international conference proceedings during the year

00

File Description	Documents
Any additional information	<u>View File</u>
List books and chapters edited volumes/ books published (Data Template)	<u>View File</u>

3.3 - Extension Activities

3.3.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

The institute promotes regular engagement of faculty, students, and staff with the neighborhood community for their holistic development and sustained community development through various activities. Every Year, programs are organized under which students and staff participate voluntarily in community-based activities with the neighborhood.

Social activities carried out through the National Service Scheme (NSS) are:

- 1. Blood Donation Camp
- 2. Swachh Bharat Abhiyan
- 3. Tree Plantation

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- 4. Yoga Day Celebration
- 5. NSS day
- 6. Distribution of masks and sanitizers & create awareness among people.

In the tough time of the corona lockdown period, when most of the people lost their jobs Siddhivinayak Technical Campus, provides the job to ITI and Diploma Passed out students through the following campus drives. All these initiatives have gone a long way in the holistic development personality of the participants of these programs.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	<u>View File</u>

- 3.3.2 Number of awards and recognitions received for extension activities from government / government recognized bodies during the year
- 3.3.2.1 Total number of awards and recognition received for extension activities from Government/government recognized bodies during the year

00

File Description	Documents
Any additional information	<u>View File</u>
Number of awards for extension activities in last 5 year(Data Template)	<u>View File</u>
e-copy of the award letters	<u>View File</u>

- 3.3.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year
- 3.3.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

20

File Description	Documents
Reports of the event organized	<u>View File</u>
Any additional information	<u>View File</u>
Number of extension and outreach Programmes conducted with industry, community etc for the last year (Data Template)	<u>View File</u>

3.3.4 - Number of students participating in extension activities at 3.3.3. above during the year

3.3.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations through NSS/NCC/ Red Cross/ YRC etc., during the year

150

File Description	Documents
Report of the event	<u>View File</u>
Any additional information	<u>View File</u>
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	<u>View File</u>

3.4 - Collaboration

3.4.1 - The Institution has several collaborations/linkages for Faculty exchange, Student exchange, Internship, Field trip, On-the-job training, research etc during the year

00

File Description	Documents
e-copies of linkage related Document	<u>View File</u>
Details of linkages with institutions/industries for internship (Data Template)	<u>View File</u>
Any additional information	<u>View File</u>

- 3.4.2 Number of functional MoUs with national and international institutions, universities, industries, corporate houses etc. during the year
- 3.4.2.1 Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. during the year

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02

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	<u>View File</u>
Any additional information	<u>View File</u>
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	<u>View File</u>

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

The Institution has adequate infrastructure and physical facilities for teaching-learning. viz., classrooms, laboratories, computing equipment, etc as per AICTE norms. There is no deficiency in infrastructure as per the AICTE deficiency report. The details of infrastructure required as per AICTE and available in the institute is as mentioned in the document attached on the link.

https://drive.google.com/file/d/1Sv9OVuFVmnYATob9Nd03RAfCzeHwgwij/view?usp=sharing

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	https://drive.google.com/file/d/1Sv90VuFVmnY ATob9Nd03RAfCzeHwgwij/view?usp=sharing

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

The Siddhivinayak Technical Campus has always encouraged and supported the co-curricular and extracurricular activities like sports, culture in its institute. The institute has also carried forward the legacy of society by promoting the co-curricular and extracurricular activities at their level. All these activities are headed by sports in-charge, Cultural In-charge, and supported by the

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student sports and cultural committees with better coordination. The students who participate in various sports and cultural events are paid TA/DA. The college has the following Outdoor-Indoor sports facilities. Due to Covid-19 Pandemic situations, the user rate during A.Y. 20-21 mentioned below is kept nil.

Outdoor Games: Cricket, Football, Kho-Kho, Volleyball, Kabbadi.

Indoor games: Badminton, Chess, Carom, Hall for Yoga

The society and institute fully support and encourage various sports and cultural activities with the motto that every student should, not only be academically fit but also physically fit to face the challenges of the society after completing their education from the institute.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	https://drive.google.com/file/d/1G31AXf9jBcs ez7yt8o9W-hM1jLP2ep6Q/view?usp=sharing

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

16

4.1.3.1 - Number of classrooms and seminar halls with ICT facilities

16

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	<pre>http://stc.org.in/web/showdetails1.aspx?id=3 3</pre>
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	<u>View File</u>

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

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4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

421925

File Description	Documents
Upload any additional information	<u>View File</u>
Upload audited utilization statements	<u>View File</u>
Upload Details of budget allocation, excluding salary during the year (Data Template)	<u>View File</u>

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

An Integrated Library Management System (ILMS), also known as a library management system (LMS) is an enterprise resource planning system for a library, used to track items owned, orders made, bills paid, and patrons who have borrowed. The Central Library of STC is automated by Koha Library Management Software started in 2017-18 & has Version No. 16.05.19.000. Koha allows total Customization and Complete control of library data at a fraction of the cost of a proprietary system. Its main strength is its web accessibility and ease of use. Koha supports all library housekeeping activities such as Acquisition, Cataloging, Circulation, Serial Control, Patron Management, and WebOPAC: Online Public Access Catalog for searching the library resources. This is an important module of the Integrated Library Management System (ILMS) to Maintain and keep records of the Serials (Print Journals, Magazine, bound volumes, and Newspapers). Through this module, we can track the Subscription period and renewal date of the serials.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for Additional Information	NIL

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources

A. Any 4 or more of the above

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File Description	Documents
Upload any additional information	<u>View File</u>
Details of subscriptions like e- journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	<u>View File</u>

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase of books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

0.68

File Description	Documents
Any additional information	<u>View File</u>
Audited statements of accounts	<u>View File</u>
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	<u>View File</u>

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

42

File Description	Documents
Any additional information	<u>View File</u>
Details of library usage by teachers and students	<u>View File</u>

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

STC has a well-structured IT infrastructure where almost all the computers are connected to LAN. The local area network consists of networking equipment such as switches, routers, ISPs, and the transmission media such as CAT6 and OFC for interconnecting all devices which have been updated regularly every year. The language

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laboratory is equipped with the language lab software ETNL. The internet speed has been upgraded to RAILTEL 50Mbps. Total 70 computers are purchased from HCL, Acer, Dell, Lenovo, and HP. Machines comprise servers, desktops, workstations, etc. 09 web cameras along with 20 headphones were updated in A.Y. 2020-21. INTERNET lines are available in all the seminar rooms. Moreover, all the seminar rooms can also be digitally connected in the broadcasting mode. A dedicated team of 3 members maintains the entire IT infrastructure. The updated infrastructure is as listed

Internet: 50 MBPS

WI-FI: RAILTEL 2.4 GHZ; 50 MBPS

Computers: 70

Web Camera: 09

Head Phone: 20

Projector: 04

Windows 7 Home Operating systems:70

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	https://drive.google.com/file/d/1yt09fJLrQzJ GwrCCNa-LxCoB5efjSEog/view?usp=sharing

4.3.2 - Number of Computers

221

File Description	Documents
Upload any additional information	<u>View File</u>
Student – computer ratio	<u>View File</u>

4.3.3 - Bandwidth of internet connection in the	A. ? 50MBPS
Institution	

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File Description	Documents
Upload any additional Information	<u>View File</u>
Details of available bandwidth of internet connection in the Institution	<u>View File</u>

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

2917091

File Description	Documents
Upload any additional information	<u>View File</u>
Audited statements of accounts.	<u>View File</u>
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	<u>View File</u>

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

The maintenance Supervisor and his team are involved in the maintenance of overall infrastructure facilities. Other than regular maintenance; HODs, section-head report to the supervisor for the maintenance of physical facilities.

Laboratory & Classroom Maintenance:

The preventive maintenance of the equipment is carried out by the laboratory staff. Contact the vendor for major maintenance of equipment. Buildings, classrooms, labs, furniture, seminar-halls, corridor, and all washrooms cleaning are done by team and sweepers under the supervision of a supervisor.

IT Infrastructure Maintenance:

The institution has technical staff and lab assistants to look over

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in the maintenance of computers and accessories like repair of computers, software installation, Wi-Fi, printer-cartage refilling, CCTV camera, etc.

Library:

Library maintenance is done by the central library committee keeping the library clean, bookbinding the weak books, etc. The proper log of visitors is maintained on daily basis.

Others:

The campus has a generator that supplies uninterrupted power to the entire campus. Maintenance of sewerage treatment, rainwater harvesting, lift, water coolers, water-purifiers, firefighting, photocopy machine, AC by the hiring services and maintenance of campus ground, sports facilities are taken care of by physical education officer and supporting staff. Canteen services are outsourced.

File Description	Documents
Upload any additional information	<u>View File</u>
Paste link for additional information	NIL

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

- 5.1.1 Number of students benefited by scholarships and free ships provided by the Government during the year
- 5.1.1.1 Number of students benefited by scholarships and free ships provided by the Government during the year

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File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	<u>View File</u>
Upload any additional information	<u>View File</u>
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	<u>View File</u>

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the institution / non- government agencies during the year

0

File Description	Documents
Upload any additional information	<u>View File</u>
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	<u>View File</u>

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. Al	.l of	the	above

File Description	Documents
Link to institutional website	Nil
Any additional information	<u>View File</u>
Details of capability building and skills enhancement initiatives (Data Template)	<u>View File</u>

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5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

210

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

23

File Description	Documents
Any additional information	<u>View File</u>
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	<u>View File</u>

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	<u>View File</u>
Upload any additional information	<u>View File</u>
Details of student grievances including sexual harassment and ragging cases	<u>View File</u>

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

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23

File Description	Documents
Self-attested list of students placed	<u>View File</u>
Upload any additional information	<u>View File</u>

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

03

File Description	Documents
Upload supporting data for student/alumni	<u>View File</u>
Any additional information	<u>View File</u>
Details of student progression to higher education	<u>View File</u>

- 5.2.3 Number of students qualifying in state/national/international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)
- 5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

00

File Description	Documents
Upload supporting data for the same	<u>View File</u>
Any additional information	<u>View File</u>

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 year
- 5.3.1.1 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 year.

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0

File Description	Documents
e-copies of award letters and certificates	<u>View File</u>
Any additional information	<u>View File</u>
Number of awards/medals for outstanding performance in sports/cultural activities at univer sity/state/national/international level (During the year) (Data Template)	<u>View File</u>

5.3.2 - Institution facilitates students' representation and engagement in various administrative, cocurricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Institute promotes involvement of students in various activities like administrative, co-curricular, and extracurricular by including them as members of the committees. They actively participate in committee meetings.

The following is the list of Committees having student representation and engagement.

College Development Committee: Students can make specific recommendations to the management to encourage and strengthen research culture, consultancy, and extension activities in the college.

Class committee: The Responsibility of the Class Representative is to coordinate between students and faculty by two-way communication. The CR is the only mediator between the professors and the students preventing any miscommunication from taking place.

Department Association Committee: Each Department has its own student Association under which different activities was arranged giving exposure to the extracurricular skills of students.

Grievance Redressal Committee: This committee is responsible for addressing and solving the grievances submitted by students. Each Department has one student representative.

Anti-Ragging Committee: This committee also has a student representative who assures the prevention and reporting of ragging

on the college campus.

Sports Committee: Physical education officer along with the student coordinator manages the sports activities conducted in the college

Cultural Committee: This committee organizes various cultural activities offering students a platform to showcase their talents.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	<u>View File</u>

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

6

File Description	Documents
Report of the event	<u>View File</u>
Upload any additional information	<u>View File</u>
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	<u>View File</u>

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

The registered Alumni association was established in the academic year 2018-19 which contributes significantly to the development of the institution.

Due to the covid-19 pandemic, Institute organized the Online alumni

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meet on the date 25/12/2021 via Google meet. A total of 36 alumni were present for the alumni meet and they have provided various inputs for the development of the institute during the alumni meet also feedback & suggestions were taken from them. Alumni's helped students to get jobs by guiding students and informing the vacancies.

As we all know the year 2020-2021 was a Covid pandemic year and most of the activities were conducted online-only, our students were made aware of recent technologies, trends, and carrier guidance to them by the alumni's by the online program named carrier talks.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	<u>View File</u>

5.4.2 - Alumni contribution during the year (INR in Lakhs)

E. <1Lakhs

File Description	Documents
Upload any additional information	<u>View File</u>

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Vision

The institute envisions being the Centre of excellence in professional development, incubation and entrepreneurship with special application to the rural and developing India.

Mission

To educate students from rural region ethically strong and professionally competent engineers for business and industry and thereby enhancing the quality of life of rural society at large and promote innovation and entrepreneurship through the quality of teaching, learning and research and industry-institute collaborations. The institute shall focus on student centric, work

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centric education and practiced based approach in the training of the students.

Professional development, incubation, and entrepreneurship are the three key parameters in the vision.

The mission statement spells out the needs of the society especially rural regions in innovation and entrepreneurship for enhancing the quality of life of rural society to accomplish the vision of the institution.

NATURE OF GOVERNANCE:

The Governing body (GB) is constituted as per the norms, overseeing the operations of the institute and providing guidelines for the proper functioning of the institute.

PERSPECTIVE PLANS:

The Strategic Plan was developed in the year 2017 for a duration of 10 years.

PARTICIPATION OF THE TEACHERS:

Faculties are represented in all decision-making bodies of the institute namely, GB, CDC & IQAC, etc.

File Description	Documents
Paste link for additional information	<pre>http://stc.org.in/web/showdetails1.aspx?id=1</pre>
Upload any additional information	<u>View File</u>

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

Institute has more than 30 committees with different roles for effective implementation of various academic and non-academic matters.

Case study: Online Examination System.

Due to COVID -19 pandemic; University conducted an online

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examination through the colleges in session 2020-2021. At the start of the academic session, the Principal appointed the University Exam Coordinator (UEC) and assigned the responsibility to conduct the online exam successfully. UEC made team known as the exam section which planned and executed online exams with coordination of different sections. The Principal forwarded notifications received from the university to UEC.

Students: Students filled and submitted an online form with exam fees as per notification.

Exam Section: Circulated the notifications, confirmed the student's exam forms, prepared the list & circulated, distributed hall tickets.

Account Section: Collect the exam fees and draw DD in favor of the University.

Head of Department: Circulated notice regarding subject's codes, verification of exam forms, assigned faculty for paper setting and checking and result preparation.

Faculty: Setting & checking of question paper as per university guidelines and result submitted to HOD. The exam question paper link was sent to respective students through WhatsApp.

The grievances received from students and sections were resolved within time.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	<u>View File</u>

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

One of the short-term plans is "Digital Environment inclusive of E-learning platform".

The strategies to achieve this are

- 1. Update E-learning infrastructure.
- 2. Establish E-learning platforms.

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- 3. E-resource availability.
- 4. ERP implementation.

E-learning infrastructure:

Particular Before_2017 In_2020 Projector 04 08 Camera 02 11 Headphone & Mic 15 35 Wi-Fi Limited data Access Unlimited Data Access Smartboard 00 01

E-learning platforms:

E-learning platforms.

Year of Establishment Virtual lab nodal center 2016 Swayam-NPTEL local chapter-LC2487 2019

E-resource: Finger Trip Access Open Source hyperlink digital technology (FTAOSHDT) is an innovative technology developed by our librarian Mr. Vijay Satao. Using FTAOSHDT students can access unlimited information resources like E-Books, E-Journals, databases, video journals, rare books, national & international digital library projects, university question papers, job vacancies, online courses, etc. remotely. Institute initiated DELNET, HBRP Journal, and National digital library in the year 2018. The library is automated through the Koha library management system.

ERP implementation: ERP system was successfully implemented in the year 2018.

In the Covid-19 pandemic, the curricular & extracurricular activities like existing student admissions, regular classes, unit tests, mentor-mentee meetings, feedback, alumni meet, competitive exam classes, etc. were conducted online. The online helpdesk was provided to students through Google form.

File Description	Documents
Strategic Plan and deployment documents on the website	<u>View File</u>
Paste link for additional information	NIL
Upload any additional information	View File

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies,

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administrative setup, appointment and service rules, procedures, etc.

Vasundhara Bahuddeshiya Samajik Sanstha's Siddhivinayak Technical Campus (STC) was established in the year 2011. STC has a well-structured organizational structure to execute out smooth functioning of administrative and academic processes.

The Governing Body (GB) is responsible for governing and strategic planning of the institute. College Development Committee was formed under Maharashtra Public University Act 2016, Article 97 (1).

The principal is responsible for all policy matters related to both academic and administration and implemented policies with Dean, Office superintendent, IQAC coordinator, in-charges, and other committee coordinators. College Education Council comprising of the Principal, Dean, and HODs meet regularly for effective implementation of the policies. Internal Quality Assurance Cell (IQAC) was established in the year 2018.

STC has more than thirty college-level committees like Examination Cell, Grievance Redressal Committee, Internal Complaint Committee, Training, and Placement cell, Anti-Ragging Committee, Student Council, etc. as shown in the organization chart.

Service rules and all procedures related to recruitment, promotional policies, and service conditions are followed as per the AICTE norms.

Institutional Policies, procedures, and a Code of conduct handbook is in place for all the stockholders.

File Description	Documents
Paste link for additional information	http://stc.org.in/image/banner/policyhandbook.pdf
Link to Organogram of the Institution webpage	http://stc.org.in/web/showdetails1.aspx?id=1 169
Upload any additional information	<u>View File</u>

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning)Document	<u>View File</u>
Screen shots of user interfaces	<u>View File</u>
Any additional information	<u>View File</u>
Details of implementation of e- governance in areas of operation, Administration etc (Data Template)	<u>View File</u>

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff

Welfare measures:

Advances are given to employees.

Employees' Provident Fund is deposited along with the same contribution from institutes' side.

In Covid 19 pandemic, staff was allowed to work from home, and safety arrangements were provided.

Financial support in terms of DA/ TA, DL provides to staff for attending professional development programs.

Support for the Ph.D. program.

The institute provides six months of maternity leaveto all female employees for their first Children after approval of Chairman Sir.

Institute organizes free health checkup camps to ensure the better health of all the employees.

The institute provides a Medical leave facility after approval of Chairman Sir.

Request leave of two hours three times in a month, summer vacation, Casual leave, Earned leave, compensatory off is provided by the institute.

Permission to staff to deliver guest lecturers & visits to industry and higher learning institutes for knowledge acquisition/sharing.

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ICT enabled classrooms for delivering the lectures effectively

Institutional Policies, procedures, and Code of conduct handbook is made available to staff.

Cafeteria facility, Indoor, and Outdoor Sports facilities, Yoga roomare available to staff.

Divyangjan facilities like lift, wheelchair, ramp, and rails & First aid facility at all strategic locations are available.

File Description	Documents
Paste link for additional information	http://stc.org.in/image/banner/policyhandbook.pdf
Upload any additional information	<u>View File</u>

- 6.3.2 Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year
- 6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

12

File Description	Documents
Upload any additional information	<u>View File</u>
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	<u>View File</u>

- 6.3.3 Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year
- 6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

1

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	<u>View File</u>
Reports of Academic Staff College or similar centers	<u>View File</u>
Upload any additional information	<u>View File</u>
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	<u>View File</u>

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

12

File Description	Documents
IQAC report summary	<u>View File</u>
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	<u>View File</u>
Upload any additional information	<u>View File</u>
Details of teachers attending professional development programmes during the year (Data Template)	<u>View File</u>

6.3.5 - Institutions Performance Appraisal System for teaching and non-teaching staff

Yes, STC Shegaon has designed a performance appraisal system.

The functioning status of the Performance Appraisal System for teaching staff:

• The personnel section sends the Performance Appraisal form to

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- faculty members.
- At the end of the academic year, the entire faculty submits the complete Performance Appraisal form.
- Based on the Evaluation parameters the performance of the Faculty members is self-evaluated.
- Personnel section sends hardcopy to feedback coordinator for remark and then to HODs for evaluation purpose. HOD discuss with the dean after HOD's evaluation.
- o Finally, Dean sends all PAF forms to the Principal.
- The principal discusses with the faculty about their Performance and future plans for the growth of the department and institution.
- Finally, the Principal and Dean discuss all reports with Chairman Sir and decide the Promotion for the faculty and also give suggestions for the betterment of their future.

Non-teaching staff:

Circulate hardcopy PAF form to nonteaching and consider the HOD's remark for Technical staff, Office-superintendent's remark for office staff, etc. Finally Principal sends all reports to Chairman Sir. The overall report is further reviewed by the chairman of the governing body and the final performance functioning status is set up and confidentially recorded in the office.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

External Auditor, M/S. Umesh Agrawal & Associates from Khamgaon conducts the external audit of the institute annually. He verifies the finance-related documents like vouchers, bills, bank balance deposit receipts, student receipts, and stock registers. After evaluation of all finance-related documents the observations made by the external auditor are discussed with the college Principal and Management and clarifications are obtained from the account section. Every year the accounts are audited by an external auditor and the

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actions suggested by them are followed by the institute. No major objections are found in the audit by the statutory auditors and minor audit suggestions are compiled as per the procedure. Then audited report is submitted by a chartered accountant.

Internal Audit:

There is no internal audit in our institute. There is an internal approval procedure for all expenses. The account section is having an expenses form that must be filed and approved by the principal before placing any purchase. The account section keeps the records of all daily expenses and income received. The account section shows the daily accounting status to the Principal and monthly to Chairman.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	<u>View File</u>

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

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

00

File Description	Documents
Annual statements of accounts	<u>View File</u>
Any additional information	<u>View File</u>
Details of Funds / Grants received from of the non- government bodies, individuals, Philanthropers during the year (Data Template)	<u>View File</u>

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Mobilization of funds

The main input of funds for the institute is tuition fees decided by Fee Regulating Authority (FRA) and activities like Online Examination Center (OEC), Unnat Bharat Abhiyan (UBA),

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Entrepreneurship Development Cell (ED Cell). A fee amount is collected from students in two parts. The first part is received from the government as a scholarship and the remaining is paid by students.

Institutional strategies

The institutional budget is prepared by the account section in coordination with the Principal every year taking into consideration all expenditures.

All the administrative and academic heads are requested to submit the budget required for the subsequent financial year before the preparation of the budget.

The budget is proposed to the governing body and the final decision is taken by the Governing Body (GB). All the major financial decisions are taken by the governing body.

Resource Utilization:

The available funds are utilized for the allocated purposes. Depending upon priority the financial input is allocated for various purposes. While purchasing for institute quotations are invited from different vendors/suppliers and the best quality with the best price are selected for purchase.

For enhancing resource utilization Siddhivinayak Technical Campus has also started

- o Polytechnic.
- o OEC.
- ED Cells.
- UBA.

File Description	Documents
Paste link for additional information	NIL.
Upload any additional information	<u>View File</u>

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

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Digital Environment:

In the Covid-19 pandemic, the safest measure to avoid infection is to stay at home. The priority of the institute is to keep all staff and students safe from Covid 19 so it was decided to conduct all activities online and to achieve this first step was taken from admission; students were allowed to take admission online. All activities like regular classes, unit tests, mentor-mentee meetings, feedback, competitive exam classes, online helpdesk, etc. were conducted online.

Staff was also allowed to work from home. The Cameras, Mice were purchased, and also unlimited Wi-Fi access was provided.

Online Monitoring System:

To monitor the online teaching process like a lecturer, practicals, Unit Test, etc. it was decided by the IQAC to create one WhatsApp group of all Hod's, IQAC coordinator, Principal, and chairman of the institute. All Hod was instructed to share the links of lectures, practicals, etc. in that group which was monitored by the IQAC coordinator & Chairperson.

Alumni Meet:

It was decided by IQAC to conduct the online Alumni meet which was conducted on 25 Dec 2020 also online carrier talks with the alumni were conducted.

File Description	Documents
Paste link for additional information	NIL
Upload any additional information	<u>View File</u>

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The academic year 2020-2021 was affected by the Covid-19 pandemic and as per instructions from the government as well as higher regulating authorities, it was instructed to conduct all the academic activities online.

Online Academic Activities:

In offline working culture, the Lecturers, Unit Tests, Mentoring Meetings, Feedback, Syllabus status meetings, Carrier guidance programs, remedial lecturers, etc. all were used to conduct offline but due to Covid-19 pandemic and giving first priority to the health of all staff & students, it was decided by IQAC to conduct all the activities online. Staff is allowed to do work from home even in the case of relaxation from higher authorities by providing a facility to visit once a week to the institute.

The online teaching-learning processes, WhatsApp group of all classes were created and all the links of academic activities were posted by faculty into those groups. To monitor the online teaching process like a lecturer, Unit Test, etc. it was decided by the IQAC to create one WhatsApp group of all Hod's, IQAC coordinator, Principal, and chairman of the institute. All Hod was instructed to share the links of lectures, etc. in that group which was monitored by the IQAC coordinator & Chairperson by joining the activities. The online meetings were conducted to review the teaching-learning process like syllabus status, Unit tests, feedback, etc. In 2020-2021 institutes conducted online activities like lecturer, mentor-mentee meeting, feedback, carrier guidance program, alumni meet, etc. under the supervision of IQAC.

Practical & Virtual Lab

The major drawback of online learning was students were not able to attend the practical lab sessions which leads to a deficiency in practical knowledge of students. It was decided by IQAC to overcome this with the help of Virtual Lab & also sending the videos of practical performed by faculties. Institute is registered with the College of Engineering, Pune virtual lab. Online meetings of students were conducted to motivate them for utilization of virtual lab, online virtual lab practicals were performed under the guidance of the subject teacher, and results were submitted to the subject teacher by students. The links of videos of practicals performed by faculty were circulated among the student groups to understand how the practicals perform on practical kits. Students performed practicals in the virtual lab for more than 200 hrs. with more than 4000 simulation hits.

File Description	Documents
Paste link for additional information	NIL.
Upload any additional information	<u>View File</u>

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6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

D. Any 1 of the above

File Description	Documents
Paste web link of Annual reports of Institution	http://stc.org.in/images/STC_ENGG_IQAC_AAA%2
Upload e-copies of the accreditations and certifications	<u>View File</u>
Upload any additional information	<u>View File</u>
Upload details of Quality assurance initiatives of the institution (Data Template)	<u>View File</u>

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

The institute conducts regular gender equity promotion programs.NSS makes the students confident, leadership skills, gain knowledge about different people from different walks of life and ICC provides a platform for women employees and students to express their grievances personally, counseling them.

We arranged AICTE sponsored events for gender equity promotion programs like the Lilavati award for women's health, self-defense, sanitation, literacy, women entrepreneurship, and legal awareness. Virtual Music competition under Mirabai Award, International Women's-Day celebration. NSS cell celebrates virtual Yoga-Day be aware of the art of healthy living, Savitribai Phule Jayanti expresses the importance of women's education.

Specific facilities are provided for women on campus like safety and security, counseling, common rooms, etc. Institute is under CCTV surveillance (Total 54-CCTV), security guards are placed at the

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entrance of the gate and premises. All floors, laboratories, workshop, lift the library of institute equipped with fire extinguishers. Institute has a complaint box for women staff and students. There is Girls Common Room where the girl students may sit, rest, and go for recreation, get relax, study and do informal discussions in their free time available. Internal compliant committee for grievance redressal of girls. Values & Ethics course taught us about gender equity.

File Description	Documents
Annual gender sensitization action plan	https://drive.google.com/file/d/1oT0IzXlDO t84trnOwRvYBhM4oAXc3T/view?usp=sharing
Specific facilities provided for women in terms of: a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	http://stc.org.in/web/showdetails1.aspx?id=3 3

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensorbased energy conservation Use of LED bulbs/power efficient equipment

B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Waste management includes the processes and actions required to manage waste. Institute is having MOU with Mayank Infracon Private limited for the collection of E-waste at the end of every semester and solid waste is collected at every week.

1. Solid Waste Management: Every-day academic buildings and other surrounding areas on the campus are cleaned by Sweepers and they separate out wasteon the basis of dryness and moisture

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- present in it, which is collected by Mayank Infracon Private limited.
- 2. Liquid Waste Management: -Liquid waste from the points of generation like the canteen, toilet, water coolers, RO plant, etc. is let out as effluent into a proper drainage facility to avoid stagnation.
- 3. E-Waste Management: As per MOU E-waste collects and then system analysts identify useful E-waste for the hardware lab and the remaining E-waste is collected by Mayank Infracon Pvt Ltd for recycling.
- 4. Biomedical Waste Management: In the biomedical waste management system, the sweeper collects the sanitary napkin from the girls washroom & common room and this waste is deposited into the waste collection vehicle of Nagar Parishad.
- 5. Hazardous Chemical and Radioactive Waste Management: In our academic curriculum; no Hazardous chemicals are required and noRadioactive Waste is generated.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<u>View File</u>
Geo tagged photographs of the facilities	https://drive.google.com/file/d/1eDFc9vCc97A k-h8-g_cwTnbIw0XhNYXc/view?usp=sharing
Any other relevant information	<u>View File</u>

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geo tagged photographs / videos of the facilities	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

- 1. Restricted entry of automobiles
- 2. Use of Bicycles/ Battery powered vehicles
- 3. Pedestrian Friendly pathways
- 4. Ban on use of Plastic
- **5. landscaping with trees and plants**

File Description	Documents
Geo tagged photos / videos of the facilities	<u>View File</u>
Any other relevant documents	<u>View File</u>

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities

A. Any 4 or all of the above

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	<u>View File</u>
Certification by the auditing agency	<u>View File</u>
Certificates of the awards received	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading material, screen reading

A. Any 4 or all of the above

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File Description	Documents
Geo tagged photographs / videos of the facilities	<u>View File</u>
Policy documents and information brochures on the support to be provided	<u>View File</u>
Details of the Software procured for providing the assistance	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

Institute surrendered its management admission quota to the government for admission purposes which are having reservations for socially and economically weaker sections, women's, Divyangjan, etc.

Students were allowed to do part payment of fees.

The scholarship section of the institute properly observed the Govt. scholarship process and guided students for the same.

In the library, various books like Bhagvatgeeta, Gramgeeta, Islam, etc. are made available for students.

Institute was having SC/ST committee to assist students.

Flyers were designed and circulated among the students, staff as well as on social sites.

Communication Skil, Value and Ethics, Professional ethics subjects were taught.

The cultural committee was constituted in the institute which conducted programs like Independence Day, Republic Day, Ganesh Festival, National Youth Day, and virtual cultural program.

NSS organized programs like tree plantation, blood donation, International Yoga-Day, Teachers Day, National Service Scheme day, Gandhi Jayanti, Indian Constitution day, Savitribai Fule Jayanti, World Earth day, World environmental day, etc.

Unnat Bharat Abhiyan was implemented by the institute in 5 nearby

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villages.

The campus is having girls common room with a sanitary napkin machine and napkins are provided free of cost by the institute.

For Divyangjan wheelchair, lift, ramp_rails, and washroom is provided.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

Our institute not only prepares a sound academic foundation for the student but also constantly works to develop them as better citizens of India. Constitutional rights, values, duties, and responsibilities are one of the primary educations given at the institute through various means by a celebration of Independence Day, Republic day, National Voters day, yoga day, birth and death anniversary of Indian freedom fighters etc.

Sensitization of students and employees of the Institution to the constitutional obligations is done through curriculum as well as through extra-curricular activities. Many of the subjects offered have topics which sensitize the students about the constitutional obligations e.g. one subject named as values and ethics added by university in syllabus so to get knowledge of values and ethics. Also, all students take a course of Environment studies to know about its values.

In addition to this many regular programs are conducted by ICC cell to educate women about their rights. NSS cell conducts various programs to aware students of values and ethics.

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File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff

4. Annual awareness programmes on Code of Conduct are organized

C. Any 2 of the above

File Description	Documents
Code of ethics policy document	<u>View File</u>
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

To maintain harmony and a healthy work atmosphere and to make the learners aware of the national pride and rich cultural heritage, the National/International commemorative days are regularly being celebrated and observed in STC.

- Every year the Institute celebrates National Festivals such as Independence Day on 15thAugust and Republic Day on 26thJanuary with pomp and gaiety by hoisting the national tricolor on the Main Campus. After unfurling the flag, students sing the National Anthem.
- STC organizes Teacher's Day every year on September 5 in memory of Dr. S. Radha Krishnan, former President of India.

- Eminent educationists and teachers are invited to deliver the Teacher's Day.
- AlsoWomen's day is celebrated on International Women's day i.e. March 8 to show respect towards women in all the efforts taken by them to manage their personal and professional life and for their contributions.
- For the academic year 2020-21, we celebrated various days like World Environment Day, International Yoga Day, Independence Day, Republic Day, International Women's Day. We also celebrated the Birth Anniversaries of Dr. Sarvapalli Radhakhishnan, Smt. Savitribai Phule, Swami Vivekananda Jayanti and Jijamata Jayanti.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	<u>View File</u>
Geo tagged photographs of some of the events	<u>View File</u>
Any other relevant information	<u>View File</u>

7.2 - Best Practices

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

Best Practice No.1: Student Capability Enhancement & Development Program Title: Student Capability Enhancement & Development Program

Objectives:

- To assist students to develop/clarifying their academic and career interests, and their short and long-term goals through individual counseling and group sessions
- To assist students with industrial training at the end of the fourth and sixth semesters.
- To provide resources and activities to facilitate the career planning process.
- To assist students in obtaining placement in reputed companies.
- To prepare students for job opportunities in government sectors and off-campus drives.

Context:

There is a rigid requirement for the Student Capability Enhancement & Development Program as the majority of students in the institute are from a rural area and they lag in Communication skills, Aptitude, Public Speaking, Presentation skills, Leadership quality, etc. Our institute organized Aptitude and ability tests for students from the starting of the course establishing a better buildup of confidence, communication skill, and character required for placements in reputed companies.

Practice:

Aptitude and ability tests are designed to assess the logical reasoning or thinking performance of students. Under T&P faculty conduct aptitude classes in a week of two days at 3:15 PM for all third-year & final-year students. After completing classes they take an aptitude test. The test consists of multiple-choice questions and is administered under exam conditions. They are strictly timed and a typical test might allow 30 minutes for 30 or so questions. The test results will be compared to that of a control group so that judgments can be made about student'sabilities. Students may be asked to answer the questions either on paper or online. Aptitude and ability tests can be classified as speed tests or power tests. In speed tests, the questions are relatively straightforward and the test is concerned with how many questions you can answer correctly in the allotted time. Speed tests tend to be used in selection at the administrative and clerical levels. A power test on the other hand will present a smaller number of more complex questions. Power tests tend to be used more at the professional or managerial level. There are at least 5000 aptitude and ability tests on the market.

Some of them contain only one type of question (for example, verbal ability, numeric reasoning ability, etc.) while others are made up of different types of questions.

Evidence of Success:

Institute organized certified courses for the third and final year students of all branches. In this course, all Committee Members give valuable knowledge about Aptitude classes. It helps students to understand how to face the competitive exams, also helps to brush up their reasoning ability regarding various Competitive studies. Provide help in product development to students. This will definitely our students in the future to choose their carrier. In this course total of 170 students were benefited. Out of these two students are selected in the government exam. Some students are selected from more than one company.

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Year: 2020-21

In Campus: 22

Off-Campus: 13

Total Students Place: 35

Best Practice No. 2: Virtual Lab Program

Objectives of Virtual Lab 1. To provide remote access to Labs in various disciplines of Science and Engineering for scholar students.

2. To arouse curiosity in students and help them to learn basics and advanced concepts through remote. 3. To provide a complete Learning Management System around the Virtual Labs to provide students with demonstrations and self-evaluation. 4. To provide remote access to costly equipment and resources, which are otherwise available locations.

Context:

By using virtual labs we enhanced educational tools, laboratory learning is being extended beyond the walls of the classroom. Virtual labs are immersive media-rich online learning environments, where users can perform physical laboratory experiments in a computer-simulated environment - Anytime, Anywhere. Whereas traditional physical laboratories require tremendous resources, virtual labs are cost-effective whilst providing near the hands-on experience of experimentation. Virtual labs provide an educational experience that helps broaden learner's perspectives. COEP & Amrita's VALUE virtual labs apply new learning technologies that are exciting and fun for the new generation of students. We are the nodal center for virtual labs for different disciplines in Science and Engineering.

Disciplines and Domains: 1. Electronics & Tele-Communications Engineering 2. Computer Science & Engineering 3. Electrical Engineering

- 4. Mechanical Engineering 5. Civil Engineering 6. Physical Sciences
- 7. Biotechnology & Biochemical Engineering 8. Chemical Engineering

Practice: Our institute adopted the following methodology to carryout VLAB

Step 1- 1st Pre-lab session

Introductory Discussion: 1. What is a virtual lab? 2. Need & benefits of Virtual Lab in today's era. 3. Review of current technologies and development methodologies used in virtual labs for the STEM (Science, Technology, Engineering, and Mathematics) subjects. 4. How to use virtual labs & how to perform the experiments using virtual labs. Take a glance of experiments to be conducted from the next lab session

- Step 2 2nd Pre-lab session onwards: 1. Ask to search the background, history of a particular experiment concept to be conducted, through reference books, research papers, and by watching related videos from the internet. 2. Conduct discussion on the survey done by students related to concept between lab instructor and student before the actual performance of experiment on the virtual lab. 3. The lab instructor will try to provide a brief about the procedure to be followed during experiment performance.
- Step 3 Post lab session: 1. Evaluate the student on the basis of Viva with the following mark distribution, Performance Concept Understanding Innovative Idea Out of Mark 10 05 05 20.
- 2. Also, evaluate and grade the last week's home assignment. 3. Conducted brief group experience sharing session on Problems faced during the performance 4. The difference between physical & virtual lab students has been observed. 5. Observations and conclusion & results gained at the end of the experiment. 6. Techniques and skills gained during the virtual lab sessions.
- Step 4- Take-home assignments: 1. On the basis of the experiment, give students different types of problems given to the student for practice. 2. Give the designing assignment to the students, if applicable. 3. Survey Assignment as to find the different ways to perform the particular experiment, expect used in a virtual lab 4. Real-life use of the concept. 5. Case studies related to the topic. 6. Animation creation for illustration of a topic, if possible. 7. Testing and validation of a different range of inputs and outcomes.

Evidence of Success: Virtual Labs covers various types of experiments for students to perform online Experiments. It also simulates physical phenomena by a set of equations to yield the result of remotely triggering an experiment in an actual lab and providing the student with the result to carry out the actual lab experiment remotely.

On the Virtual Lab portal, our student Uses time is 200:52:17 for the session 2020-21 and Total No. Hits are4024 which the evidence of success.

File Description	Documents
Best practices in the Institutional web site	<u>View File</u>
Any other relevant information	<u>View File</u>

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

Our institute is established in a rural area. The vision, mission, and core values of the institute are influenced by envisions of being the Centre of excellence to help develop India by developing rural areas.

Most of our students are from rural areas and they belong to economically weaker backgrounds. We strongly believe that by improving the student life we are also improving their family life.

It was observed that our students were good in technical knowledge but had a lack of communication and aptitude & reasoning skills so to improve students in these skills we have conducted online activities.

To improve aptitude & reasoning skills in the month between January to March 2021online lecturers were conducted by our institute faculty as well as outside experts. The classes were scheduled every Friday between 3.15 PM to 5.15 PM for third and final-year students. Test on the same topic was conducted after the class on the same day.

To improve communication skills, an outside expert Ms. Seema Khomne was hired who had taken online activities like group discussion, interviews, etc.

Students were allowed to part payment of fees so that their economic condition must not be an obstacle in education.

File Description	Documents
Appropriate web in the Institutional website	<u>View File</u>
Any other relevant information	<u>View File</u>

7.3.2 - Plan of action for the next academic year

The action plan for the next academic year is prepared by considering the 2020-2021 Academic and Administrative Audit (AAA) report. The action plan for 2021-2022 is prepared to overcome the deficiencies observed in the AAA report 2020-2021. Some of the key actions to be taken in the next academic year are as follow:

- To conduct professional development program for teaching & Non Teaching.
- Student'sinvolvement in Internship/ fieldwork.
- Increase the number of addon programs for students.
- Organize conference.
- Motivate & increase the involvement of staff & students in research & get research funding.
- Develop more linkages & MOUs.