



YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	SILICON INSTITUTE OF TECHNOLOGY
• Name of the Head of the institution	DR JAIDEEP TALUKDAR
• Designation	PRINCIPAL
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	
• Alternate phone No.	
• Mobile No. (Principal)	9051419777
• Registered e-mail ID (Principal)	jaideep@silicon.ac.in
• Address	chandka industrial Estate
• City/Town	Bhubaneswar
• State/UT	Odisha
• Pin Code	750124
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	27/09/2018
• Type of Institution	Co-education

• Location	Urban				
• Financial Status	Self-financing				
• Name of the IQAC Co-ordinator/Director	DR SIBA SANKAR NAYAK				
• Phone No.					
• Mobile No:	9861930033				
• IQAC e-mail ID	IQAC@SILICON.AC.IN				
3.Website address (Web link of the AQAR (Previous Academic Year)	www.silicon.ac.in				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	yes				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 2	A	3.01	2018	30/12/2018	31/12/2023
6.Date of Establishment of IQAC		27/01/2012			
7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?					
Institution/Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount	
0	0	0	Nil	0	
8.Provide details regarding the composition of the IQAC:					
• Upload the latest notification regarding the composition of the IQAC by the HEI		View File			
9.No. of IQAC meetings held during the year		02			
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?		Yes			

10. Did IQAC receive funding from any funding agency to support its activities during the year?	No
11. Significant contributions made by IQAC during the current year (maximum five bullets)	
1-Transition to a State Private University Status 2-Establishment of a COE in IOT by the University 3- Significant enhancement in the quality of research paper 4-Increase in the number of Ph.D students 5- Proposal for new courses in emerging areas like IIOT, VLSI Molecular Medicine	
12. Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:	
Plan of Action	Achievements/Outcomes
1-Proposal for starting new Programs in emerging areas	1- MSc programs in VLSI, IIOT, Molecular Medicine started
13. Was the AQAR placed before the statutory body?	Yes
<ul style="list-style-type: none"> Name of the statutory body 	
Name of the statutory body	Date of meeting(s)
Executive Council	15/12/2023
14. Was the institutional data submitted to AISHE ?	Yes
<ul style="list-style-type: none"> Year 	
Year	Date of Submission
2021	12/10/2022
15. Multidisciplinary / interdisciplinary	
<p>In order to develop the all-round capacities of the students- intellectual, aesthetic, social, physical, emotional and moral inan integrated manner, the college is preparing to includemultidisciplinary subjects as per the National EducationalPolicy2020. Keeping in view the problems faced by the students,thecollege is planning to set up regular and short term courses in multidisciplinary and interdisciplinary areas. The aim is to makethe students equipped for a holistic approach in the presentand emerging situation. As the College is preparing itself to have more of multi-disciplinary subjects it tries to identify the programme learning outcomes along with courses and unit learning outcomes that define the specific knowledge, skills, attitudes and values that are to be acquired by the learner and would ensure that each programme achieves its goal.Special care is</p>	

taken by the institute and its academic bodies to start new courses and programmes.

16.Academic bank of credits (ABC):

Regarding the implementation of Academic Bank of Credits, the institution has to wait for the academic council to give a green signal. The pedagogical approach of the faculties' are constructivist, inquiry-based, reflective, collaborative and integrative. Summative and Formative assessments and assignments are used to evaluate the Students learning outcome. Mandatory internship along with the concept of Practice school has been introduced. We have registered for the Academic Bank of Credit.

17.Skill development:

To improve skill orientation through curricular and co curricular activities To encourage entrepreneurship by offering a good entrepreneurial climate In pursuance of the "Atmanirbhar Bharath' campaign and Startup India' mission of the Govt of India, efforts have been made for creating a conducive climate for nurturing entrepreneurial passion amongst the youngsters. Silicon's incubation center is a place to build future entrepreneurs mainly from Silicon faculties and students and see them realize their dreams. The focus areas are: Entrepreneurship Development Building Industry-Student and Industry-Industry-Faculty Relationships Building Industry Focused Technology Value Stream Employment Generation Enable Automation in the Local Market Silicon has been approved as Business Incubator (BI) by MSME, Govt. of India under the scheme "Support for Entrepreneurial and Managerial Development of MSMEs . The BI is entitled to get a funding up to 1 crore for machinery and equipment to develop incubation labs. Under this scheme 10 innovative proposals from students and entrepreneurs will also be funded every year. Each innovative idea will get a funding of 15 lakh to develop the product within one year. Apart from this, there is a provision of seed capital up to 1 crore for commercialization of a product for existing entrepreneurs. Skill based Programs like NIRMAN is celebrated each year with the participation of our own and outside students.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

The institute commemorates Mother tongue day, and Yoga Day as an act of reverence towards Indian languages and culture. The promotion of Indian languages, traditions is also facilitated through competitions organized during the annual cultural festival. Competitions such as essay writing, poetry, speech competition, folk song, folk dance and skit encourage students.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

Outcome-Based Education (OBE) is a pedagogical model that entails the restructuring of curriculum, pedagogy and assessment practices to reflect the achievement of high-order learning, as opposed to a mere accumulation of course credits. All the faculties of the

college were trained in OBE. Based on the training, all courses were designed under OBE paradigm with Program Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (CO) specified. The integration of OBE in curriculum has been introduced in 2018. During the student induction program, the students are given an orientation on Outcome Based Education paradigm; and the Program Outcomes are explained to the students. The curriculum clearly states Program Outcomes (PO), Program Specific Outcomes (PSO) and Course Outcomes (CO) and teaching-learning pedagogy adapted at the institute. Every faculty explains the course outcomes of each course before the commencement of the same. The integration of OBE in Question Bank was introduced in 2018 and a notable initiative was the preparation of question bank based on bloom's taxonomy. It enables the assessment of the students at cognitive levels namely remembering, understanding, applying, analyzing, evaluating and creating..

20.Distance education/online education:

As a part of the internship program many courses are provided through online platform. Online education provides ample flexibility to students to learn and explore as per their requirements at their pace. Many course materials developed by our own faculties and other learning resources are available on the Silicon Intranet for the students to study. Faculties are encouraged to do online courses on various online platforms like Swayam and NPTEL. For this the institute gives incentives and grading during annual appraisal. The students are entitled to go for 2 MOOC courses in their study. This is mandatory. The college is an active Local Chapter of NPTEL courses

Extended Profile

1.Programme

1.1	11
Number of programmes offered during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1	2757
Total number of students during the year:	

File Description	Documents
Institutional data in Prescribed format	View File

2.2	628
Number of outgoing / final year students during the year:	

File Description	Documents
Institutional Data in Prescribed Format	No File Uploaded

2.3	5274
Number of students who appeared for the examinations conducted by the institution during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1	11
Number of courses in all programmes during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	157
Number of full-time teachers during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.3	158
Number of sanctioned posts for the year:	

4.Institution

4.1	102
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	

4.2	40
Total number of Classrooms and Seminar halls	

4.3	908
Total number of computers on campus for academic purposes	

4.4	2305
Total expenditure, excluding salary, during the year (INR in Lakhs):	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional developmental needs which are reflected in Programme Outcomes (POs), Programme Specific and Course Outcomes (COs) of the various Programmes offered by the Institution.

The curriculum development process ensures that the developed curriculum aligns with the Program Educational Objectives (PEOs) and Program Specific Outcomes (PSOs) of the respective program. To maintain academic quality and adhere to regulatory guidelines, the curriculum incorporates different types of courses such as general education (GE), professional core (PC), professional electives (PE), and open electives (OE) in a balanced manner. In response to the requirements of local, national, and global needs, the curriculum includes specific courses that address Environmental Sustainability, Professional Ethics, and Communication skills, which enhance their relevance.

- Each course within all the programs, Course Outcomes (COs) are designed and mapped with the Program Outcomes (POs) and Program Specific Outcomes (PSOs).
- This alignment ensures that the desired learning outcomes of each course contribute to the overall goals and objectives of the program.
- The COs are carefully designed using action verbs from all the six levels of the revised Bloom's Taxonomy, thereby promoting and sustaining higher-order thinking skills among students.
- The design approach fosters deep learning, encourages critical and creative thinking, and facilitates the development of advanced cognitive skills.
- The curriculum ensures that students are equipped to address and solve real-world societal challenges.
- Departments have integrated application-oriented components, including project-based learning, internships, fieldwork, and dissertations, into their curricula.
- Provide students with practical experiences and hands-on learning opportunities, allowing them to apply their theoretical knowledge to real-world scenarios. This approach enhances their understanding, critical thinking abilities, and problem-solving skills.

File Description	Documents
Upload additional information, if any	No File Uploaded
Link for additional information	No Link Provided

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

09

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View
Details of syllabus revision during the year	View
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

11

File Description	Documents
Curriculum / Syllabus of such courses	
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	
MoUs with relevant organizations for these courses, if any	
Any additional information	

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

11

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View
Any additional information	No File
Institutional data in prescribed format (Data Template)	View

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective

11

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View
Any additional information	No File
List of Add on /Certificate programs (Data Template)	No File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Environment and Sustainability, and Human Values into the curriculum

Most of our curriculum focus on Effective communicationskills and leadership/participation in team Fulfilment ofprofessional, social and responsibilities;

(i) Environmentaland energy issues and concerns;

(ii) Planning,development implementation of strategies for life-long

(iii) Emphasis has been on subjects like environmental study, Human and Professional value study has been added as a mandatory coursefrom 1st

(iv) Yoga has been a mandatory courses for all students as a part of the

(v) Students regularly participates in Poster andDebate Competition, and

(vi) Women's Cell, Nature Club, Entrepreneurship and DevelopmentClub, Environment Club,Organic Farming Club are platformsto integrate cross

issues.

(vii) Projects made mandatory for all students also focuses on cross irrelevant subjects. (viii) Value education, Language courses offered & activities conducted by college have emphasis on gender sensitisation

The college has a Gender Policy, and Gender Audit is done to assess the needs to be addressed in gender issues. Development of socially responsible ethical behaviour have been stated in the Programme/Course Outcomes of

File Description

Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum

Any additional information

1.3.2 - Number of value-added courses for imparting transferable and life skills offered

00

File Description

Document

List of value-added courses

No File Uplo

Brochure or any other document relating to value-added courses

No File Uplo

Any additional information

No File Uplo

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

00

File Description

Documents

List of students enrolled

No File Uplo

Any additional information

No File Uplo

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

2017

File Description

Document

List of programmes and number of students undertaking field projects / internships / student projects

Any additional information

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from
1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description

Documents

Provide the URL for stakeholders' feedback report	https://erp.silicon.ac.in/estcampus/reports/student_feedback_role_code=Sk1YYWc2eWpoTzlMOVh6WlJpV0gvUT09
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, and action taken made available on website

File Description	Documents
Provide URL for stakeholders' feedback report	https://erp.silicon.ac.in/estcampus/reports/student_feedback_role_code=Sk1YYWc2eWpoTzlMOVh6WlJpV0gvUT09
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

925

File Description	Documents
Any additional information	No File Uploaded
Institutional data in prescribed format	View

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

233

File Description	Documents
Any additional information	No File Upload
Number of seats filled against seats reserved (Data Template)	No File Upload

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for advanced learners.

The following steps are carried out by the Institute on a regular pro

- **Orientation Programme:** Every Year during the induction programme, talks by eminent speakers are arranged to motivate the students about art technologies, as well as on life skills and after completion of Induction program, an Induction Program Test (IPT) is conducted consisting of MCQ.
- **Bridge Course:** A Bridge Course, "SIT PRAVESH" is organized for the students to create a curiousness and understanding of the basic science.
- **Peer Guidance:** For the students joining under the lateral entry scheme, College offers them peer guidance by conducting additional classes.
- **Faculty Adviser:** The Institute has a strong mentor-mentee scheme for the academic and personal counselling of the students.

Activities for Slow Learners

Here are some simple activities that we execute to improve the performance of slow learners and uplift their skills.

- Conduct group activities to boost interactive learning and confidence.
- Curate exercises and homework with lower difficulty levels and gradually increase the difficulty level for the students to get acquainted with the topic at a slow pace.

Advanced Learners: Advanced learners are provided several opportunities to showcase their knowledge and skills.

Students are motivated to participate in various inter and intra college competitions, paper presentation, idea presentation,

File Description	Documents
Upload any additional information	No File Upload
Paste link for additional information	No File Upload

2.2.2 - Student - Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
01/09/2022	2756	158

File Description	Documents
Upload any additional information	No File Upload

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-based methodologies are used for enhancing learning experiences:

Silicon practices a combination of traditional and modern methods of the faculty members are exposed and trained on these different methods adequately knowledgeable to choose the suitable method or methods for be taught in the class. The followings are a list of methods 1. Lecture discussion: 2. Brain Storming: The faculty members allow the students over some topic or problems to reach or propose a solution.

3. Case Studies: 4. Role Playing: 5. Worksheets/Surveys: Students are handle data representation and analyze them through worksheets and class questionnaires and survey 6. Working Models/Live Specimens: 7. Guest break the monotony the departments invite guest speakers to deliver the important topics on frontier of technology. The students attend these enthusiastically. 8. Students Seminar: 9. Home Work / Assignment

10. Learning Societies : We have a dedicated student chapter of IEEE, which help the students to develop a record of accomplishment and carry beyond the norm by several branch activities, social and technical meet outreach programs, conferences, at local Section or Regional opportunities and Project labs are established and MoU's with various industries like PRDC, Sankalp semiconductors and many more are signed to promote the of the students. Centre of excellence is established to promote industry training as well as research for students.

File Description	Documents
Upload any additional information	No File Upload
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and

All class room and seminar halls are fully equipped with modern ICT enabled teaching learning methods are in implementation in the more courses added every year. The faculty use ICT enabled classrooms projectors, Wi-Fi connectivity, software, PowerPoint presentations and teachers to expose the students to advanced knowledge and practical labs are updated with new software like Python, MATLAB, Microsoft Office Excel utility. In addition, they are cost-efficient and eliminate the Alongside minimizing cost, they also save time during class lectures and dynamic transmission of content. They use conventional methods like which is teacher centered and other methods which are interactive, computer ICT enabled such as Microsoft Teams, Zoom, Google Classroom. The institution using IT enabled learning tools such as PPT, Video clippings, animations demonstrations from online sources apart from providing reading materials manuals through emails and other methods for effective teaching-learning Printing facility is available in all the labs. The students and faculty email, group mails, and social networking tools for instantaneous communication information dissemination

File Description	Documents
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Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://silicon.ac/home/mandatory-di
Upload any additional information	No File Upload

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

99

File Description	Document
Upload year-wise number of students enrolled and full-time teachers on roll	
Circulars with regard to assigning mentors to mentees	No

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Preparation and Adherence of Academic Calendar: The institution prepares academic calendar every year in advance. The coverage of academic calendar includes the list of examination dates, workshops and industrial visits holidays, dates, festivals, etc.

Academic calendar provides the total effective working days available in a semester. Then the director and senior colleagues prepare the time table correlating the working days available and coverage of curriculum of the semester. Thus the academic calendar monitors the effective delivery of the programme. Academic and business inputs. Preparation and Adherence of Teaching Plans: Faculty members prepare teaching plan for their respective subjects for 48 hours depending on the course content. These hours are distributed among teaching, question discussion before the midterm and term-end examinations.

Similarly for lab session as per the subject requirements. These

plans are made in advance and serves as guide for conducting sessions. Dean (Academics) and HODs check the progress of each course and ensure effective completion of course in the specified time frame with perfect practical and theoretical input.

File Description
Upload the Academic Calendar and Teaching Plans during the year

2.4 - Teacher Profile and Quality

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

158

File Description	Document
Year-wise full-time teachers and sanctioned posts for the year	1
List of the faculty members authenticated by the Head of HEI	1
Any additional information	No File Upload

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DS year**85****File Description**

List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years

Any additional information

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teaching experience in the current institution)**1458****File Description**

List of teachers including their PAN, designation, Department and details of their experience

Any additional information

2.5 - Evaluation Process and Reforms**2.5.1 - Number of days from the date of last semester-end/ year- end examination till the results during the year****30****File Description**

List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result

Any additional information

2.5.2 - Number of students' complaints/grievances against evaluation against the total number appeared in the examinations during the year**158****File Description**

Upload the number of complaints and total number of students who appeared for exams during the year

Upload any additional information

2.5.3 - IT integration and reforms in the examination procedures and processes including Co Assessment (CIA) have brought in considerable improvement in the Examination Management the Institution**Assessment is an integral part of system of education as it is instrumental in identifying and certifying the academic standards accomplished by a student**

projecting them far and wide as an objective and impartial indicator performance. There will be continuous assessment of a student's performance throughout the semester and grades will be awarded based on assessment subject teacher and performance in different examinations. The assessment performance will be done for Theory, Teachers

assessment etc. Question papers for Mid-Term and End-Term examinations (PG programs) shall be prepared primarily electronically as per the process in the ERP system. All teachers who have preference for teaching the subject having expertise in the subject shall contribute to the question bank of the subject created in the ERP system. There will be arrangements with appropriate restrictions made inside the Institute to evaluate the answer scripts electronically. However facilities may be provided to an examiner for evaluation from home if required. The following cares are to be taken for evaluation of answer scripts:

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	No Link

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institute displayed on the website and communicated to teachers and students

In strict compliance with the objectives of Outcome Based Education (OBE), Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs) are framed by the department offering the concerned program after rigorous consultation with all faculty and the stakeholders. After attainment of the same are widely propagated and publicized through various means such as website and/or communication specified hereunder. Website Curriculum

Class room Department Notice Boards Laboratories Induction Programs Meetings/ Interactions with employers Parent meetings Alumni meetings Professional Body meetings Library While addressing students, the HODs create awareness on POs, PSOs and COs. The faculty teachers, mentors, course coordinators, program/ISO coordinators also create awareness and emphasize the need to attain the outcomes.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	https://silicon.ac.in/wp-content/uploads/2021/08/BTECH-CSE-2021.pdf

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institute

Course outcome assessment is a process of systematic collection and analysis of information that provides data to the extent to which the input teaching resources have been utilized. The process culminates with adoption of measures to improve student learning and meet the desired output. This information is used for • Improving teaching learning method; • Improving the syllabus by

- Introducing additional training programs and • Redefining the CO to align with the course contents and objective. The basic principles of assessment are:
 - Assessment of student learning begins with educational
 - Assessment works best when the programs it seeks to improve have clearly stated purposes;
 - Assessment fosters wider improvement when representatives across the educational community are involved;
 - Assessment is most likely to improve when it is part of a larger set of conditions that promote and
- Various assessment tools / techniques can be used for measuring Course
- End-Semester Examination: Semester End Examination is a standard method of assessing whether the outcomes are attained or not. Examination is made for the attainment of Course outcomes and Program outcomes using a descriptive

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	https://silicon.ac.in/bk

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted

595

File Description	[
Upload list of Programmes and number of students appear for and passed in the final year examinations	
Upload any additional information	
Paste link for the annual report	

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institutional questionnaire). Results and details need to be provided as a weblink

<https://silicon.ac.in/wp-content/uploads/2024/01/SSS-2022-23.pdf>

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined promotion of research which is uploaded on the institutional website and implemented

Silicon Institute of Technology supports an expanding research entry to producing new knowledge, strengthening existing scholarship and disseminating solutions with the potential to benefit society. Silicon researchers with academics, industry experts and scientists from across the globe advance in science and technology. State-of-the-art infrastructure, interdisciplinary research groups, and partnerships create a vibrant ecosystem. Few of the ongoing research at Silicon campuses include developing optics sensors for civil applications, modernizing the electric grid with bidirectional communication, computer vision, and developing CMOS circuits and electronic system design. The in-house Silicon Research Scheme promotes excellence in higher education and research by funding projects for up to one year undertaken by faculty members in various

disciplines. Facilities created or provided are given below. Air-conditioned and high speed internet connections

Financial assistance for patenting Incentives for journal publication journals and e-books Air-conditioned digital library with high speed connections Institute sponsored IEEE membership Free access to Science Scopus Indexed Journals Free access to Wiley, Springer, and Proquest Licensed Software like MATLAB, COMSOL, TCAD

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	No File Upload
Provide URL of policy document on promotion of research uploaded on the website	https://silicon.a/home/research-at
Any additional information	No File Upload

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the

675920

File Description
Minutes of the relevant bodies of the institution regarding seed money
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized
List of teachers receiving grant and details of grant received
Any additional information

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for studies/research during the year

02

File Description
e-copies of the award letters of the teachers
List of teachers and details of their international fellowship(s)
Any additional information

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research endowments, Chairs during the year (INR in Lakhs)

550000

File Description

e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations
List of projects and grant details
Any additional information

3.2.2 - Number of teachers having research projects during the year

02

File Description	Documents
Upload any additional information	No File
Paste link for additional Information	N
List of research projects during the year	View

3.2.3 - Number of teachers recognised as research guides

12

File Description
Upload copies of the letter of the university recognizing teachers as research guides
Institutional data in Prescribed format

3.2.4 - Number of departments having research projects funded by Government and Non-Governmental agencies during the year

0

File Description	Documents
Supporting document from Funding Agencies	No File
Paste link to funding agencies' website	
Any additional information	No File

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

SiliconTech established the Institution Innovation Council (IIC) on 2nd April 2014 as per the norms of the Innovation Cell, Ministry of Human Resource Development (MHRD), Government of India. The MHRD established MHRD's Innovation Cell to systematically foster the culture of innovation amongst all higher educational institutions (HEIs) in India. The primary mandate of MIC is to encourage and nurture young students to think of new ideas, concepts, and develop prototypes. Successful collaborations with academia, industry and government organizations are fundamental to SiliconTech's research enterprise. Academic partnerships with researchers from multidisciplinary backgrounds aid research in new directions and deepen existing scholarship to advance innovations in science and technology. Students get a chance to work with experts to advance their scientific careers. SiliconTech's four research labs bring together scientists from premier research institutes in the country and industry.

from across the globe to work with faculty, students and young research institute to undertake important research areas. Advanced VLSI Lab, IC Systems Lab, Data Science Lab, Advanced Materials Lab

File Description	Documents
Upload any additional information	No File Upload
Paste link for additional information	No File Upload

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property (IPR), Entrepreneurship and Skill Development during the year

8

File Description	Documents
Report of the events	No File Upload
List of workshops/seminars conducted during the year	View File
Any additional information	No File Upload

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check
Any additional information

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regular PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

02

File Description	Documents
URL to the research page on HEI website	https://silicon.ac.in/home/research-at-silicon
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Upload

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website

46

File Description	Docum
List of research papers by title, author, department, and year of publication	
Any additional information	No

3.4.4 - Number of books and chapters in edited volumes / books published per teacher d

3

File Description	Documents
Upload any additional information	1
Paste link for additional information	

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

32

File Description	Documents
Any additional information	No Fil
Bibliometrics of the publications during the year	No Fil

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science University

3.4.6.1 - h-index of Scopus during the year

0

File Description	Do
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	N
Any additional information	N

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR)

1360000

File Description	
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	
List of consultants and revenue generated by them	
Any additional information	

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project undertaking consultancy during the year

0

File Description
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy
List of training programmes, teachers and staff trained for undertaking consultancy
List of facilities and staff available for undertaking consultancy
Any additional information

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues, development, and the impact thereof during the year

1-SiliconTech's Zeal club, Green club and Photography club jointly conducted a cleanliness drive in Khandagiri and Udayagiri caves in collaboration with Bhumi on 5th November 2022 to clean the roads and cave areas and raise awareness about keeping our environment clean.

2-Chilika Re Jalapari @Swimming Event

The Veterans Club Odisha (VCO) collaborated with SiliconTech to organize a water swimming event named 'Chilika Re Jalapari', in Chilika, Asia's largest brackish water lagoon on 13th November 2022.

3-Young India Challenge

SiliconTech collaborated with the Human Circle, New Delhi to organize the Young India Challenge on 25th and 26th March 2023. Mr. Kamal Seti, Oil Director, WWF.

4-Mega Blood Donation Drive

SiliconTech's Red Ribbon Club collaborated with Akhil Bhartiya Terapi Parishad to participate in the Mega Blood Donation drive, called as Mahotsav by organizing a blood donation camp in our campus on 17th September.

5-Plastic-Free Campus @Awareness Program

The YfS (Youth for Sustainability) Silicon Chapter collaborated with Sports Club and Theatre Club to organize an awareness program on 'Plastic Free Campus' on 28th January 2023. Our students raised various slogans to create awareness. Members of the Theatre Club and YfS chapter presented a drama and the Music Club performed a thematic dance.

6-Dare to be Aware @Awareness Program

The YfS (Youth for Sustainability) Silicon Chapter organized an awareness program entitled 'Dare to be Aware' on 3rd March 2023 to observe the 'National World Wildlife Day'.

File Description	Documents
------------------	-----------

Upload any additional information	No File U
Paste link for additional information	Ni

3.6.2 - Number of awards and recognition received by the Institution, its teachers and staff for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	No F
e-copy of the award letters	No F
Any additional information	No F

3.6.3 - Number of extension and outreach programmes conducted by the institution through Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Awareness, and Gender Sensitization and those organised in collaboration with industry, NGOs)

8

File Description	Documents
Reports of the events organized	View Fi
Any additional information	No File Up

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

549

File Description	Documents
Reports of the events	View File
Any additional information	No File Uplo

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ internship/ on-the-job training/ project work

02

File Description	Documents
Copies of documents highlighting collaboration	Vie
Any additional information	No File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance such as universities, industries, corporate houses, etc. during the year (only functional MoUs will be considered)

8

File Description

e-copies of the MoUs with institution/ industry/ corporate house
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year
Any additional information

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

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

The college has the required infrastructure and learning resources like laboratory, and computer lab, library with reading room, lecture hall, and auditorium. The campus is Wi-Fi enabled with 24/7 internet facilities for students and staff. The College also updates the infrastructure and learning resources facilities with the changing requirements. The College has ICT where the provision of Multimedia learning, Wi-Fi connectivity and internet is given. The College has well equipped laboratories, each of them have art laboratory instruments and facilities. These labs are also utilized to do their practical and projects. Specialized Facilities and equipment for teaching, learning and research: To promote teaching and learning facilities like LCD projectors and also audio visual equipment through remote workshops can be conducted. The college is having a digital library internet which is being effectively used by the students for their research activity. There are some modern labs available like Makers Space, IoT for the students to do their projects. A modern VLSI Lab has come up in the recent developments in that field.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	No Link Provided

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games including gymnasium, yoga centre, auditorium etc.)

The College is proactive in providing facilities for students to participate in cultural activities, sports and games in various ways. Sports & Cultural activities are supported by a team of faculty members and full time sports officer in charge of cultural, sports and extracurricular activities of the college. Gymnasium has well equipped gymnasium for boys & girls with all modern equipment for indoor and outdoor Games: A spacious play ground is available for outdoor games like Cricket, Volleyball, Basketball, Badminton, etc with floodlights. Indoor Games include for the indoor games like Badminton, Table Tennis, Chess, Carrom, etc are provided to students in the college campus. A large number of sports activities are organized in the college aiding the students to display their talent in sports. The College is having a modern, well equipped auditorium for organising conferences, seminars and various cultural programs. Every year college organizes a Cultural Function and Annual Cultural Function, where students participate in various activities. Zygon and Noiesis are two important annual events along with various events organised by the various committees like the Music Club, Meta Club, etc.

File Description	Documents
Geotagged pictures	View
Upload any additional information	No File U
Paste link for additional information	Ni

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

35

File Description	Documents
Upload any additional information	N
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	N

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (I

880.79

File Description	Documents
Upload audited utilization statements	No Fi
Details of Expenditure, excluding salary, during the years	V
Any additional information	No Fi

4.2 - Library as a Learning Resource

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

A library management system is used to maintain library records. It tracks records of the number of books in the library, how many books are issued, how many books have been returned or renewed or late fine charges, etc. We can, in an instant, issue/reissue books quickly, and manage all the data efficiently and orderly using this system. The purpose of a library management system is to provide instant and accurate data regarding any type of book, thereby saving time and effort. Completely automated library management systems make it easy to refer to books at anytime of the day to night, as well as make reservations online. Multiple copies ensure that resources are easily available for all users. The Library also has a separate Internet section consisting of computer networked terminals for providing recent and most comprehensive access to other e-reference resources to the faculty, students and staff in a virtual Internet environment. The Central library has automated all its routine functions through library software.

File Description	Documents
Upload any additional information	No File U
Paste link for additional information	Ni

4.2.2 - Institution has access to the following: e-journals e-Shodh Sindhu Shodhganga Membership e-books Databases Remote access to e-resources

B. Any 3 of the above

File Description	Documents
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Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	
Upload any additional information	N

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals (INR in lakhs)

17

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

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

425

File Description	Documents
Upload details of library usage by teachers and students	No File U
Any additional information	No File U

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for IT facilities

Hardware: 8 High Capacity Servers in air-conditioned Central Server Room, 11 Terabyte Network Access Storage (NAS) 11 Computer Labs with 418 Computers, ~800 Computers in Campus, 50+ Printers, 6 Scanners **Software:** Windows 7/10, MS Office Suite, MS Security, Linux (Ubuntu, Fedora) CAD, SCADA, PSCAD, LabView, English Lab+, Oracle 9i, MATLAB, PSIM, NETSIM, Graphics, PSPICE, PLC Programming, RSLogix, Twido Suite, IBM Rational **Internet:** 500 Mbps Internet Connectivity with redundancy & Cyberoam (Control) 4G Wi-Fi Installation in progress by Reliance JIO Dedicated 1 in Central Library, Wi-Fi in Academic Areas **Power Backup:** 176 kVA UPS Power Supply for Computers & other equipment Backup with 4 silent DGs + 30 kW Roof-top Solar Power Plant Smart classrooms with ICT facilities **Software tools and e-resources** Legal Application S/W :45 Legal System One Remote Centre for online programs One studio for video recording

File Description	Documents
Upload any additional information	No File U
Paste link for additional information	Ni

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
2757	780

File Description	Documents
Upload any additional information	No File Upload

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. ≥ 50 Mbps
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File Description	Documents
Details of bandwidth available in the Institution	No File Upload
Upload any additional information	No File Upload

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	C. Any two of the above
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File Description	Documents
Upload any additional information	No File Upload
Paste link for additional information	
List of facilities for e-content development (Data Template)	No File Upload

4.4 - Maintenance of Campus Infrastructure
--

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities component, during the year (INR in lakhs)
1156.24

File Description	Documents
Audited statements of accounts	No File Upload
Upload any additional information	No File Upload

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, support facilities - classrooms, laboratory, library, sports complex, computers, etc.
<p>The infrastructure of an institution is the bedrock of all its activities. We take great pride in the infrastructure we have and strive to preserve it for the benefit of current and future stakeholders in a responsible and sustainable manner. We have a large area with ample seating capacity and providing plenty of natural light. In our library, our library houses an impressive collection of books and journals. Our library is fully automated and uses Integrated Library Management System for easy access, bar coded inventory, online catalogue and an online reservation system for student use and allow for access of e-resources from anywhere within the campus. Some material being available for access from outside the campus as well. Our library is effectively managed by the librarian and his staff. High end multi-processor systems, are available for college fraternity for research and development. Entire college premises is Wi-Fi enabled and each and every student has access to internet.</p>

has access to the same. Each lab is managed by a team comprising of a charge, one technical assistant and a lab attendant. A Systems and Network Administrator looks after the up keep of the entire network. All classrooms are furnished and ICT equipped for effective teaching and learning. The college has a team of gardeners to look after the upkeep of the college grounds.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	No File Uploaded

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

226

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	
Upload any additional information	No File Uploaded

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and government agencies during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Institutional data in prescribed format	No File Uploaded

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	
Details of capability development and schemes	View Details
Any additional information	No File Uploaded

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and counselling offered by the institution during the year

2394

File Description

Any additional information	
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	
5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	A. All of the above
File Description	
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	
Details of student grievances including sexual harassment and ragging cases	
Upload any additional information	
5.2 - Student Progression	
5.2.1 - Number of outgoing students who got placement during the year	
485	
File Description	Documents
Self-attested list of students placed	View
Upload any additional information	No File U
5.2.2 - Number of outgoing students progressing to higher education	
01	
File Description	Documents
Upload supporting data for students/alumni	No Fil
Details of students who went for higher education	Vi
Any additional information	No Fil
5.2.3 - Number of students qualifying in state/ national/ international level examination	
5.2.3.1 - Number of students who qualified in state/ national/ international examination JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government exam the year	
23	
File Description	Documents

Upload supporting data for students/alumni	No File
Any additional information	No File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural university / state /national / international events (award for a team event should be counted for the year)

0

File Description	Documents
e-copies of award letters and certificates	No File
Any additional information	No File

5.3.2 - Presence of an active Student Council and representation of students in academic and non-academic bodies/committees of the institution

Silicon Student Council (SSC) is the student body representing student interests and engagement in SiliconTech. Established in 2005, the SSC is active in building student leadership, fostering community and belonging, and positioning SiliconTech as a leader in technical education. The Student Council engages with their peers, faculty, and staff to facilitate meaningful participation in the various activities. Ensuring students' involvement in academic, professional, and personal development activities. Liaise with the faculty, administrative staff, and community to represent student interests. Assist in the execution of academic and extracurricular activities in partnership with student clubs, departments, and committees. Resolving student concerns by harnessing the ideas and suggestions of students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	No Link

5.3.3 - Number of sports and cultural events / competitions organised by the institution

11

File Description	Documents
Report of the event	No File
List of sports and cultural events / competitions organised per year	
Upload any additional information	No File

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The Silicon Alumni Association intends to create and foster an intimate relationship with all its graduates and the Institute. Formed with the notion to bring together graduates and postgraduates from their professional set-up to revisit their alma mater, Silicon Alumni Association pledges to renew its journey with its graduates.

keep the family progressing together towards a larger community, the Worldwide. Our first Alumni Meet was held in Mumbai on the 25th of May. 13th Alumni Meet 2021 was conducted offline at the Institute on 18th May. A total of about 250 alumni attended the event. Many of the alumni met visited the campus after a long time, took interest in the recent developments, appreciated the development in the infrastructure and achievements with the Autonomy and NIRF rank. A small cultural program was organized in the evening followed by a lunch.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	No Link Provided

5.4.2 - Alumni's financial contribution during the year

E. <2 Lakhs

File Description	Documents
Upload any additional information	No File Uploaded

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the mission of the Institution

The Vision and Mission are created by taking into account various factors, critical elements of the teaching-learning system of the institution, scope of the courses. Suggestions are collected from the stakeholders: Students, Alumni, and Employers. The empowered team of the college includes Principal, FIC and FCoF of different committees, Teaching-staff, IQAC committee, non-teaching and supporting staff, student's union, student representative (C.R.), stakeholders, alumni. The principal monitors the mechanism regarding administration and academic process. It also ensures proper functioning of the policies, rules and action-plans of the college. There are many committees that support the vision and mission of the college. For example, these are: cell, career and counselling cell, library and sports committee, cultural committee, internal examination committee, anti-ragging committee, college magazine committee, Statutory committee, disciplinary committee, scholar grievance redressal committee, etc. All the committees take their respective plans and activities and successfully tackle these responsibilities during the academic session. For academic performance meetings with HoD's and faculty departments are done. Also, the teaching progress is checked monthly by the Academics. The perspective plans are implemented by the principal with finance headed by him/her self. It deals with the finance received for the various amount received from other sources for overall development and maintenance of the institute.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	No Link Provided

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

Governance The system of governance ensures that the authority, responsibilities and relationships among and between the Governing Body, Executive Council, Committee, Other Committees/Councils, administrators, faculty and employees are as described in the rules. The Governing Body is the Principal body of the Institution and has the following powers, namely:- 1. To provide general supervision and superintendence and policy directions and to control functioning of the Institution by using all such powers as are provided by the statutes, regulations and rules there-under; 2. To review the decisions of other authorities of the Institution in case they are not in conformity with the provisions of the statutes, rules and rules made there under; 3. To approve the budget and annual report of the Institution; 4. To lay down the policies to be pursued by the Institution; 5. To appoint and remove Statutory Auditors of the Institution; 6. To review decisions of the authorities of the Institution if they are not in conformity with the provisions of the Statutes or the Rules; 7. To make new or additional Statutes or Rules in conformity with the earlier Statutes and Rules; 8. To approve proposals for submission to the Government and other competent authority.

File Description	Document
Upload strategic plan and deployment documents on the website	No File
Upload any additional information	No File
Paste link for additional Information	

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

Development Plan is a quality initiative which concentrates on the development of the departments in terms of infrastructure, faculty strength, faculty development, students' development and student achievement. The plan is formulated by the HODs of all departments in consultation with their faculty members and is then discussed in the HODs meeting with the Principal, followed by the management. The salient features of the strategic plan are: Development of a Multidisciplinary innovation ecosystem, leading to incubation at institution level; Project based learning for students. Increase number of Patent filing Participate in International Conferences Organize Workshops/Training for Faculty/ Organizing Conferences Introduce Certificate/Value Added Courses Industrial and Field Visits Promote industry interaction Conducting in-house Hackathons from which selected projects are presented at national level competitions. Page

File Description	Documents
Strategic Plan and deployment documents on the website	No File
Paste link for additional information	
Upload any additional information	No File

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the administrative set-up, appointment and service rules, procedures, etc.

The entire functioning of the Institute is divided into three areas, namely, teaching, research and non-teaching, for administrative purposes. Accordingly, the

smooth administration of the Institution following authorities help P
out the responsibilities 1. Dean (Academics) 2. Dean (Research) 3.
Dean (Administration) 4. Each department shall have a Head who shall b
from among Its members, on the recommendation of the Director. 5. The
departmental Heads shall be responsible to the Director for the proper
their respective Departments. The system of governance makes provision
consideration of faculty, student, and employee views and judgments in
In which these constituencies have a direct and reasonable Interest. 7
the college has the following support Committees/Cells to facilitate s
functioning of the college: 1. (IQAC) 2. Cell for Statutory Bodies 3.
Committee 4. Grievance Committee 5. Committee Against Sexual Harassme
ragging committee and Squad 8. Examination Cell 9. Establishment Cell
Cell 11. Cell for ERP Academics 12. Staff Welfare Cell 13. Residence C
Council 15. Sports & Culture Cell 16. Accounts Cell 17. Purchase Cell
Cell 19. Publication Cell 20. Industry Interface Cell

File Description	Documents
Paste link to Organogram on the institution webpage	
Upload any additional information	No Fi
Paste link for additional Information	

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	Document
ERP (Enterprise Resource Planning) Document	
Screen shots of user interfaces	
Details of implementation of e-governance in areas of operation	
Any additional information	No F

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and career development/ progression

The Institute offers/provides lucrative welfare schemes to all the employees to ensure and increase their work efficiency. Provident Fund: ESI facilities: Group Saving Linked Insurance: Medical Group Insurance: Reimbursement of Expenses: Paid Leave: Research allowances: Transportation Fee Concessions: Accommodation Fee Waiver: Own your vehicle scheme: Student Support Fund: Facility: Skill development courses are organized for non-teaching staff to enhance their skills in work environment. Automation of attendance and leave system. All the faculty members who upgrade their research work through publications during the academic year are honored by management and incentive research incentive scheme every year. The management also extends financial assistance to the needy students for pursuing higher education in our college per the requirement. Motivation through counselling is also available to staff members to create a healthy working environment. This not only improves the work life balance of the employee, it also helps us in increasing the productivity and allows our staff to work effectively with complete satisfaction.

File Description	Documents
Upload any additional information	No File U
Paste link for additional information	Ni

6.3.2 - Number of teachers provided with financial support to attend conferences / world payment of membership fee of professional bodies during the year

15

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

6.3.3 - Number of professional development / administrative training programmes organized by Institution for its teaching and non-teaching staff during the year

05

File Description	D
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	
Upload any additional information	

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Short-Term Course, etc.)

75

File Description	Do
Summary of the IQAC report	
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	
Upload any additional information	N

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institution has established a mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. Internal audit is conducted half yearly by the internal financial committee of the institution. The committee thoroughly verifies the income and expenditure and the compliance report of internal audit is submitted to the management of the institution through principal. External audit is conducted once in every year by an external agency. The mechanisms used to monitor effective and efficient utilization of financial resources are as below: Before the commencement of every financial year, the principal submits a proposal on budget allocation, by considering the requirements made by the heads of all the departments, to the management. College budget is approved by the management.

recurring expenses such as salary, electricity, internet charges, maintenance cost, stationery, other consumable charges etc., and non-recurring expenses such as equipment purchases, furniture and other development expenses. The expenses are monitored by the accounts department as per the budget allocated by the management. All vouchers are audited by an internal financial committee on half-yearly basis. Accounts of the college are audited by chartered accountant regularly as per the rules.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	No Link Provided

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	
Any additional information	

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Silicon Institute of Technology is a self-financed institution, where the funds are generated through the fees paid by the students. Deficit is managed by borrowing from the banks. Additional funding is obtained from faculty membership grants, research proposals and consultancy works. These funds are utilized for the research and laboratory development. The institute has a well-defined mechanism for the effective and efficient utilization of available financial resources for the development of the academic processes and infrastructure development. Institutional budget is prepared by Accounts department every year taking into consideration of recurring and non-recurring expenditures. According to the administrative and academic heads are requested to submit the budget for the subsequent financial year. Along with this all coordinators of different departments viz., R&D Cell, Exam Cell, T&P Cell, etc. are instructed to submit their budgets to the Account office. All the major financial decisions are taken by the Director and Accounts department with Management of college. As and when requirements arise it is given after sanction received from the designated authorities.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	No Link Provided

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the previous year.

regard to quality (in case of the First Cycle): Incremental improvements made during the pre-
regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

The IQAC policy guides us to offer the best academic services by developing highly qualified and motivated professors, providing state-of-the-art and excellent library facilities, and a pedagogy focused on innovation and entrepreneurship. IQAC aims to enhance quality parameters and implement interdisciplinary research culture to offer the best academic services. It is a nodal agency for all quality related activities of the institute. It follows the following activities to ensure quality: Managing a feedback system from stakeholders, Development and application of quality benchmark for various academic and administrative activities of the institute, Assessment of quality enhancement parameters, Conducting regular academic audit, Encouraging research-centred learning. Silicon's IQAC strives to improve the academic services through various plans. Automation of academic and administrative processes through ERI, Conversion of knowledge into action for sustaining quality of education, Establishment of a quality culture to identify innovations at all levels, Increasing collaboration with industry organizations.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	No Link Provided

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of learning outcomes at periodic intervals through its IQAC as per norms

Effective Leadership Practice Decentralization and Participative Management Perspective/Strategic Plan Organizational Structure Administrative Structure Effectiveness of various bodies/ Cells/Committees Financial Management Professional Development Co-curricular and Extra-curricular Activities Academic Administrative Audit (AAA) Participation in various Accreditation Rankings Setting quality benchmarks with consistent work Creating parallel academic as well as non-academic learning goals Creating a student-centric learning environment Enabling faculty to efficiently use edTech tools in education Considering the feedback of students, faculty & parents in developing practices Organizing various workshops & seminars for the quality education environment Documenting all the activities in chronological order & keeping track of improvements Preparing & submitting one of the most important- Annual Assurance Report (AQR) as per the instructions of the NAAC.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	No Link Provided

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
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Paste the web link of annual reports of the Institution	https://silicon.ac/home/policies
Upload e-copies of accreditations and certification	No File Upload
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Upload

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

Gender Sensitization is the need of the hour to assist the younger generation in building an attitude of acceptance of the differences and breaking down stereotypes for a better society. SAGE- 'W' (Social Awareness and Gender Women) cell at Silicon was formed under the guidelines of AICTE in 2018. All activities will be directed towards Promoting, Practicing and Propagating gender state in our society. The cell conducts awareness talks on various topics like gender stereotypes, division of labour, discrimination etc. Annual events like speech, slogan writing and paintings are conducted to express the emotions in the form of art and communicate their thoughts through experiences. An event for the recognition of Women Achiever is conducted every year. The cell aims to extend awareness on Gender Sensitization in the form of a play (Nukkad Natak) on Women's Day. Apart from this, the Institute also has an Internal Complaints Committee for Gender Sensitization, Prevention and Prohibition of Sexual Harassment of Women Employees and students and redressal of grievances.. A Gender Policy is conducted by the ICC which helps to formulate policies and better guidelines for gender equity.

File Description	Documents
Upload any additional information	No File Upload
Paste link for additional Information	No File Upload

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

B. Any 3 of the above

File Description	Documents
Geotagged Photographs	View File
Any other relevant information	No File Upload

7.1.3 - Describe the facilities in the institution for the management of the following types of non-degradable waste (within a maximum of 200 words)

Waste disposal includes the activities and actions required to manage waste from its inception to its final disposal. Waste produced is solid, liquid, or gas, and different methods of disposal and management. Solid waste management: waste, paper and plastic are the types of solid waste produced in the institution. Waste management in the following ways-
 · Reuse of one side printed paper

internal communication. · Two types of Waste bins are provided at can biodegradable and nonbiodegradable waste. · 1. No of dustbin: - 290 2 disposal quantity 4500 KG approx. per Month Liquid waste management : Sewage Treatment Plant to recycle the waste water. This plant treats and makes it fit for use in washrooms, cleaning purposes and watering trees. The recycled water is used to water plants in the institute ga proper mechanism. The treated water is filled in tanks for use in cle and washrooms. Biomedical waste management- There is no bio medical v E waste management- Currently there a vendor for this.

File Description	Doc
Relevant documents like agreements/MoUs with Government and other approved agencies	N
Geotagged photographs of the facilities	N
Any other relevant information	N

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

B. Any 3 of the above

File Description	Docu
Geotagged photographs / videos of the facilities	
Any other relevant information	

7.1.5 - Green campus initiatives include

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

1. Restricted entry of automobiles
2. Use of bicycles/ Battery-powered vehicles
3. Pedestrian-friendly pathways
4. Ban on use of plastic
5. Landscaping

C. Any 2 of the above

File Description	Documen
Geotagged photos / videos of the facilities	
Various policy documents / decisions circulated for implementation	No
Any other relevant documents	No

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

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

1. Green audit
2. Energy audit
3. Environment audit

A. Any 4 or all of the abc

4. Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	
File Description	Document
Reports on environment and energy audits submitted by the auditing agency	
Certification by the auditing agency	
Certificates of the awards received	No
Any other relevant information	No

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	C. Any 2 of the above
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File Description	Document
Geotagged photographs / videos of facilities	
Policy documents and brochures on the support to be provided	No F
Details of the software procured for providing assistance	No F
Any other relevant information	No F

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. harmony towards cultural, regional, linguistic, communal, socio-economic and other diversity (maximum of 200 words).

The institution believes in equality of all cultures and traditions and from the fact that students belonging to different caste, religion, and community are studying without any discrimination. Though the institution has diverse cultural background and different linguistic, we do not have any inter-cultural, regional, linguistic, communal socio economic and other diversity. The institution organizes two days Youth and Cultural festival by the YFSS where all college participate in various programmes related to social issues.

File Description
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations and responsibilities of citizens:

Silicon takes pride in the fact that apart from preparing a sound academic foundation of the student community; the college constantly works upon them as better citizens of the country. In this regard, the institute,

imparting technical education, inculcates a feeling of oneness among the community through various practices and programs. Various faculties participate in the practice of organizing activities that not only initiate but also encourage the students to adopt various practices that promote the "Unity in Diversity" in the motherland.

File Description	D
Details of activities that inculcate values necessary to transform students into responsible citizens	
Any other relevant information	

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization 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 Annual awareness programmes on the Code of Conduct are organized

B. Any 3 of the above

File Description
Code of Ethics - policy document
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims
Any other relevant information

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

International Youth Day (IYD) gives an opportunity to celebrate and amplify peoples' voices, actions and initiatives, as well as their meaningful and equitable engagement. Silicon celebrates the Independence Day every year by hoisting the flag and delivers speech highlighting about the significance of this memorable day to the students and staff. Few Directors, Heads and AO address the students along with Principal. Students of all departments organize programmes to facilitate faculty members and conduct few events. Department of EEE organizes various programs on National Energy Conservation Day like paper presentation and arranging Guest lectures by eminent personalities in this particular domain. Silicon encourages yoga activities by keeping Yoga as a compulsory course for all students and Sports Department organizes a small workshop on International Yoga Day and its significance to students and Faculty Members. Club organises various student including plantation drive and Cleanliness Drive activities on the World Environment Day. SAGE-W Club organises activities on the eve of World Women's Day.

File Description	Docu
Annual report of the celebrations and commemorative events for during the year	
Geotagged photographs of some of the events	

Any other relevant information	NC
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7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the format of NAAC

Over a period of 20 years, Silicon has evolved its set of best practices that have contributed to its emergence as a centre of excellence. Some of these practices include: • Democratic and decentralized governance • Secular campus devoid of religious bias • Orientation program for newly appointed faculty members • Regular feedback from students on the performance of faculty members • Dedicated Halls with closed circuit cameras • Quality Circle meetings for improvement of academic, social and environmental issues • Orientation program for parents meet every year • Training of students for placement examination and interview • Yoga as a compulsory subject for all students • Special classes for academically weak students • Peer teaching in different subjects by 1st year students • Data Management System on ERP to send lecture notes and assignments to students • In-house projects under the guidance of faculty members • Annual Sports and Tech Fest for all round development of the students • Students' Council to manage students' affairs, their betterment, and also social causes • Award of the Best Student of the Year Award • Dedicated in-house counseling cell for mental health wellness

File Description	Document
Best practices in the Institutional website	
Any other relevant information	

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (maximum of 200 words)

SiliconTech established the Entrepreneurship Development Cell (EDC) to encourage and promote entrepreneurship among the students. Financial support from the All India Council for Technical Education (AICTE) helped set up the Department of Science & Technology (DST), Government of India helped organize various activities.

The ED Cell primarily aims to train and motivate students to start businesses and provides an enabling environment for entrepreneurial innovation, creating opportunities for self-employment through formal and non-formal programs. It encourages students to have an intrapreneurial spirit and mindset in their future careers.

SiliconTech is placed under Band 151-300 in the category of 'Private' in the NIRF Rankings 2023 for 'Innovation' by the Ministry of Education, Government of India. The NIRF (National Institutional Ranking Framework) for 'Innovation' was previously known as the ARIIA (Atal Ranking of Institutions on Innovation Achievement).

SiliconTech's ED Cell offers expertise, networks and resources for aspiring entrepreneurs to build viable business ventures. Incubatees benefit from a dedicated workspace, mentoring, networks, training and funding.

File Description	Document
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Appropriate link in the institutional website	
Any other relevant information	

7.3.2 - Plan of action for the next academic year

1- Work towards achieving the institute a University status

2-To create oppoturnity for entrepreneurs and incubators to be a pa
institute.

3- To open more UG /PG courses in emerging areas.