Yearly Status Report - 2019-2020

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 own campus	**Yes**
Phone no/Alternate Phone no.	**06742554123**
Mobile no.	**9051419777**
Registered Email	**director@silicon.ac.in**
Alternate Email	**principal@silicon.ac.in**
Address	**Silicon Hills, Patia**
City/Town	**Bhubaneswar**
State/UT	**Orissa**
Pincode	**751024**
2. Institutional Status	

Autonomous Status (Provide date of Conformant of Autonomous Status)	**24-Aug-2018**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr Siba Sankar Nayak**
Phone no/Alternate Phone no.	**06742554123**
Mobile no.	**9861930033**
Registered Email	**snayak@silicon.ac.in**
Alternate Email	**drsiba1998@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://silicon.ac.in/wp-content/uploads/2022/04/2018-19-AQAR.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://silicon.ac.in/wp-content/uploads/2022/04/2018-19-Academic-Year.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.04**	**2014**	**10-Dec-2014**	**09-Dec-2019**
1	**A**	**3.04**	**2018**	**04-Dec-2018**	**31-Dec-2023**

6. Date of Establishment of IQAC	**27-Jan-2012**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Leadership & Conflict	**06-Nov-2019**	**52**

management	02	
Importance of Accreditation	19-Feb-2020 01	62
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8. Provide the list of Special Status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

Quick change over to online mode of teaching and learning during the start of pandemic. Preparation of study material including lab manuals and videos for students. Upgradation of ICT based class rooms for hybrid mode of teaching learning in future.

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

Plan of Action	Achivements/Outcomes
Quick change over to online mode of teaching	more improvement in TeachingLearning process
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Executive council	**18-Feb-2020**

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**No**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2020**
Date of Submission	**03-Feb-2020**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Activities related to Academics, HR Finance are properly planned and executed through our own ERP.Strategic Vision Leadership Guidance Collective Responsibility Consensus Oriented Decisions Transparency Accountability ERP(Enterprise resource planning for University / College Automation Software) is a unique and comprehensive automation Software package designed to effectively manage silicon institute at every level. It is a complete suite of applications that empowers us to automate all aspects of Institute management. User can create, manipulate and view relevant data in an efficient and friendly manner and Manage Multiple institute/department from Single Location. The ERP Software is cloud based software . Operational Modules in the ERP: i) Admission Module (From application of students to the institute to SIC number generation) ii) Students profile management(Detail profile of students) iii) Academic Module(Subject registration ,Time Tables, Attendance, Feedback) iv) Exam Module(Exam conduction, Evaluation, Result Publication, Grade sheet Generation) v) Library Management vi) Training Placement vii) Alumni viii) Grievances ix) Finance Management x) Purchase xi) Budget xii) HR Management**

	system xiii) Hostel xiv) Canteen xv) Transport Management

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

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

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	UG	EEE, ECE, CSE,EIE	01/08/2020
Mtech	PG	EEE,CSE, ECE	01/08/2020
MCA	PG	Computer Application	01/08/2020
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	UG	01/08/2019	ED,18BS3T20	01/08/2019
BTech	UG	01/08/2019	Skill Lab, 18CSL03	01/08/2019
No file uploaded.				

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	UG	01/08/2019
MCA	PG	01/08/2019

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Skill Developement Lab	01/08/2019	542
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MCA	PG	51

BTech	UG	451

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
Feedback from students Feedback from students (Form) including the following aspects: o Faculty’s Instructional Skill as viewed by students o Rapport and interaction of faculty with students o Feedback offered by the faculty to improve students’ learning abilities or perform better o The way the faculty organizes his/her lectures during coursework such as sequence and connectivity of topics, etc o Standard of the examination conducted by the faculty and the fairness in grading o Any other comments student wishes to offer on the faculty’s performance in teaching. The feedback is sought on line from all the students who have registered for the course. The feedback is analyzed periodically (once in a semester) and the ratings are periodically conveyed back to the faculty to enable the concerned to improve upon. For newly joined faculty, an assessment is made within 3 months of joining. Results are appropriately conveyed to faculty. In light of the above efforts of the Institute, at the time of considering a faculty for promotion, the feedbacks offered by the students over successive semesters and how a faculty has been consistently improving or otherwise is further rated by visualizing mainly student feedback and several other aspects such as the following: Feedback from Others: Feedback collected from other stakeholders such as Parents, Employers, and Alumni helps the organisation to grow. Efforts are made to take necessary steps to overcome the difficulties. The views are sent to IQAC, Executive council and other decision-making bodies for their discussion and suggestions.Feedback from Students: • Most significant role in the program. • There is student and Alumni representation in the Board of Studies • Their feedback is considered for improving curriculum. Feedback from Industry: • Play a vital role in framing the program curriculum. • Getting feedback from the industry people for curriculum and syllabi. • Provide input for designing the program, establishment and PEOs/POs. Feedback from Alumni: • Alumni are a measure of long term success of the program. • Their feedback helps in curriculum design to meet the need in Engineering and Technology. • Recollect their existence during their stay in the institute and advice the department with necessary inputs with respect to students’ career. Feedback from Parents: • Parents are another important stakeholder for the academic Program. The parent constituency contributes by providing valuable suggestions and feedbacks. Feedback from Recruiters/ Employer: • Their inputs will help to enhance the program curriculum such that the program outcomes are attained and it enable the students to face the challenges in recent trends

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	EEE	9	2	1
MCA	MCA	60	64	31
Mtech	ECE	9	2	0
Mtech	CSE	9	5	3
BTech	EIE	60	45	35
BTech	EEE	120	214	119
BTech	ECE	180	200	180
BTech	CSE	180	282	180
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1972	156	123	10	133

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
133	80	75	28	12	18
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Faculty Advisor (Student Mentoring) Shared Vision: To ensure that all students have access to reliable, truthful, valid and one-to-one advising services for academic success over their period of stay in the Institute. Objectives The primary purpose of academic advising is to assist students in their pursuit of life through the selected educational program, leading them to be well-established in life and prepare them as professionals good human beings in the modern society. Apart from monitoring their academic progress and other related activities, it also includes assisting students: (1) to adopt a healthy and success-oriented academic culture (2) to inculcate a disciplined and professional attitude (3) to understand institutional support services available (4) to understand institutional policies/procedures and abide by the rules regulations (5) to focus on academics and take decisions for academic success career planning, and (6) to overcome their personal problems (if any) and render required support and help. The Faculty Advisor Concept : Conceptually, the role of Faculty Advisor is intended to mentor guide the students for achieving academic success for which they have come to the Institute. In this context, faculty members are required to offer their best efforts in line with the Institute's mission to shape the student's career as well as impart essential life-skills. A group of 15 students are assigned to a selected faculty member, termed as the "Faculty Advisor" of that group, and remains in that role till the student successfully completes his/her course from Silicon. A Faculty Advisor is expected to closely interact with each student in the group primarily in a one-to-one manner, establish a trusting relationship with them and be in touch with their parents. In a way, the Faculty Advisor is envisioned to assume the role of a Social Parent, keep track of their day to day

activities (including monitoring, mentoring, and facilitating academic co-curricular progress), extend a helping hand whenever required, and acts as a vital bridge between the parents and the Institute. Furthermore, a Faculty Advisor would also provide necessary motivation, encouragement, moral support, and primary counselling to the students to help them prepare for a successful professional career. Assuming the role of a Social Parent however does not authorize a Faculty Advisor to intentionally or unintentionally invade into their family aspects, religious/cultural values practices, relationships and personal lives in general. However, if anything is of a damaging nature or likely to damage the academic performance of a student as per the observations of the Faculty Advisor, he/she may express concern, discuss personally, advise and sensitize the student and/or bring the same to the knowledge of the parents, if required, depending on the outcomes of the advice.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2128	133	1:16

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
139	139	6	133	64

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
No Data Entered/Not Applicable !!!			
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MCA	MCA	1	04/10/2019	31/10/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
1281	2107	60.79

2.6 – Student Performance and Learning Outcomes

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

https://silicon.ac.in/bbsr-home/b-tech-electronics-and-instrumentation-engineering/https://silicon.ac.in/bbsr-home/b-tech-electrical-and-electronics-engineering/https://silicon.ac.in/bbsr-home/b-tech-electronics-and-communication-engineering/

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BTech	CSE	120	105	87.5
UG	BTech	AEI	56	51	91
UG	BTech	EEE	113	88	77.8
UG	BTech	IT	54	49	90.7
UG	BTech	ECE	183	163	89
PG	MCA	MCA	50	42	84
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2.7 – Student Satisfaction Survey

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

https://silicon.ac.in/wp-content/uploads/2022/05/NAAC-AQAR-SIT-BBSR.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

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

Yes
Name of the teacher getting seed money
Nill
View File

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	D NAYAK	POST DOC	30/09/2019	UNIVERSITY OF TEXAS
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Projects sponsored by the University	365	TEQIP-3	1.8	1.8
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

4

3.3 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Role of IPR	Institution Innovation Cell	19/11/2020
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Performing IIC	Institution Innovation Cell	MoE, GoI	22/10/2020	Self financed College
Best performing Institute	Institution Innovation Cell	MoE, GoI	05/08/2020	Innovation
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
No Data Entered/Not Applicable !!!					
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
CSE	5
EEE	2
ECE	2
EIE	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	BSH	14	0.81
International	CSE	16	1.94
International	EEE	4	1.85
International	ECE	15	1.31
International	EIE	5	2.16
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
EIE	15
EEE	6
ECE	18
CSE	15
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
USER GUIDANCE SYSTEM (P K TRIPATHY, A K TRIPATHY)	Published	20193032117	13/09/2019
ENERGY EFFICIENT MONITORING OF MENTALLY CHALLENGED PEOPLE USING WIRELESS SENSOR NETWORK	Published	202031014831	03/04/2020
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Cr doped ZnO: Investigation of magnetic behaviour through SQUID and ESR Studies	J Das	Physica B: Condensed Matter	2019	2	SIT BBSR	2
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Ultraviolet and Infrared luminescent Au-rich nanostructure growth in SiO2 by	D Dutta	Scientific Reports	2019	213	2	SIT BBSR

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	11	42	48	74
Presented papers	16	32	18	24
Resource persons	4	3	4	2

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
R.P.Panda	Integrated Network Planning and system study for Mega Lift Irrigation project cluster X	L T LIMITED	295000

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

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees

No Data Entered/Not Applicable !!!

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3.6 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
BLOOD DONATION	SIT	5	21
AWARENESS CAMPAIGN ON LITERACY	BMC	12	241

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students

			Benefited
No Data Entered/Not Applicable !!!			
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
SWACHH BHARAT	SIT	AWARENESS	14	178
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
No Data Entered/Not Applicable !!!			
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
No Data Entered/Not Applicable !!!					
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Perfectus VIPs Techno solutin	31/08/2017	conducting Projects	24
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
2006.09	674.95

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Others	Newly Added

Seminar halls with ICT facilities	Newly Added
Laboratories	Existing
Classrooms with LCD facilities	Existing
Classrooms with LCD facilities	Existing
Laboratories	Newly Added
Video Centre	Newly Added

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Silicon ERP	Fully	2.0	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	8841	37222	455	665	9296	37887

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

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

No Data Entered/Not Applicable !!!

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	796	437	59	0	10	45	245	205	0
Added	45	25	10	0	0	10	0	200	0
Total	841	462	69	0	10	55	245	405	0

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

400 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility

No Data Entered/Not Applicable !!!

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
322.12	272.73	2006.09	674.95

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

1. Executive Council The Executive Council advises the Principal on improvements in policies, procedures, and operational aspects of the institution. The primary function of the Executive Council is to establish and maintain cohesiveness of policy and operation through! Institute. The Executive Council acts upon recommendations from other governance committees/councils. Constitution: The Executive Council shall comprise of Principal, all the Deans, Controller of Examination, Senior Professors and Working Trustees. The Executive Council meetings are chaired by the Principal, and meeting agenda items are coorc through the office of the Principal. The Dean (Administration Student Affairs) shall be the ex-offcio Secretary of the Executive Council. Powers and Functions: The Executive Council shall be responsible for improvement of standards of teaching, research, extension collaboration programmes in academic matters. As the executive leadership of the institution, members have the authority to carry out the action items and activities resulting from meetings and other duties assigned by the Principal. The powers and functions are: 1. To define and monitor the Institute’s Goals and Objectives 2. To make recommendations with respect to academic and professional matters. 3. To make recommendation to Governing Body with regard to policies governing the functioning of the Institute and make amendments to the existing ones, if required, from time to time 4. To monitor and evaluate functioning of all committees/divisions/cells. 5. Preparing the Long Term Plan and Annual Plan of the Institute. 6. To make recommendation for approval of the Institute Budget, Annual Report and Action Taken Report to the Governing Body. 7. To make recommendation for establishing new departments, programmes, and new guidelines for admissions 8. To recommend collaborations with other institutions, professional bodies, and organizations 9. To approve the requirement of faculty and employees in relation to the strength of students, and other activities of the Institution 10. To monitor the Research activities of the Institute 11. To advise on fixation of the fee structure, from time to time 12. Any other matter concerning the Institute at large The Executive Council shall meet as often as may be necessary but not less than once every month. 2. Finance Committee The Finance Committee is the Principal Body to provide for financial planning and fiscal discipline in the system. Constitution: The Finance Committee shall consist of the following members a. The Chairperson-Pmcipal of the Institute,. b. SPOC Budget committee c. SPOC Purchase d. External member nominated by the GB from time to time e. Officer in-charge of Finance Accounts of the Institute as ex-officio secretary. Powers and functions: 1. The annual accounts and financial estimates of the Institute shall be placed before the finance committee for consideration and thereafter submitted to the Governing Body together with the comments of the finance committee for approval. 2. The finance committee shall fix limits of the total recurring expenditure and the total non-recurring expenditure of the year based on the income and resources of the Institute. No expenditure shall be incurred by the Institute in excess of the limits so 3. No expenditure other than that provided in the budget shall be incurred by the Institute without the approval of the finance committee. The finance committee shall meet at least twice a year to examine the accounts and to scrutinize proposals for expenditure. 4. Academic Committee Silicon believes

that the Vision and Mission of the Institute can be achieved through active and planned coordination amongst the HODs of all the departments, the Academic Committee performs this role. Constitution: The Academic Committee consist of the Principal, Sr. Professors, Dean (Academics), Dean (Research), Dean (Administration Student Affairs), Department Heads, Controller of Examination, ERP(Academics) and Library in Charge. The Academic Com meetings shall be chaired by the Principal. Dean (Academics) shall be the ex-offcio secretary of the Academic Committee. Powers and functions: The Academic Committee advises for furtherance of the goals and objectives of the Institute. It recommends to Principal for improvement and upgradation of all academic and infrastructure and facility related issues such as: a. To exercise general supervision over the academic work of the Institute and to give direction regarding methods of instructions, evaluation or research or improvements in academic standards. b. To consider matters of academic interest either on its own initiative or at the instance of the Executive Council and to take proper action thereon. c. To look into teaching processes, evaluation, feedback, research and other academic activities. d. To suggest measures for departmental co-ordination e. To make recommendations to the Executive Council on • Measures for improvement of standards of teaching, training and research. • Curricula changes to meet the needs of the professional world • Holding of Conference, Seminars and Workshops • Institution of scholarships, medals, prizes, etc. • Bye-laws covering the academic functioning of the Institute, discipline, residence, admissions, examinations, time table, attendance, etc. f. To consider the recommendations of the sub-committees and to take such action (including making of recommendations to the Executive Council) as the circumstances on each case may require. g. To make periodical review of the activities of the departments/centres and to take appropriate action (including making of recommendations to the Executive Council) with a view to maintaining and improving the standards of instruction. h. To make Manpower Planning and recommend for Teaching and Non Teaching Technical posts i. To review the Faculty Advising and recommend for improvement of the same. j. To review the infrastructure and laboratory requirement and recommend for improvement of the same, k. To recommend and monitor the Load Distribution of Faculty members. I. To recommend policies for Faculty Development Programmes m. To exercise such other powers and perform such other duties as may be conferred or imposed upon it by the rules and bye laws. The Academic Committee shall meet as often as may be necessary but not less than two times during the academic year. Frequency of Meetings and Attendance: 5. Other Administrative Authorities/Bodies: The entire functioning of the Institute is divided into three areas, viz., teaching, research and nonteaching, for administrative purposes. Accordingly, to facilitate smooth administration of the Institution following authorities help Principal carry out the responsibilities 1. Dean (Academics) will co-ordinate between the teaching departments and all activities involving teaching, viz., teaching, examinations, timetable etc. 2. Dean (Research) will co-ordinate all research and research related activities. 3. Dean (Administration) will co-ordinate all other activities. 4. Each department shall have a Head who shall be designated from among Its members, on the recommendation of the Director. 5. The Deans and the departmental Heads shall be responsible to the Director for the proper working of their respective Departments. The system of governance makes provision for the consideration of faculty, student, and employee views and judgments in those matters In which these constituencies have a direct and reasonable Interest. The System’s policies, regulations, and procedures concerning the Institute are clearly defined and equitably administered. In addition to the principal bodies stated earlier, the college has the following support Committees/Cells to facilitate smooth functioning of the college: 1. Internal Quality Assurance Cell (IQAC) 2. Cell for Statutory Bodies 3. Disciplinary Committee 4. Grievance Committee 5. Committee Against Sexual Harassment (CASH) 6. Anti ragging committee 7. Anti ragging Squad 8.

Examination Cell 9. Establishment Cell 10. Library Cell 11. Cell for ERP Academics 12. Staff Welfare Cell 13. Residence Cell 14. Student Council Cell 15. Sports Culture Cell 16. Accounts Cell 17. Purchase Cell 18. Transport Cell 19. Publication Cell 20. Industry Interface Cell The aforesaid Committees / Cells help in decentralised smooth functioning of the Institution.

https://silicon.ac.in/bbsr-home/mandatory-disclosure/

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Silicon Merit Scholarship	29	348000
Financial Support from Other Sources			
a) National	Nill	Nill	Nill
b)International	Nill	Nill	Nill

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
REMEDIAL COACHING	07/11/2019	28	SIT
BRIDGE COURSE	15/11/2019	125	SIT

No file uploaded.

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2019	PRE -PLACEMENT TRAINING	542	542	15	478
2019	GATE COACHING	145	145	25	25

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
12	12	21

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
44	507	464	4	22	11
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	8	B Tech	CSE EEE ECE	IIM, Rhotak, BITS Pillani	MS, MBA
View File					

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

Items	Number of students selected/ qualifying
GATE	25
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Annual Sports meet	Institutional	245
Inter college Meet	Inter College	178
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
No Data Entered/Not Applicable !!!						
No file uploaded.						

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

Charter of Silicon Students' Council OVERVIEW: Silicon Students' Council (SSC) is the student body representing students' interest and engagement in achieving a common goal of becoming a leading center of excellence. It was established in 2005 and has been actively involved itself in building student leadership in pursuit of technical events and humanitarian causes. The council is a representative structure, led by the Secretary General and its eminent office bearers which comprise of Core Team, Secretary Academics and Amenities. OBJECTIVES: SSC supports students in getting them involved in various activities, brainstorming for improved solutions for concerns, involving them in leadership and team activities to learn all aspects of a professional and promote holistic development in students. They assist and facilitate in the

affairs of the Institute, working in partnership with various Clubs, Cells and Committees. SPECIFIC GOALS: To encourage democracy, team work, ideas and innovation, education and leadership COUNCIL FORMATION: The formation of the Council is an annual process of nominations and election from the present student base of the Institution. Selection of the Secretary General, their Core Team, Joint Secretaries and Activity Coordinators are done during the annual process. The tenure of each council is limited to one academic session, after which the term automatically stands concluded. THE ADVISORY COMMITTEE: The Advisory Committee comprises the Director and Dean (estb.) with the overall process being reviewed by Faculty in Charge (FIC). The committee is further assisted by Faculty coordinators and SPOCs of different Clubs, Cells and Committees functional in the Institute. POSTS IN THE COUNCIL: • Secretary General• Core Team Members• Secretary Academics • Secretary Amenities• Joint Secretary Academics • Joint Secretary Amenities• Activity Coordinators The Silicon Students' Council is committed to deliver their responsibility towards the students' interests in the Academics and Co? Curricular Activities. The major activities taken up by the Council are as follows: • Annual Function • Annual Sports • Annual Technical Fest • Blood donation Camp • Green Campus Besides the main events, the Council supports in organizing the events of the other departments including, Academics, Placement, Music Club, Residence Committee, and Admission Office as and when scheduled, through the help of the Activity Coordinators for the respective Department of the Institution

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

• Alumni Network through Silicon Worldwide on Facebook • Annual Alumni Meet in last week of December every year • Alumni Visiting the Campus: – Special Lectures and Tutorials – Interactive Sessions and Workshops – Experience Sharing and Career Advice – Establishing Connections through Alumni • E-newsletter (Silicon Waves) circulated among alumni • Alumni Sponsored Scholarship – under consideration • Separate website for Alumni Network is in progress • Alumni Network is being strengthened furtherThe Silicon Alumni Association intends to create and foster an intimate bond between all its graduates and the Institute. Formed with the notion to bring back our graduates and postgraduates from their professional set-up to revisit their school years, Silicon Alumni Association pledges to renew its journey with its students and keep the family progressing together towards a larger community, the Siliconites Worldwide. Our first Alumni Meet was held in Mumbai on the 25th of March 2006. A proud set of 30 members joined hands to share their views and dreams of thinking big and beyond. Subsequently, an annual event is held every year, to get the Alumni together under one roof and share thoughts, memories, and experiences, from college days to present job-related activities, and take a walk through the proverbial memory lane. Registered in the year 2008 Silicon Alumni Association (SAA) is now a body, keen to take charge as Office Bearers and bring Academics closer to Industry and Research and build a prosperous, humane, and noble family that may contribute to humankind in a larger way! It is also a means by which old connections between Silicon graduates and the Institute may be renewed and bolstered with fresh vigor.

5.4.2 – No. of registered Alumni:

1168

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

200000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Meet once in a year

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

Teaching-Learning Process • Well-planned and pre-defined process for effective teaching-learning process • Academic Committee meeting – 4 times a year • Non-negotiable Academic Calendar for each semester • Academic Planning (ERP) : 3 months before upcoming semester • Academic Process – Implemented in ERP (start to finish) • Class Feedback taken by HODs between 2nd to 4th week of start of teaching • Attendance Course Progress Monitoring by HODs • Faculty Advisor Interaction – once every week • Moderation for maintaining quality of Internal Questions • Internal Exams and Quiz – centralized, conducted by CoE (strict, fair, disciplined) • Project groups guide allocation – completed in 1st month of 6th semester • Emphasis on interdisciplinary research oriented projects • Adherence to Academic Calendar • Maintenance of Course Files • Learning Objectives of the Course and Pre-Requisites • Detailed Lesson Plan, Question Banks, supplementary materials • Attendance and Course Progress Monitoring • Fair timely evaluation, showing answer script to students and discussion • Use of ICT, NPTEL Videos, Notes and Video lectures by faculty members • Encourage class interaction for effective learning experience • Additional / remedial classes for slow learners, Chamber consultancy • Surprise Tests and Assignments, regular viva in Lab by Co-Faculty • Faculty feedback by Students – collected in last week of semester ERP, in corporate terms also known as the Enterprise Resource Planning that comprises a single source of information system for all departments across an organization. ERP is a single database system that makes information and communication easy across various departments of an organization. ERP has covered in-depth functionalities that help to reduce the costs of redundancy by increasing efficiency and productivity throughout the organization. OBJECTIVES: ERP is a facility which interconnects all the disciplines in the institute including academics ,examination, finance, budget, purchase ,store, hostel, canteen,library,sport. SPECIFIC GOALS: • To run the academic and non-academic activities smoothly with minimum issues. • In the future to incorporate a learning management system in the ERP. • To make some structural changes for adopting more flexibility in the operations. POLICY/RULES/GUIDELINES: (The policies/rules/guidelines of the Admin Node including those related to its operational aspects)

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Examination and Evaluation	• Dedicated examination halls with CCTV surveillance • Fair, strict, and streamlined Examination • Transparent and continuous evaluation • ERP enabled question setting, Quiz, Exam Scheduling and Processing • Online evaluation, mark submission and result processing • Most trusted examination centre of BPUT • Facilities for National level

	competitive examinations (both online and offline) online evaluation through silicon erp.
Library, ICT and Physical Infrastructure / Instrumentation	• Established on 18.113 Acres of land in lush green tranquil environment • Excellent Library facility (15,300 sqft) with reading rooms (318 seats) • 37,538 volumes in 8,837 titles, NPTEL Videos, 75 Periodicals (37 Technical, 42 Non-Technical) • 24,973 books in Book Bank (380 titles), E-Journals : 275 (ScienceDirect), 183 (IEEE), and 452 (Springer) • Reprographic Facilities, Laptop Bays, Internet Center within Library premises • 8 dedicated Examination Halls (100 seats each) with CCTV coverage • ICT enabled Classrooms and Laboratories with LCD/LED Projectors • 11 Computer Labs with 418 Computers (~800 PCs in campus), 8 Servers, 28 TB NAS • 7 Electrical Labs, 9 Electronics Labs with necessary equipment, computers, licensed s/w • 120 mbps Internet Bandwidth, Wi-Fi availability in academic areas • Power backup with 3 silent generators 178 kVA UPS backup • In-campus Hostel Facility for 900 Boys and 600 Girls (Residence capacity: 61.3) • Adequate facility for indoor and outdoor games, permanent Instructors for Sports and Yoga • Dedicated 7 number of examination halls with CCTV • Each exam halls have attached toilets. • Dedicated evaluation halls for University evaluation • Language labs with soft skill development tools. • Institute is equipped with internet and e-learning systems • Individual faculty chambers with internet connectivity • Seminar halls with ICT • Open Air Theatre, an in-house documentation centre • Guest House facility inside campus • Provision of purified drinking water in each floor. • Transport facility for students, faculty members and staff • Separate kitchen and dining hall facility for Vegetarian students • Cafeteria for tea/snacks, juices, indian/chinese dishes, fast food Cha-cTea outlet inside the campus • Multifunctional Auditorium (350 seats) with 4K Projection system and Satellite streaming provision • Air-conditioned dining and annex space for conference poster presentation • Roof-top Solar Power Plant and LED lighting in campus

	• Lecture Theater (154 seats) : 1 complete and 3 under construction • Sky-Lab: Wi-Fi zone with fountain and music for discussion and group study • Dispensary with visiting Specialist and 24x7 ambulance facility • Counseling Cell with qualified and trained counseling psychologist • Ample parking space for Faculty members, staff, and students, ATM facility
Research and Development	• Faculty members are provided academic and financial support to pursue research and research projects. • The research facilities are strengthened by the Research Advisory Committee. The faculties are encouraged to participate in conferences and to present papers. • Adequate budgetary provision is made for research activities. • Students of PG programme are assigned research and project work. • Consultancy work from government, public sector private sector are undertaken. • The institution organizes various technical and specialized seminars. • The student subject committees also organize seminars and talks on subject areas with an aim to create a research culture. • The College has made collaboration with Infosys, Wipro in the field of Information Technology. Attempts are being made to have collaboration with local Industries.
Admission of Students	Admission process is transparent and is made known to all through institution prospectus, Institution website, as well as advertisement in regional / national dailies. • The institution adheres to the reservation policies of the State Government and University rules and regulations ensuring equity and access. • Admissions of students to Silicon Institute of Technology are made through central counselling by Government of Odisha on the basis of merit through two entrance examinations i.e. Odisha Joint Entrance Examination and All India Engineering Entrance Examination. Government of Odisha and the Joint Entrance Examination Committee ensure wide publicity to the admission and entrance procedure through both national and regional newspapers, television and its own website. Also, the brochure published

	by JEE Committee gives publicity to the detailed procedure for admission. Silicon Institute of Technology gives publicity to the admission notification as well as procedure through its own website i.e. www.silicon.ac.in as well as through its own admissions committee for the benefit of prospective students. • The institution conducts Career Counselling for aspiring students' at all important towns and cities of the State and at major urban cities in the nearby States for pursuing a professional career in Engineering / MCA. • The top 10 of the students seek admission during the counselling. For the last five years, the college has the unique distinction of being the first private affiliated college to fill up the seats and come out of the counselling process. • Admission percentage for UG programmes is the highest in the State amongst the private affiliated colleges. • The institution has attracted students from other states and it adheres to the reservation polices of the Government and university rules and regulations ensuring
Teaching and Learning	• Well-planned and pre-defined process for effective teaching-learning process • Academic Committee meeting – 4 times a year • Non-negotiable Academic Calendar for each semester • Academic Planning (ERP) : 3 months before upcoming semester • Academic Process – Implemented in ERP (start to finish) • Class Feedback taken by HODs between 2nd to 4th week of start of teaching • Attendance Course Progress Monitoring by HODs • Faculty Advisor Interaction – once every week • Moderation for maintaining quality of Internal Questions • Internal Exams and Quiz – centralized, conducted by CoE (strict, fair, disciplined) • Project groups guide allocation – completed in 1st month of 6th semester • Emphasis on interdisciplinary research oriented projects • Adherence to Academic Calendar • Maintenance of Course Files • Learning Objectives of the Course and Pre-Requisites • Course Policies and Procedures, BPUT Syllabus, Evaluation Criteria • Detailed Lesson Plan, Question Banks, supplementary materials • Attendance and Course Progress Monitoring • Fair timely evaluation,

showing answer script to students and discussion • Use of ICT, NPTEL Videos, Notes and Video lectures by faculty members • Encourage class interaction for effective learning experience • Additional / remedial classes for slow learners, Chamber consultancy • Surprise Tests and Assignments, regular viva in Lab by Co-Faculty • Faculty feedback by Students – collected in last week of semester • Well-planned and pre-defined process for effective teaching-learning process • Academic Committee meeting – 4 times a year • Non-negotiable Academic Calendar for each semester • Academic Planning (ERP) : 3 months before upcoming semester • Academic Process – Implemented in ERP (start to finish) • Class Feedback taken by HODs between 2nd to 4th week of start of teaching • Attendance Course Progress Monitoring by HODs • Faculty Advisor Interaction – once every week • Moderation for maintaining quality of Internal Questions • Internal Exams and Quiz – centralized, conducted by CoE (strict, fair, disciplined) • Project groups guide allocation – completed in 1st month of 6th semester • Emphasis on interdisciplinary research oriented projects • Adherence to Academic Calendar • Maintenance of Course Files • Learning Objectives of the Course and Pre-Requisites • Course Policies and Procedures, BPUT Syllabus, Evaluation Criteria • Detailed Lesson Plan, Question Banks, supplementary materials • Attendance and Course Progress Monitoring • Fair timely evaluation, showing answer script to students and discussion • Use of ICT, NPTEL Videos, Notes and Video lectures by faculty members • Encourage class interaction for effective learning experience • Additional / remedial classes for slow learners, Chamber consultancy • Surprise Tests and Assignments, regular viva in Lab by Co-Faculty • Faculty feedback by Students – collected in last week of semester • Well-planned and pre-defined process for effective teaching-learning process • Academic Committee meeting – 4 times a year • Non-negotiable Academic Calendar for each semester • Academic Planning (ERP) : 3 months before upcoming semester • Academic Process – Implemented in ERP

	(start to finish) • Class Feedback taken by HODs between 2nd to 4th week of start of teaching • Attendance Course Progress Monitoring by HODs • Faculty Advisor Interaction – once every week • Moderation for maintaining quality of Internal Questions • Internal Exams and Quiz – centralized, conducted by CoE (strict, fair, disciplined) • Project groups guide allocation – completed in 1st month of 6th semester • Emphasis on interdisciplinary research oriented projects • Adherence to Academic Calendar • Maintenance of Course Files • Learning Objectives of the Course and Pre-Requisites • Course Policies and Procedures, BPUT Syllabus, Evaluation Criteria • Detailed Lesson Plan, Question Banks, supplementary materials • Attendance and Course Progress Monitoring • Fair timely evaluation, showing answer script to students and discussion • Use of ICT, NPTEL Videos, Notes and Video lectures by faculty members • Encourage class interaction for effective learning experience • Additional / remedial classes for slow learners, Chamber consultancy • Surprise Tests and Assignments, regular viva in Lab by Co-Faculty • Faculty feedback by Students – collected in last week of semester
Curriculum Development	As a major objective of education in India now is to develop professionals having competencies, intellectual skills and knowledge equipping them to contribute to the society through productive and developing careers as innovators, decision makers and leaders in the national and global economies. The Approach to Curriculum for UG Degree Programs needs to lay special emphasis on educating/preparing the students well for being able to demonstrate the following abilities: (a) Effective application of knowledge of mathematics, science and technical subjects (b) Planning and design to conduct scientific and technical experiments (c) Analysis and interpretation of scientific, technical and economic data collected (d) Design of parts, subsystems, systems and/or processes to meet specific needs (e) Identification, formulation and solving of problems using simulation or otherwise (f) Use of techniques/tools

	including software in all disciplines, as may be required (g) Effective communication skills and leadership/participation in team work (h) Fulfillment of professional, social and ethical responsibilities (i) Sensitivity to environmental and energy issues and concerns (j) Planning, development and implementation of strategies for life-long learning

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

E-governace area	Details
Finance and Accounts	Budget preparation, approval and final issue of purchase order, approval by the budget owner is done through ERP. Fee collection and other issues done completely through ERP.
Student Admission and Support	Various student related activities, fee collection, payment of scholarship done through various ERP Modules.
Examination	Issue of registration card, registration of subject. question paper setting, examination and valuation result publication done through ERP.
Planning and Development	Proposed, discussed and approved by the competent authority like HOD, FIC etc.
Administration	Successfully implemented, maintained and monitored through ERP.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	A Mishra	Biological Inspired Techniques in many Criteria Decision Making (BITMDM-2019)	Nill	60000

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)

		staff				
2019	Conflict Management	Why Skill for Engineers	09/10/2019	09/10/2020	41	27

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Orientation	4	16/08/2019	17/08/2019	01

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
6	6	11	11

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Health Check-Up Support Services • Sports Activities for staff • Silicon Long-Service Award • Own Your Laptop Scheme • Own Your Vehicle Scheme • Own Your House Scheme • Silicon Health Care Fund • Staff Residence • Adequate facilities are provided to faculty and staff for professional development • Staff Welfare Committee • Faculty empowerment policy also in place • Quality Circle Meetings once every month • Incentives for Professional Membership and Publications • Well defined policies in Silicon Service Condition Manual • HR administration through ERP • Faculty friendly FDP policies providing financial support for Academic leave • Staff training programmes conducted periodically • Recruitment of faculty based on the guidelines	• Health Check-Up Support Services • Sports Activities for staff • Silicon Long-Service Award • Own Your Laptop Scheme • Own Your Vehicle Scheme • Own Your House Scheme • Silicon Health Care Fund • Staff Residence	• Silicon Merit Scholarship : Up to 29 students @ 12,000/annum (@ 1:60) • Silicon Employee Scholarship : 6 students @ 12,000/annum • Shakti Memorial Scholarship : 1 student – 50,000 • Best Student Award every year : Cup Certificate 20,000 • Silicon Scholars' Club : Golden band and gifts up to 1,000 • Scholars Club members get additional books from Library • Hardware cost reimbursement for final year projects up to 70 • Financial assistance to attend workshops / competitions outstation (as required

by the AICTE/university • Effective system of appraisal of faculty through ERP • High retention rate of Faculty • Grievance Redressal Cell		

6.4 – Financial Management and Resource Mobilization

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

YES.A financial audit is an independent, objective evaluation of an organizations financial reports and financial reporting processes. The primary purpose for financial audits is to give regulators, investors, directors, and managers reasonable assurance that financial statements are accurate and complete.To enhance the degree of confidence in the financial statements, a qualified external party (an auditor) is engaged to examine the financial statements, including related disclosures produced by management, to give their professional opinion on whether they fairly reflect, in all material respects,The auditor prepares the report after taking into account the provisions of the Companies Act, the accounting standards and auditing standards. Also, he lays the report before the company in the annual general meeting.Once the finance statement is audited, it is placed before the GB/Executive Council for their approval.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
No Data Entered/Not Applicable !!!		

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6.4.3 – Total corpus fund generated

200000000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	University	Yes	IQAC
Administrative	Yes	University	Yes	IQAC

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

Discussion on various quality aspects concerning teaching and Evaluation Constructive feedback help in forming better policies for all around development Enhance engagement and interaction with stakeholders to stimulate cooperative and progressive growth and development

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

ESI and EPF coverage Group Health Insurance Facility for Promotion

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

Academic Excellence Breakthrough Knowledge Innovation Transformative Learning Environment

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Importance of Accreditation and Assessment	26/10/2019	26/10/2019	26/10/2019	42
2020	Research and Innovation	21/11/2020	21/11/2020	21/11/2020	46

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
An Equal World is an Enabled World	14/03/2020	14/03/2020	42	18

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

Percentage of power requirement of the University met by the renewable energy sources

OVERVIEW: Silicon Green Club (SGC) with the tagline “Go Green” enhances a series of initiatives towards a green and eco-friendly environment. OBJECTIVES: Silicon Green Club (SGC) objective is to conduct activities and enhance initiatives towards a green and eco-friendly environment, thereby making the place around us a safer and greener place to live in. SPECIFIC GOALS: To conduct environment friendly events throughout the year, thereby providing a better environment for our living place. POLICY/RULES/GUIDELINES: All members should behave in an eco-friendly way to motivate others regarding a clean green environment. OUTCOMES OF THE CHARTER: For members: It will be beneficial for active members as they can be aware of various environmental issues can be a part of the clean green environment movement. For non-members and Institute: It will also be beneficial for non-members and institute as SGC organizes various events throughout the year, thereby making everyone aware of various environmental issues also making them a part of the clean green environment movement. ANNUAL CALENDAR OF EVENTS/ACTIVITIES: i. July--- Visit to one outside school or nearby area for creating awareness related to the environment. ii. October--- Green Olympiad/ Seminar/ Presentations on current issues in green technologies and environment. iii. February--- One environment awareness competition among students during college Tech-fest. iv. March/April--- Cleanliness / Plantation drive. COMPETITIONS AWARDS: (Key competitions won and awards received in the last 5 years should be mentioned here with awardee

student(s) details)

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	2
Scribes for examination	Yes	1
Ramp/Rails	Yes	2
Rest Rooms	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	Nill	1	21/12/2019	04	cleaness drive	sanitation	42

No file uploaded.

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)

No Data Entered/Not Applicable !!!

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Expert Talk on Anger Management	08/02/2020	08/02/2020	64
Expert Talk on Career Power of Silence	12/09/2020	12/09/2020	112

No file uploaded.

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

Full Green Campus with a lot of plantation Plastic free Campus Waste Minimization and treatment of canteen/ kitchen waste Roof top solar panels Regular energy Audit

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Teaching Methods Silicon practices a combination of traditional and modern methods of teaching and the faculty members are exposed and trained on these different methods and are adequately knowledgeable to choose the suitable method or methods for the topics to be taught in the class. The followings are a list of methods a) Lecture: Oral presentation is one of the traditional methods of teaching in which the faculty members of Silicon are very good. They take care of the clarity in voice, audibility, pace and impact while giving a lecture. They are properly trained to develop a good communication skill for such purposes. b) Lecture with discussion: At times it becomes necessary to

initiate participation from the students by engaging them in discussion on certain topics. The faculties members are take care of such requirements by guiding the students for a fruitful discussion which allows the students to learn the concepts in a better way. c) Brain Storming: The faculty members allow the students to brain storm over some topic or problems to reach or propose a solution. It has also created a healthy competition among the students to come up with better and innovative solutions for the problems. d) Use of Technology in the classroom: For better coverage of topics in limited time use of power point and DVD are becoming essential. 75 of classrooms of the Institute are equipped with all these facilities which are used by the teachers effectively. Faculty members use simulations and animations to explain many engineering process effectively. The NPTEL Video courses add value to these practices. e) Case Studies: Taking up case studies in a class is one of the best methods for exposing the students to industrial problems and their solutions. The faculty members are having adequate industry exposure for such examples and they use it effectively. f) Role Playing: In many of the subjects students are asked to handle a virtual problem. This type of role playing helps the students to get confidence to face the real life problem when they join industries. g) Worksheets/Surveys: Students are asked to collect data on different aspects related to a specified situation by questionnaires and survey and to analyze the same for inferences. They are trained to handle data represent those through worksheets and charts. This allows them to learn the method of collecting data, processing and presenting the same. h) Working Models/Live Specimens: Faculty members use models and charts (which are available in adequate numbers) to explain the concepts and operation methods of different processes. Wherever possible live specimens are also used for demonstration. Faculty members also take the students to nearby industries to have direct exposure to engineering processes. i) Guest Speakers: To break the monotony the departments invite guest speakers to deliver talks on important topics on frontier of technology. The students attend these programs enthusiastically. j) Students Seminar: Students are asked to present seminars on different topics where other students from the discipline are asked to attend. With guidance from the faculty members they learn new topics through such activities and also able to answer all the queries from fellow students and faculty members. k) Home Work / Assignment: Home work and assignments are a must to develop confidence to solve bigger problems. Carefully selected assignments encourage the students to put in independent work in the course and are highly conducive to learning. Separate assignment books are available for regular home works and assignment activities. Instructional Strategies: Identifying the appropriate instruction strategy to cater the need of a heterogeneous class is one challenge which the faculty members of Silicon have addressed efficiently. The following strategies have been implemented in various situations. a) Students Participation: Students participation in discussion, preparation of worksheets and models has been effectively utilized to keep the students interest in the subject. b) Non-Linguistic Representations: For better communication of ideas and process non-linguistic representations through models, charts, animations and live demonstration in laboratories are effectively used by faculty members. c) Cooperative Learning: Students groups are formed to share their knowledge and collaborative studies for effective and timely learning. d) Known to unknown: Sometimes academically challenged students are helped based on their present knowledge and enhancing it in pace appropriate to them. e) Simple to complex: In the above strategy the interest of the students is kept alive through simple examples and making it complex slowly so that the students can understand it at the required depth. f) Application of the Knowledge: Engineering students can learn and realize the concepts better once they apply it to simple models. This is done through suitably designed experiments in laboratories. g) Periodic Tests: To keep the students updated with the knowledge acquired continuous evaluation is done both

for theory and laboratory components of each subject. The test results are intimated to the students and the performances are analyzed to counsel them appropriately. h) For Large Class: Usually the class size around sixty in Silicon. However for some special classes when the size more adequate majors like audio arrangements are done. Also after such large classes tutorials are conducted to clarify the doubts of the students which is difficult in a large class. i) Special classes : Special classes are arranged for students with learning difficulties. These special classes are arranged during evening hours by concerned faculty members as well as senior students. The senior students are paid appropriate remuneration for such activities. j) Communication: Faculty members are trained periodically for improving their communication skills. They are trained how to use the modern technologies for better communication ideas. Students having difficulty in understanding the language are also trained in our language laboratory so that their listening skill improves. k) Rapport with Students: For every 30 students a faculty is attached to address their difficulties and needs. Such rapport with students help the Institute to maintain discipline, to counsel the students based on their need and to obtain better performance from the students. l) Evaluation of Teaching: The teaching quality of a faculty member is evaluated by taking several things in to consideration. The students feedback on the teacher which is taken online during the semester, performance of the students in the particular subject and the inspection of the course file of the faculty member for the subjects. Senior professors visit the classes of faculty members randomly to observe their teaching effectiveness. The faculty members are appraised about this evaluation outcome and necessary counseling is done to them wherever required. Silicon Best Practices Over a period of 18 years, Silicon has evolved a series of best practices that has helped it to emerge as a centre of excellence. Some of them are: 1. Effective pedagogy and student-centric learning by self and ICT based learning. 2. Secular campus with no religious bias. 3. Seminars by senior faculty members and industry experts. 4. Training of students for placement examination and interview. 5. Institution e-mail ID for every staff student. 6. Special classes for academically slow learners. 7. Chamber consultancy/assistance available to students. 8. Standard guidelines for faculty members to prepare lesson plans, model answers and course handouts. 9. In-house projects under the guidance of faculty members. Many of these projects have won prizes in various competitions. 10. Infosys “Campus Connect” programme for selected students 11. The annual function and tech fest for all round development of the students 12. A student council works for the social cause and betterment of students 13. Best Student award of the year 14. Communicative English programme to strengthen the communication skills of the student. 15. Heads conduct regular monitoring of the syllabi coverage by the faculty members. 16. Detailed supplementary courseware files prepared to augment the course syllabus. 17. Thrust given to ICT enabled courses and ICT competency. 18. Knowledge communication centre to provide research and learning. 19. Open House Science programme. 20. In-house documentation centre. 21. Industry-Silicon interaction activities are promoted. 22. Innovation and Incubation facilities for students. 23. Entrepreneurship awareness and development programmes for students on regular basis 24. Efficient ERP system manages all academic and administrative activities. 25. Top-ranked Institute Innovation Cell (IIC) encourages and monitors Institute research and entrepreneurship activities. 26. Seed money given to faculty members to encourage inter-disciplinary research, culminating in external funding 27. Several active MoUs in place with with leading government and private organizations, in both academia and industry.

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

https://silicon.ac.in/bbsr-home/mandatory-disclosure/

7.3 – Institutional Distinctiveness

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

? Silicon Best Practices Over a period of 18 years, Silicon has evolved a series of best practices that has helped it to emerge as a centre of excellence. Some of them are: • Secular campus with no religious bias. • Orientation programme for newly appointed faculty members. • Online feedback from students on the performance of faculty members. • Faculty members as mentors to students. • Quality Circle meetings for improvement of academic as well as social and environmental issues. • Orientation programme for new entrants and parents meet every year. • Seminars by senior faculty members and industry experts. • Training of students for placement examination and interview. • Yoga as a compulsory subject for all students. • Institute e-mail ID for every staff student. • Special classes for academically weak students. • Chamber consultancy/assistance available to students. • Standard guidelines for faculty members to prepare lesson plans and course handouts. • In-house projects under the guidance of faculty members. Many of these projects have won prizes in various competitions. • Infosys "Campus Connect" programme for selected students • The annual function and tech fest for all round development of the students • A student council works for the social cause and betterment of students • Best Student award of the year Student Development Activity • Total Student Development Program • Gifted Student Development Program • Student Academic Support Program • Student Assistantship Program • Student Research and Related Activities ? Faculty Staff Development Activity • Faculty Research and Related Activity • Professional Society Memberships • Scope for Continuing Education for Faculty • Staff Skill Up-gradation ? Institutional Societal Responsibility • Community Development Activity

Provide the weblink of the institution

https://silicon.ac.in/bbsr-home/mandatory-disclosure/

8.Future Plans of Actions for Next Academic Year

Silicon Institute of Technology, Odisha shall employ a broad range of strategies to achieve its vision and objectives . design and deliver high quality training, capacity building and development systems for teachers, teacher educators, teachers in higher and professional education, administrators and development professionals working in education and other systems . undertake necessary or expedient action to pursue and promote the objectives of upgrading it to a University. undertake collaborative research and advocacy with any organizations in India or overseas Connectivity to Purpose /Intercultural Competency /Student Centered Decision-making /Innovative Research-to-Application Platforms a. Enhance teaching and learning. b. Manage enrollment growth (includes recruitment and retention). c. Through a revitalized program review process, examine the University's program mix, evaluate underperforming programs, and establish new degree programs that will prepare students for productive careers. d. Develop undergraduate and graduate interdisciplinary academic programs that link to emerging areas of scholarship. e. Develop professional master's programs in areas of pressing need f. Foster a supportive yet challenging living, learning and working environment with services and programs that promote learner success and wellness. g. Recruit, retain, and develop well qualified faculty and staff. h. Enhance the quality and diversity of the campus human resources including faculty and students. i. Develop internships, field experiences, and/or service learning opportunities for all degree programs. j. Develop opportunities for inter-disciplinary doctoral education programmes. k. Provide opportunities and resources to help faculty improve their teaching effectiveness as well as to assist students to become better learners. l. Develop and support

interdisciplinary programs, international degree programs, and inter-institutional arrangements with Universities in other countries as well as domestically such as: • Marine and Naval Engineering Sciences • Sustainable Energy and the Environment Initiative • Humanities and the Arts Initiative m. Provide current and affordable student housing with programs and services that support student success. a. Establish a stable funding source to provide adequate support for research and development. b. Establish opportunities and resources to improve and enhance the institution’s commitment to discovery and research. c. Strengthen and diversify the research portfolio by proactively pursuing alternate funding sources, including an expansion of corporate support d. Foster a culture of discovery and research that celebrates the achievements of faculty, students, and staff. e. Continue to support and further develop the Silicon Research Center. a. Promote intercultural scholarship and learning b. Increase student engagement with faculty in research or creative activity, especially at the undergraduate level c. Promote Honors programs that draw and serve our most capable students d. Expand participation in study-abroad experiences and internships that involve international placements e. Increase the capacity for effective communication across cultural and linguistic boundaries f. Provide internship, practicum and other experiential learning opportunities a. Enhance the use of Information Technology resources necessary to support academic excellence in teaching and learning, discovery, and engagement. b. Utilize the use of appropriate technologies to enhance business partnerships with the University to improve all business processes while also automating internal business processes.