

Yearly Status Report - 2018-2019

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.	06742728005				
Mobile no.	9051419777				
Registered Email	jaideep@silicon.ac.in				
Alternate Email	principal@silicon.ac.in				
Address	Silicon Hills, Patia				
City/Town	Bhubaneswar				
State/UT	Orissa				
Pincode	750124				
2. Institutional Status					

Autonomous Status (Provide date of Conformant of Autonomous Status)	27-Sep-2018
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.Siba Sankar Nayak
Phone no/Alternate Phone no.	06742728005
Mobile no.	9861930033
Registered Email	snayak@silicon.ac.in
Alternate Email	snayak_2009@yahoo.com
3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	<u>http://www.silicon.ac.in/sitbbsr/qua</u> litypolicy

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/upload s/2022/01/Academic-Calendar- AY-2021-22.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Validity		
			Accrediation	Period From	Period To
1	А	3.04	2014	10-Dec-2014	09-Dec-2019
2	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					

Role of Assessment and07-MayAccreditation for Quality02Assurance03			y-2019)2			45			
Role of IP &Technolog innovation and Transf under Make in India a start -up-india	ole of IP &Technological 13-Ju nnovation and Transfer nder Make in India and tart -up-india					39			
		Vie	<u>w File</u>						
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/Departmen t/Faculty	Scheme	Funding	g Agency	Year o	of award with duration	Amount			
	No Data	Entered/	Not Appli	.cable	!!!				
	N	o Files	Uploaded	!!!					
9. Whether composition of IQAC as per latest Yes NAAC guidelines:									
Upload latest notification of form	nation of IQAC	;	<u>View File</u>						
10. Number of IQAC meeting year :	gs held durin	g the	2						
The minutes of IQAC meeting a decisions have been uploaded or website	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 tak	en report	View	<u>File</u>					
11. Whether IQAC received f the funding agency to suppo during the year?	unding from ort its activitie	any of es	No						
12. Significant contributions	made by IQ/	AC during	the current	year(m	aximum five	bullets)			
1) Preparation of a proposal for applying to Govt. for University status 2) More encouragement for faculty research 3) Yearly action plan of a dept, designed, implemented and monitored with respect to various quality parameters 4) Periodic review of the quality policy in view of global perspective 5) Emphasis on ICT based teaching learning methods									
	<u>View File</u>								
13. Plan of action chalked out Enhancement and outcome a	3. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Inhancement and outcome achieved by the end of the academic year								

Plan of Action	Achivements/Outcomes			
More emphasis on student innovations and start-ups.	Very encouraging with more participation by students with some winning state and National level hackathons.			
Faculties are encouraged to guide student for Ph.D work.	More number of faculty registered as Ph.D guides with the parent University recognising the institute as a Nodal Research Center in streams.			
At least one research paper per facuty per year in a reputed UGC notified journal	No and quality of paper gone up			
View	<u>v File</u>			
14. Whether AQAR was placed before statutory body ?	Yes			
Name of Statutory Body	Meeting Date			
Executive Council	16-Jul-2019			
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)	All academic and administrative issues processed through ERP managed by the institute, The various modules include student admission, fees, hostel admission, their grievances, study material, faculty profiles, attendance , leave approval, purchase order, financial settlement, library book issue, staff details, various documentation.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	1.1.1 – Programmes for which syllabus revision was carried out during the Academic year							
Name of Programm	e Prog	gramme	Code	Programm	e Speci	alization		Date of Revision
BTech		UG		Computer science, ECE, , EEE, EIE,EEE, Eand IE		01/08/2018		
Mtech		PG		CSE,	EEE, MCA	ECE,		01/08/2018
			No file	uploaded	ι.			
1.1.2 – Programmes/ co year	ourses focussed	d on em	ployability/	entrepreneu	ırship/ s	kill develo	pmer	nt during the Academic
Programme with Code	Programm Specializat	ne ion	Date of Int	troduction	Cours	se with Co	de	Date of Introduction
BTech	UG		01/0	8/2018	1	18HS1L02		01/08/2018
			<u>View</u>	<u>v File</u>				
1.2 – Academic Flexib	oility							
1.2.1 – New programme	es/courses intro	duced	during the A	cademic ye	ar			
Programme/C	ourse	Pi	rogramme S	Specializatio	n	D	ates	of Introduction
BTech	BTech Elect Instrument place of Electr Instru			onics and tion Eng Applied nics and entation	l in		01	1/08/2018
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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.

College level during the Academic year	•						
Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System					
BTech	Computer science Engineering,Electronics communication, Electrical Electronics, Electronics I	01/08/2018					
Mtech	Computer science &Engineering, Electrical & Electronics, Electronics & communication,	01/08/2018					
MCA	MCA	01/08/2018					
1.3 – Curriculum Enrichment							
1.3.1 – Value-added courses imparting	transferable and life skills offered duri	ng the year					
Value Added Courses	Date of Introduction	Number of Students Enrolled					
Professional Ethics Human Values	01/08/2018	527					
	No file uploaded.						
1.3.2 – Field Projects / Internships under taken during the year							
Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships					
BTech	computer science, Electronics, Electrical & Electronics	215					
	<u>View File</u>						
1.4 – Feedback System							
1.4.1 – Whether structured feedback re	eceived from all the stakeholders.						
Students		Yes					
Teachers		Yes					
Employers		Yes					
Alumni		Yes					
Parents		Yes					
1.4.2 – How the feedback obtained is b (maximum 500 words)	being analyzed and utilized for overall o	development of the institution?					
Feedback Obtained							
Feedback obtained both manually and on line mode. It is analysed with grievances being recorded and discusses in the right forum. Steps are taken for implementation of the recommendations. The institute has a clearly set and defined mechanism of obtaining the feedback from the students to improve the performance and quality of the institutional previous of the feedback for							

performance and quality of the institutional provisions. Student Feedback is obtained every semester in regard to Faculty, Teaching Learning Process, Course Curriculum. Parent feedback is obtained during the Parents Meet held on second Saturday of September every year. Alumni meet is held every year. Informal feedback is obtained from peer institutions and community and the outcomes are used for improvement of the curriculum through Principal and HODs, who in turn present the relevant extracts of the feedback / suggestions before the Academic Council / Board of Studies of the University for possible incorporation / modification of syllabi. The IQAC in the planning process considers feedbacks collected from all the stakeholders to prepare perspectives on development. These developmental perspectives are discussed in the respective meetings of Advisory Board, RC, PT and alumni. The reflections of the meetings are incorporated in the plan. The institution has developed evaluation tools for stakeholders to record their opinions, suggestions and objections for constructive developments for future.

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	PG	54	12	2
MCA	PG	60	324	25
BTech	EEE	120	384	107
BTech	EIE	60	82	21
BTech	CSE	180	549	187
BTech	ECE	180	452	174

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2.2 – Catering to Student Diversity

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

Year	Number of	Number of	Number of	Number of	Number of
	students enrolled	students enrolled	fulltime teachers	fulltime teachers	teachers
	in the institution	in the institution	available in the	available in the	teaching both UG
	(UG)	(PG)	institution	institution	and PG courses
			teaching only UG	teaching only PG	
			courses	courses	
2018	489	26	126	2	128

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), Elearning 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					
128 32 32 38 8 8										
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)

Yes.A group of 30 students is assigned a teacher as the Faculty Adviser. The FA takes feedback from the students regarding their grievances. FA submits monthly report to the H O Ds and the Dean. Report is discussed and corrective measures are taken. 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
2208	128	1:17

2.4 – Teacher Profile and Quality

2.4.1 - Number of full time teachers appointed during the year

No. of sanctioned No. of filled positions positions		Vacant positions	Positions filled during No. of faculty wi the current year Ph.D			
132	128	4	4	35		

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies				
2019	Mrs. Manorama Swain	Assistant Professor	ISTE State level Best Teacher Award				
2018	Dr.Bimal Prasad Meher	Best Thesis Award by CSI					
No file uploaded.							

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

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[BTech	UG		8	30	0/03/2019	14/06/2019					
	BTech	UG		6	12	2/04/2019	26/07/2019					
	BTech	UG		4	04	4/05/2019	03/08/2019					
	BTech	UG		2	04	4/05/2019	17/06/2019					
	MCA	PG		6 12/0			26/07/2019					
	MCA	PG		4	04	4/05/2019	03/08/2019					
	MCA PG 3 04/05/2019 17/											
	No file uploaded.											
2 th	2.5.2 – Average percenter examinations during	ntage of Student g the year	complaints/grieva	nces about e	evaluati	on against total nu	mber appeared in					
	Number of complaints or grievances about evaluationTotal number of students appeared in the examinationPercentage											
	135	5	2	2100			7					
2	.6 – Student Perforr	mance and Lea	rning Outcomes									
2 in	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://si	ilicon.ac.in	/bbsr-home/b-	tech-com	puter-	-science-engi	neering/					
2	2.6.2 – Pass percentage of students											
Programme Code Programme Name Programme Specialization Number of students appeared in the final year Number of examination Number of students passed in final year Pass Pe												
	Programme Code	Programme Name	Programme Specialization	Number studen appeared final ye examina	r of its in the ear ition	Number of students passed in final year examination	Pass Percentage					
	Programme Code UG	Programme Name BTech	Programme Specialization Computer science	Number studen appeared final ye examina 11	r of hts in the ear htion 6	Number of students passed in final year examination 111	Pass Percentage					
	Programme Code UG UG	Programme Name BTech BTech	Programme Specialization Computer science Electronics & Communicat ion	Number studen appeared final ye examina 11	r of hts in the ear htion 6	Number of students passed in final year examination 111 149	Pass Percentage 96 89					
	Programme Code UG UG	Programme Name BTech BTech BTech	Programme Specialization Computer science Electronics & Communicat ion Electrical& Electrical&	Number studen appeared final ye examina 11 16	r of hts in the ear htion 6 9	Number of students passed in final year examination 111 149 107	Pass Percentage 96 89 89					
	Programme Code UG UG UG UG	Programme Name BTech BTech BTech BTech	Programme Specialization Computer science Electronics & Communicat ion Electrical& Electronics Applied in strumentatio n	Number studen appeared final ye examina 11 16 12 47	r of hts in the ear htion 6 9	Number of students passed in final year examination 111 149 107 40	Pass Percentage 96 89 89 85					
	Programme Code	Programme Name BTech BTech BTech BTech	Programme Specialization Computer science Electronics & Communicat ion Electrical& Electronics Applied in strumentatio n MCA	Number studen appeared final ye examina 11 16 12 47 47	r of hts in the ear htion 6 9 1	Number of students passed in final year examination 111 149 107 40 49	Pass Percentage 96 89 89 85 96					
	Programme Code	Programme Name BTech BTech BTech BTech BTech	Programme Specialization Computer science Electronics & Communicat ion Electrical& Electronics Applied in strumentatio n MCA IT	Number studen appeared final ye examina 11 16 12 47 47 51 53	r of hts in the ear htion 6 9 1 1 7	Number of students passed in final year examination 111 149 149 40 40 49 48	Pass Percentage 96 89 89 89 89 96 96 91					
	Programme Code UG UG UG UG UG UG UG	Programme Name BTech BTech BTech BTech BTech BTech	Programme Specialization Computer science Electronics & Communicat ion Electrical& Electronics Applied in strumentatio n MCA IT No file	Number studen appeared final ye examina 11 16 16 12 12 47 47 51 53 uploaded	r of hts in the ear htion 6 9 1 1 7	Number of students passed in final year examination 111 149 107 40 49 48	Pass Percentage 96 89 89 89 89 89 85 85 96 91					
2.	Programme Code I UG I I I	Programme Name BTech BTech BTech BTech BTech BTech	Programme Specialization Computer science Electronics & Communicat ion Electrical& Electronics Applied in strumentatio n MCA IT No file	Number studen appeared final ye examina 11 16 16 12 12 47 51 53 53 uploaded	r of hts in the ear htion 6 9 1 1	Number of students passed in final year examination 111 149 149 107 40 49 48	Pass Percentage 96 89 89 89 89 89 89 96 91					

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

http://www.silicon.ac.in

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research									
Yes									
Name of the teacher getting seed money									
Dr. A.G Mohapatra									
<u>View File</u>									
3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year									
TypeName of the teacher awarded the fellowshipName of the awardDate of awardAwarding agency									
National	Nill	Nill		Nill	Nill				
		No file uploaded	l.						
3.2 – Resource Mobili	zation for Researc	<u>ו</u>							
3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations									
Nature of the ProjectDurationName of the funding agencyTotal grant sanctionedAmount received during the year									
Major 1095 DST,GOI 1700000 1000000 Projects 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 1000000 1000000 1000000 1000000 1000000 1000000 1000000 10000000 10000000 10000000 1000000 100									
Major 1095 SERB 1000000 275000 Projects									
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3.2.2 – Number of ongo during the years	ing research projects	per teacher funded by g	overnm	ent and non-go	vernment agencies				
		2							
3.3 – Innovation Ecos	system								
3.3.1 – Workshops/Sen practices during the yea	ninars Conducted on r	ntellectual Property Righ	nts (IPR)) and Industry-A	Academia Innovative				
Title of workshop	/seminar	Name of the Dept.			Date				
IPand techno innovations and under Make in : start up i	ological transfer india and ndia	IQAC		13/08/2019					
IOT Work	shop C	SE with Lecture No Ltd	otes	04	4/09/2018				
IOT with Rasp	bherry Pi	STE Students chap	ter	0:	2/02/2019				
Importance of	f Patents	ED Cell		10	0/01/2019				
		No file uploaded	ι.						
3.3.2 – Awards for Inno	vation won by Institut	on/Teachers/Research s	scholars	/Students durin	g the year				
Title of the innovation	Name of Awardee	Awarding Agency	Dat	e of award	Category				

Dev of inno tivesafety measure for t wheelers	Prasha Ranjan	nt	TATA C 20	rucible 19	20)/02/201	9	INNOVATIONS	
Smart solution for drainage syst	Smart swagat K lution for Sahu inage system			Smart Hackath	mart Odisha 15/11/2018 kathon 2018		8	Urban planning	
cost effective innovation fo agricultural use	cost Man: effective Gho innovation for agricultural use		pa	Smart Hacka	: India ithon	ndia 22/06/20. on		8	Smart innovation
Idea Generation Competition	Inno	Institut ovation	cion Cell	MHRD Del), New hi	21	1/11/201	8	Idea Generation
3.3.3 – No. of Incub	ation cen	tre create	d. start-	ups incubat	ed on camp	us durir	ng the year		
Incubation Center	Na	me	Spon	sered By	Name of Start-u	f the up	Nature of up	INNOVATIONS INNOVATIONS Innovation Innovation Idea Generation Idea Generation Idea Idea Generation Idea 	
Incubation	bation Silicon Innovation and Incubation center		MSI	ME, GO I	VLS	31	Smart	Chip	15/01/2019
Incubation	Incubation Silicon Innovation and Incubation center		MS (SME,G OI	ΙO	т	Innov	ation	21/12/2018
				No file	uploaded	1.			
3.4 – Research Pu	blicatior	s and A	wards						
3.4.1 – Ph. Ds awar	ded durin	g the yea	r						
Computer	me of the	Departme	ent	ering		Nun	hber of PhE	D's Awar	ded
3.4.2 – Research Pi	ublication	s in the Jr	ournals	notified on l	JGC websit	e durinc	the vear	-	
Туре		D	epartm	ent	Number	of Publi	cation	Average	e Impact Factor (if any)
Internatio	International comp		uter and Er	science ^{1g}		2			3.5
Internati	International Elect Cor		ctroni	lcs and ng		2			3
Nationa	National Comput ar		uter and Er	science Ng		14			2.5
Nationa	al	Eleo Inst	ctroni rument	cs and ation		б			2
Nationa	al .	Elec	ctroni	lcs and ng		11			2

Natio	onal	Basic scienc Humanities	e and		12		1.5	
Natio	onal	MCA			6		1	
		No	file	upload	ded.			
3.4.3 – Books an	d Chapters i	n edited Volumes / E	Books pu	blished,	and papers in N	ational/Interna	tional Conference	
Proceedings per	Teacher duri	ng the year						
	Depar	tment			Numbe	r of Publicatio	n	
Elec	tronics I	Instrumentation				4		
El	ectrical	Electronics				2		
	M	ICA				3		
	Electron	nics Comm.				9		
Bas	sic scien	ce Humanities				7		
	Compute	r science				3		
		No	file	upload	ded.			
3.4.4 – Patents p	ublished/awa	arded during the yea	r					
Patent De	etails	Patent status		P	atent Number	Da	te of Award	
00		Nill	,	•	0		Nill	
		No	file	upload	ded.			
245 Bibliomot	rice of the pu	ublications during the		- domic v	(oar based on av	vorago citation	index in Sconuc/	
Web of Science o	r PubMed/ Ir	ndian Citation Index	1051 000	uenne y	eal based off av	erage citation	index in Scopus/	
Title of the	Name of	Title of journal	Yea	ar of Citation Index Institutional Number of				
Paper	Author		public	ation		affiliation as	citations	
						the publicatio	n citation	
Stress-	S Das	Journal	20)19	5	SIT,Bhu	b 1	
Induced Va		of				aneswar		
riability Studies in		Electronic						
Tri-Gate		Matcriarb						
FinFETs								
with Sourc								
Stressor								
at 7 nm								
Technology								
Nodes								
Estimating	B B Mishra	Financial	20)18	28	SIT, Bh	u 25	
Stock	iii biii a	Innovation				Danebilar		
Closing								
Indices								
Using a GA- Weighted								
Condensed								
Polynomial								
Neural								
Network								
			<u>View</u>	File				

3.4.6 – h-Index o	3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)								
Title of the Name of Title of journ Paper Author				al Yea public	r of ation	h-index	Numbe citation excluding citatio	r of ns g self on	Institutional affiliation as mentioned in the publication
Automated approach for detection of ischemic stroke using Delaunay T riangulati on in brain MRI images	MI	Dash	Computer; in Biolog and Medicine	2 S Y	018	94	14	4	SIT,Bhub aneswar
Electro- osmotic flow of a third- grade fluid past a channel having stretching walls	Electro- S Padhi osmotic flow of a third- grade fluid past a channel having stretching walls		Nonlinea: Engineeri g	2 r .n	019	15	15 8		SIT,Bhub aneswar
				View	<i>ı</i> File				
3.4.7 – Faculty p	articipatio	on in Se	minars/Confe	erences and	I Sympos	sia during the ye	ar		
Number of Fac	culty	Interi	national	Nati	onal	l State		Local	
Attended/ nars/Worksh	Semi 10ps		8		53	2	2		5
Present papers	ed		24		2	2	2		2
Resourc	ce	:	Nill		7	8	}		11
				<u>Viev</u>	<u>/ File</u>				
3.5 – Consultan	су								
3.5.1 – Revenue generated from Consultancy during the year									
Name of the Consultan(s)Name of consultantdepartmentprovide			Name of cons project	ultancy	Consu	ulting/Sponsorin Agency	g R (a	evenu amoun	e generated t in rupees)
EEE(Prof.R P Panda) N a Ir			Integra etwork Pla nd system for Mega rigation p cluster	ated anning study Lift project X	Agency (amount in rup SaiSanket 14000 enterprisers, Hyderabad			40000	
				NO IILE	upload	lea.			

3	3.5.2 – Revenue generated from Corporate Training by the institution during the year								
	Name of the Consultan(s) department	I	Title of the programme	Agency s trair	seeking / iing	Revenue genera (amount in rupe	ated es)	Number of trainees	
	00		0		0	0		0	
				No file	uploaded	ι.			
3	3.6 – Extension Activities								
3 N	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 collaborati			t/agency/ agency	Number of teachers participated in such activitiesNumber of students participated in such activities			umber of students articipated in such activities	
	11th Odisha De senior sports championship	eaf	Sports ce	ll, sit		11		200	
	Cleaning Driv	ve	Bhubane Municipal	eswar corp.		14		287	
	Blood Donatio	on	Red Cr	oss		12		45	
				No file	uploaded	l.			
3 d	3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year								
	Name of the activit	у	Award/Reco	gnition	Award	ling Bodies	Number of students Benefited		
	0		00			0		Nill	
				No file	uploaded	l .			
3 0	6.3 – Students particip rganisations and progr	pating amme	in extension acties such as Swach	vities with G nh Bharat, A	Government Nids Awaren	Organisations, N less, Gender Issu	on-Go e, etc	overnment . during the year	
	Name of the scheme	Orga cy	nising unit/Agen /collaborating agency	Name of the	ne activity	Number of teach participated in s activites	ners luch	Number of students participated in such activites	
	Awareness		BMC	Gender tyAwar	Equali Teness	8		49	
	Swachhta Pakhwada	a Silicon Cleanliness12 Students Council and Campus-life Coordination Committee (CCC).			12		122		
	No file uploaded.								
3	.7 – Collaborations								
3	.7.1 – Number of Colla	aborat	ive activities for re	esearch, fac	culty exchar	nge, student exch	ange	during the year	
Π	Nature of activity		Participa	ant	Source of f	inancial support		Duration	
	Research		01			SERB		60	
				No file	uploaded	ι.			
	No Tile uploaded.								

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 Name of the **Duration From** Duration To Participant linkage partnering institution/ industry /research lab with contact details 0 0 Nill Nill 00 0 No file uploaded. 3.7.3 - MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year Organisation Purpose/Activities Number of Date of MoU signed students/teachers participated under MoUs Institute of 25/06/2019 5 collaboration in Engineers training and research View File **CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES** 4.1 – Physical Facilities 4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year Budget allocated for infrastructure augmentation Budget utilized for infrastructure development 1553.84 459.19 4.1.2 - Details of augmentation in infrastructure facilities during the year Existing or Newly Added Facilities Others Newly Added Video Centre Newly Added Seminar halls with ICT facilities Newly Added Classrooms with LCD facilities Newly Added Laboratories Existing No file uploaded. 4.2 – Library as a Learning Resource 4.2.1 - Library is automated {Integrated Library Management System (ILMS)} Name of the ILMS Nature of automation (fully Version Year of automation software or patially) SILICON ERP Fully 2.0 2014 4.2.2 - Library Services Newly Added Total Library Existing Service Type 37722 38387 Text 8841 455 665 9296 Books <u>View File</u>

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

(Learning Management System (LMS) etc										
Name of the Teacher	Name of the	Module	Platform on which module is developedDate of launching e- content							
Dr. J.P.Mohanti	Theory, DBMS, ics	LMS, Lecturenotes 12/08/2019								
Dr. J.Senapati	E DP		LMS,			14	4/03/2019)		
Dr. B. Padhi	Accounting	g and	LMS 11/12/2018							
Dr. P.K Tripathy	CAO		Lectur	renotes		24	24/04/2019			
Mr. G.R.Biswal	Electrical Machines	L	Youtuk	be		17	//06/2019)		
Dr. S.S.Rout	Software Engineering		Lectur	renotes		21	/01/2019)		
	1	No file	uploaded	l .						
4.3 – IT Infrastructure										
4.3.1 – Technology Upgrada	tion (overall)									
Type Total Co Com mputers La	puter Internet ab	Browsing centers	Computer Centers	Office	Departi nts	me	Available Bandwidt h (MBPS/ GBPS)	Others		
Existin 798 4: g	Existin 798 435 54 0 10 54 g						5 150			
Added 42 2	2 5	0	0	5	10	0 55 0				
Total 840 4	57 59	0	10	59	255	5	205	0		
4.3.2 - Bandwidth available	of internet connec	tion in the l	nstitution (L	eased line)						
		205 MB	PS/ GBPS							
4.3.3 – Facility for e-content										
Name of the e-conter	t development fa	cility	Provide t	he link of th rea	e video cording i	os an facili	d media cei ty	ntre and		
Study 1	Materials			https://	www.s	ili	con.ac.i	<u>n</u>		
4.4 – Maintenance of Cam	pus Infrastructu	re	•							
4.4.1 – Expenditure incurred component, during the year	on maintenance of	of physical f	acilities and	academic	support	facil	lities, exclud	ding salary		
Assigned Budget on academic facilities	Expenditure inc maintenance of facilitie	curred on academic s	Assigne physic	ed budget o cal facilities	n	Exp mair	enditure inc ntenance of facilites	curredon physical		
451.17	333.	94		495.97			302.0	53		
4.4.2 – Procedures and polic library, sports complex, comp	ies for maintaining uters, classrooms	g and utilizii etc. (maxir	ng physical, num 500 wo	academic a ords) (inform	and sup	port o be	facilities - la available in	aboratory,		

institutional Website)

An administrative set up is in place with a senior faculty as the H O D establishment. He is the budgetary and monitoring head of the maintenance part

supported by a civil engineer, an electrical engineer along with a no of supporting staffs. Construction part is fully looked after by a site engineer with a lot of ground staffs and supervisors. There is a Dean(Administration) looking after the general academic and general administration. Our system is having a senior faculty in charge of sports/ music clubs. Enough lab staffs are there for lab maintenance with a faculty as Lab coordinator. Various support facilities are well maintained with regular supervision and up gradation. Hostel administration is well maintained by a good no of support staffs with a warden . A hostel committee is in place for both boys and girls with faculty and student members. 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. Rules, Regulations and Policies: Silicon Institute of Technology has well defined Rules, Regulations and Policies governing academic administrative functioning of the Institution that includes Student Handbook, Service Rules, Recruitment Policies, Staff Appraisal and Development Pi Promotional Policies etc. These Rules, Regulations and Policies are available online in the Institutional ERP system for awareness of Student and Staff. Decentralization in working and grlevance redressal mechanism .

http://www.silicon.ac.in

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, Silicon Employee	28	336000
Financial Support from Other Sources			
a) National	Govt merit, Medhabruti	227	4592000
b)International	Nill	Nill	Nill

<u>View File</u>

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 Date of implemetation Number of students Agencies involved enhancement scheme enrolled Entrepreneurship 11/01/2019 125 NSTEDB, Govt of Awareness Camp India NSTEDB, Govt of Entrepreneurship 24/09/2018 150 Awreness Camp India IoT with 02/02/2019 40 IEEE Raspberry pi Meditation 17/01/2019 Yoga Club 120 22/03/2019 219 Language Lab Globarena View File 5.1.3 - Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year Name of the Number of Number of Number of Year Number of studentsp placed scheme benefited benefited students who students for have passedin students by competitive career the comp. exam examination counseling activities 2018 21 124 11 432 Pre placement Training, Career counselling 2019 12 120 452 Pre 17 placement Training, Career counselling No file uploaded. 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 4 4 5.2 – Student Progression 5.2.1 - Details of campus placement during the year On campus Off campus Nameof Number of Number of Nameof Number of Number of stduents placed organizations students stduents placed organizations students visited participated visited participated 21 562 338 9 124 98 <u>View File</u>

5.2.2 – Student progression to higher education in percentage during the year										
Year	Number of studentsProgramme graduated fro graduated fro higher education			Depr gradua	atment ted from	Name of institution joined	Name of programme admitted to			
2019	2	Bte	ech	CSI	E, ECE	NIT, Rourlela	Mtech			
2019	3	вт	ech	CSI	C, EEE	KIIT	Mtech			
2018	5	BT	ech	ECI	E, CSE	Xavier Institute Of Management, BBSR	MBA			
No file uploaded.										
5.2.3 – Students q eg:NET/SET/SLET	ualifying in state/ n /GATE/GMAT/CA	ational/ intern T/GRE/TOFE	national EL/Civil S	level exa Services/	aminations State Gov	during the year ernment Services)				
	Items				Number of	students selected	qualifying			
	GATE					12				
	CAT					10				
	Any Other					8				
		No	file	upload	led.					
5.2.4 – Sports and	cultural activities /	competitions	s organis	sed at the	e institutior	n level during the ye	ear			
Activity Level Number of Participants										
Cricket	Tournament		Unive	ersity 28						
Inter volle	college ayball		Unive	ersity 30						
Inter co Ter	llege Table mis		Unive	ersity 11						
		No	file	upload	led.					
.3 – Student Par	ticipation and A	tivities								
5.3.1 – Number of evel (award for a te	awards/medals for eam event should b	outstanding be counted as	perform s one)	ance in s	sports/cultu	ural activities at nat	ional/international			
Year	Name of the award/medal In	National/ ternaional	Numb awaro Spo	per of ds for orts	Number awards Cultura	of Student ID for number al	Name of the student			
2018	English Elocution	National	N:	i11	1	2017 EF	E Sanath Kumar Swain			
2018	English Elocution	National	N	i11	1	2018 Cs	E Swaraj Baral			
2018	Hindi Elocution	National	N	ill	1	2017 EC	E Shweta Santoshi			
		No	file	upload	led.					
.3.2 – Activity of S ie institution (max	Student Council & I imum 500 words)	epresentatio	n of stud	dents on	academic	& administrative bo	odies/committees			
Student c	ouncil is an	elected b	ody of	stude	ents dra	wn from each	section or			

group, Only students with good attendance, performance is eligible for standing as a member. The selected representatives choose one as the Secretary General.Silicon student council takes the charge of maintaining good atmosphere, discipline of the institute. The SG is the member of the disciplinary committee, IQAC, and some other decision making body. Student representatives from student council are the members of Canteen committee, Residence committee, Cultural and sports committee. The annual function is fully organised by the council. It conducts the Annual Tech Fest, Cultural Night, various other meets such as Induction Programme for new students, The anti ragging committee, anti ragging squad , do have active student members. The grievance readdressal committee is having student members. 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

Our first Alumni Meet was held at Mumbai on the 25th March 2006. A proud set of 30 members joined hands to share their views and dreams of thinking big and beyond. 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 family prosperous and humane, noble and contributing to the humankind in a larger way!Vision: To become a center of excellence in the fields of technical education research and create responsible citizens. Mission: To provide the best of technical skills, professional ethics, and human values in enriching the disciplines of Science, Engineering and Technology for social development and Nation building.

5.4.2 – No. of registered Alumni:

1018

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

200000

5.4.4 – Meetings/activities organized by Alumni Association :

Annual meet, Organised talk, Participation in various extensive activities, The 10th Alumni Meet was organized on 28th December 2017 inside the campus. There were 214 alumni members from different passing out batches attended the meet. Dr. Jaideep Talukdar (Principal) delivered the welcome address. A small cultural program and other entertainment programs were organized in the evening

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)

1-Participation of members and staffs of a department in the decision making process. 2-Discussion on various staff grievance and other issues in the monthly quality circle meeting and the decisions conveyed to the institutional decision making bodies. The quest for good technical education with a social look and human value 2- Participatory management and work culture 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. Silicon Incubation Centre 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-Faculty Relationships • Building Industry Focused

Technology Value Stream • Employment Generation • Enable Automation in the Local Market Examination Process in Silicon • 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 The Approach to Curriculum for UG Degree Programs needs to lay special emphasis on educating.

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
Admission of Students	Transparent process of admission
Industry Interaction / Collaboration	Proper utilization of various collaboration and industrial linkage
Human Resource Management	Proper use of human resources in various strategic role
Library, ICT and Physical Infrastructure / Instrumentation	Emphasis on e resources and effective use of ICT and other facilities.
Research and Development	Thrust on interdisciplinary research and focus on emerging areas.
Examination and Evaluation	Transparency in examination and evaluation process which is mostly done on line with various level of moderation, change in question set up.
Teaching and Learning	Use of ICT and other e resources for improving class room teaching and learning.
Curriculum Development	Participation of all faculty in the curriculum revision once in 2 years under the Autonomous system.

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

E-governace area	Details
Administration	Administration fully managed by the ERP system with help of various modules designed in an effective way
Finance and Accounts	ERP modules include budget making, approval, execution of various work order, order execution, auditing, salary disburshment
Student Admission and Support	Admission, unique id creation,hostel admission, fee collection, recording of grievance, leave approval
Examination	Examination erp module includes notification of schedule, question set up, moderation, answer sheet ,admit card, seating arrangement generation,

	evaluation.result publish, re
	examination, grade sheet generation
Planning and Development	mostly executed by the ERP system

a systematic and transparent way

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			
2018	Siba Sankar Nayak	National seminar on Future India, Science Technology	Association of Chemistry Teachers	1000			
<u>View File</u>							

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Language skill for Leadership Management	Language Training	26/04/2019	27/04/2019	24	8
2018	Leadership Quality En hancement	Leadership Quality En hancement	21/12/2018	22/12/2018	21	4

No file uploaded.

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Web Application Deveplopment	28	01/09/2018	08/09/2018	8
Imtroduction to Robotics	35	18/01/2019	19/01/2019	02
Internet of Things	56	26/10/2018	03/11/2018	8
Public policy Research	23	27/06/2019	27/06/2019	01

Importance of thinking big in life 42 18/12/2018 18/12/2018 01 Induction programme for students 2 06/07/2018 08/07/2018 03 Paculty Development programme 47 08/07/2019 13/07/2019 06 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): Teaching Non-teaching 06 Permanent Full Time Permanent Full Time Students 6 6 11 11 6.3.5 - Welfare schemes for Students scholarship(Silicon Werit, Silicon Employee) GHI, EPF, Own your vehicle, home SEI_Own your Vehicle scheme, Own your Home, EPF Students 6.4 - Financial Management and Resource Mobilization 6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each) Moetly conducted by a firm which is submitted to various agencies It is uploaded in the institution website for transparency. 6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III) Name of the ong overnment funding agencies // Modi/Grants received in Rs. Purpose 0 0 0 00 0		Initiaves								
Induction 2 06/07/2018 08/07/2018 03 programme for students 3 08/07/2018 03 03 Faculty 47 08/07/2019 13/07/2019 06 bevelopement programme No file uploaded. 63.4 - Faculty and Staff recruitment (no. for permanent recruitment): Non-teaching Non-teaching Permanent Full Time Permanent Full Time Full Time 6 6 11 11 63.5 - Welfare schemes for GHI, EFF, Own your vehicle, home ESI, Own your Vehicle scheme, Own your Home, EFF Students 6.4 - Financial Management and Resource Mobilization 64.1 - Institution conducts internal and external financial audits regularly (with in 100 words each) Mostly conducted by a firm which is submitted to various agencies like I T dept, banks. Internal audit is mostly done by the finance committee as per UGC notification.rt is conducted in a transparent way and submitted to various approval and accreditating agencies.It is uploaded in the institution website for transparency. 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 Name of the non government funding agencies /individuals		Importance of thinking big in life	42		18/12/2018		18/12/2018		8	01
Faculty 47 08/07/2019 13/07/2019 06 Development programme No file uploaded. 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): Non-teaching Non-teaching Permanent Full Time Permanent Full Time Full Time 6 6 11 11 6.3.5 - Welfare schemes for GHI, EPF, Own your vehicle, home ESI, Own your Vehicle scheme, Own your Uehicle scheme, Own your Uehicle scholarship(Silicon 6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each) Mostly conducted by a firm which is submitted to various agencies like I T dept, banks. Internal audit is mostly done by the finance committee as per UGC notification.It is conducted in a transparent way and submitted to various approval and accreditating agencies.it is uploaded in the institution website for transparency. 6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Critterion III) Name of the non government funcing agencies /individuals Funds/ Grants received in Rs. Purpose 00 0 00 00 00 00 00 00 00 00 00 00 00		Induction programme for students	2		06/0	7/2018	08/07/2018		.8	03
No file uploaded. 63.4 - Faculty and Staff recruitment (no. for permanent recruitment): Teaching Non-teaching 9 Permanent Full Time Permanent Full Time 6 6 11 11 63.5 - Welfare schemes for Image: Students Students GHI, EEF, Own your vehicle, home Scheme, Own your Home, Merit, Silicon Employee) Scheme, Own your Home, Merit, Silicon Employee) 64.1 - Institution conducts internal and external financial audits regularly (with in 100 words each) Mostly conducted by a firm which is submitted to various agencies like I T Mostly conducted by a firm which is submitted to various agencies like I T dept, banks. Internal audit is mostly done by the finance committee as per UGC notification. It is conducted in a transparent way and submitted to various approval and accreditating agencies. It is uploaded in the institution website for transparency. 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/ Grants received in Rs. Purpose 00 0 00 00 00 00 00 00 00 00 00 00 00 00		Faculty Developement programme	47		08/0	7/2019	13	8/07/201	.9	06
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 Image: Scheme (Students) Students GHI, EEF, Own your vehicle, home ESI, Own your Vehicle scheme, Own your Home, DEFF Scholarship(Silicon Merit, Silicon Employee) 6.4 - Financial Management and Resource Mobilization 6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each) Mostly conducted by a firm which is submitted to various agencies like I T dept, banks. Internal audit is mostly done by the finance committee as per UGC notification. It is conducted in a transparent way and submitted to various approval and accreditating agencies. It is uploaded in the institution website for transparency. 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/ Grants received in Rs. Purpose 00 0 00 00 No file uploaded. 6.4.3 - Total corpus fund generated Total corpus fund generated Total corpus fund generated 6.5.1 - Whether Academic and Administrative Audit (AAA) has been done? Internal Audit Team <td></td> <td colspan="9">No file uploaded.</td>		No file uploaded.								
Teaching Non-teaching Permanent Full Time Permanent Full Time 6 6 11 11 6.3.5 – Welfare schemes for Image: Students Students GHI, EFF, Own your vehicle, home Sell, Own your Vehicle scheme, Own your Home, EFF Scholarship (Silicon Merit, Silicon Employee) 6.4 – Financial Management and Resource Mobilization 6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each) Mostly conducted by a firm which is submitted to various agencies like I T dept, banks, Internal audit is mostly done by the finance committee as per UGC notification. It is conducted in a transparent way and submitted to various ageroval and accreditating agencies. It is uploaded in the institution website for transparency. 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/ Grants received in Rs. Purpose 00 0 00 00 00 00 0 00 00 00 0.5.1 – Whether Academic and Administrative Audit (AAA) has been done? Internal Audit Team appointed by EXTERNAL EX	6	6.3.4 – Faculty and Stat	ff recruitment (r	no. for p	ermanent re	ecruitment):				
Permanent Full Time Permanent Full Time 6 6 11 11 6.3.5 - Welfare schemes for Image: Schemes for Students GHI, EFF, Own your vehicle, home ESI,Own your Vehicle scheme, Own your Home, EFF Scholarship(Silicon Merit, Silicon Employee) 6.4 - Financial Management and Resource Mobilization 6.4.1 - Institution conducts internal and external financial audits regularly (with in 100 words each) Mostly conducted by a firm which is submitted to various agencies like I T dept, banks, Internal audit is mostly done by the finance committee as per UGC notification. It is conducted in a transparent way and submitted to various approval and accreditating agencies. It is uploaded in the institution website for transparency. 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 00 0 00 00 00 00 6.5.1 - Underther Academic and Administrative Audit (AAA) has been done? Audit Type External Internal Mait Type External Internal Audit Team appointed by EXTERNAL EXTERNAL EXTERNAL Yes Internal Audit Team appointed by IQAC IQAC			Teaching					Non-tea	aching	J
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2	Administrativ	7e Yes		Pa: Univer	rent		Yes	Internal Audit Team		
				IQAC(exte	By an rnal			appointed by IQAC		
				expe	ert)					
6.5	5.2 – Activities an	d support from the	Parent	– Teacher A	ssociation	(at least	three)			
	 .1- Suggestions from parents are given top priority while implementing policy 2-Constructive suggestions are considered and put before IQAC and other committee meetings. 3- Efforts are taken to get active support from parents from their field of expertise. 									
6.ť	5.3 – Developmer		support	staff (at lea	st three)	01010	•			
	1- More coverage under EST scheme 2-Proposal under active consideration for									
\$	some retirement benefit like gratuity 3- Focus on some work related incentives during service									
6.5	6.5.4 – Post Accreditation initiative(s) (mention at least three)									
	1- Improvement in teaching learning by adopting different methodology looking at the intake of students. 2- Upgrade various quality parameters for getting NBA accreditation for 6 yrs. 3- Attracting students for the PG program with									
	more thr	ust on resear	ch bas	sed curri	culum an	nd the	ir placemen	t aspects.		
6.5	5.5 – Internal Qua	ality Assurance Sys	tem Det	tails						
	a) Submise	sion of Data for AIS	6HE por	tal			Yes			
	b)	Participation in NIR	F		Yes					
		c)ISO certification					No			
	d)NBA	or any other quality	y audit				Yes			
6.5	5.6 – Number of C	Quality Initiatives un	dertake	n during the	e year					
	Year	Name of quality initiative by IQAC	D: conduc	ate of cting IQAC	Duration	From	Duration To	Number of participants		
	2018	Process of Accreditatio n and Assessment	05/	02/2018	05/02/	/2018	06/02/20	18 42		
	2019	Role of Teachers towards Autonomy	14/	05/2019	14/05/	/2019	15/05/20	19 32		
				No file	uploaded	1.		÷		
CF		INSTITUTIONA	L VAL	UES AND	BEST PF	RACTIO	ES			
7.1	- Institutional	Values and Socia	l Resp	onsibilities	8					
7.′ yea	1.1 – Gender Equ ar)	ity (Number of gene	der equ	ity promotio	n programn	nes orga	inized by the in	stitution during the		
	Title of the programme	Period fro	m	Perio	iod To Number of Participants			Participants		
							emale	Male		
	Gender Equality	08/03/2	019	08/0	3/2019		47	25		

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										
Use of alternative source of energy like solar power, cleanliness drive, campus connect programme, plantation drive. Energy audit annually by Green Club										
7.1.3 – Differently abled (Divvangian) friendliness										
Item facilities Yes/No Number of beneficiaries										
Physic	cal facili	ties		Y	'es			2		
Provi	sion for l	ift		Y	es			4		
R	lest Rooms			У	es			11		
Spo deve diffe s	ecial skil lopment for rently able students	l r ed		У	Yes			2		
7.1.4 – Inclusio	on and Situated	dness								
Year	Number of initiatives to address locational advantages and disadva ntages	Number initiative taken t engage v and contribut local commur	r of es with e to	Date	Duration Name o initiative		ame of itiative	Issues addressed	Number of participating students and staff	
2018	1	1		22/11/2 018	01	C r d	leanli ness rive	Awareness	24	
2019	1	1	1 17/10/ 019		01	computer literacy		Education	35	
				No file	uploaded.					
7.1.5 – Human	Values and P	rofessiona	al Eth	nics						
	Title			Date of pu	ublication		Foll	ow up(max 10	0 words)	
		No D	ata	Entered/Ne	ot Applica	ble	111			
7.1.6 – Activitie	es conducted for	or promot	ion o	f universal Val	ues and Ethics	3				
Acti	vity	Du	ratio	n From	Durati	on To	D	Number of	participants	
Ethics cult	in work ure	1	0/0	5/2019	10/0	5/20)19	1	.25	
Life s profess	kill for sionals	0	5/0	1/2020	05/0	1/20)20		52	
				No file	uploaded.					
7.1.7 – Initiativ	es taken by the	e institutio	n to i	make the cam	ous eco-friend	ly (at	least five)		
LED light awareness	cs, plantat campaign,	cion dra regula:	ive, r en	waste man Nergy audit	agement, G s, install	Bree Lati	n club on of r	with envir coof top so	conmental blar cells	
7.2 – Best Pra	ctices									
7.2.1 – Describ	be at least two	institution	al be	st practices						

1-The quest for good technical education with a social look and human value 2-Participatory management and work culture 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. Silicon Incubation Centre 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-Faculty Relationships • Building Industry Focused Technology Value Stream • Employment Generation • Enable Automation in the Local Market Examination Process in Silicon • 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 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. 2. Preparation: To prepare the students to excel in various educational programs or to succeed in industry / technical profession through further education/training 3. Core Competence: To provide the students with a solid foundation in mathematical, scientific and fundamentals required to solve related problems, keeping in line with the global emphasis on STEM (Science,

Technology, Engineering, and Mathematics). 4. Breadth: To train the students with a breadth of scientific and knowledge to comprehend, analyze, design and create novel products and solutions for real life problems. 5. Professionalism: To inculcate in the students professional/ethical attitude, effective team work skills, multidisciplinary approach and to relate issues to a broader context. 6. Learning Environment: To provide the students with academic environment of excellence, leadership, ethical guidelines and life-long learning needed for a long/productive career. Curriculum Structure • The college has a well-developed action plan for effective implementation of curriculum by making mandatory provision of developing and upgrading the Course File and Lesson Plan. The curriculum is geared to facilitate entry to further higher education as well as employment and self-employment. • Though all the programmes of study at both UG PG are self-financing, the Institution is conducting value added / add-on programmes for the benefit of students. • ICT enabled teaching learning methods are in implementation in the institution with more courses added every year. Guest faculty members / Experts from Industry in relevant subjects are invited to the institution for better teaching learning process. • There is a continuous assessment of teachers by the students as per the prescribed guideline of the institution. There is a feedback mechanism to get information from employers about the quality of graduates and desired attributes of the student graduates. • The final year students of the undergraduate courses in engineering are allowed to take up project work in different industries/organization to have hands on training on Industrial practices, which also help them in campus placement. . Institution has introduced needbased courses for preparing students for Industrial requirements.

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

http://www.silicon.ac.in

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

To provide best of technical education with a human look. 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 • 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 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:

Provide the weblink of the institution

https://silicon.ac.in/wp-content/uploads/2021/10/SIT-Academic-Rules-Regulations-2020-21-v2.pdf

8. Future Plans of Actions for Next Academic Year

1-To open course in emerging fields like Data Science, Machine Learning 2- To have a holistic approach towards issues of national importance 3-To devise yearly action plan for each academic department and execute it in line with institutional vision and mission 4- To develop an interdisciplinary research culture. Effective student centric learning process. 2-Inducing research culture 3-Promoting skill-based courses 4-More emphasis on skill based courses 5-Emphasis on innovation and strat ups 6- Post NBA Accreditation works Improvement in various quality parameters like increase in the number of all clear subjects and average SGPA. Substantial increase in the number of good Publications. More multidisciplinary projects undertaken under SRPS. Conduction of skill-based invited TALKS Workshops at the department level Nore awards and recgnition for students in national level Involvement of faculties in preparing good number of teaching materials. Effective student centric learning process. 2-Inducing research culture 3-Promoting skill-based courses. 4-Galvanising the efforts to apply for funded research. • Academic Autonomy • Centre of excellence and accreditation of all departments • Global Curriculum with Industry Oriented innovative electives • All round learning and development for students • To achieve faculty cadre ratio with 80 Ph.D. • Improving the success rate in University result and other exam like UPSC/OPSC/GATE/CAT/XAT • Enhancement of placement to 100 • Collaboration with academically advanced institutes • Development of an advanced communication skills center in language and personality development • Roof-Top solar installations