

The Annual Quality Assurance Report (AQAR) 2015-16

Submitted By



Silicon Institute of Technology
Silicon Hills, Patia, Bhubaneswar-751024

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The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

Part – A

AQAR for the year (for example 2013-14)

2015-16

I. Details of the Institution

1.1 Name of the Institution

Silicon Institute Of Technology

1.2 Address Line 1

Silicon Hills

Address Line 2

Patia

City/Town

Bhubaneswar

State

Odisha

Pin Code

751024

Institution e-mail address

director@silicon.ac.in

Contact Nos.

9337360061

Name of the Head of the Institution:

Dr. Rabindra Kumar Patnaik

Tel. No. with STD Code:

9937289499

Mobile:

9437023327

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 NAAC Track ID (For ex. MHCOGN 18879)

OR

1.4 NAAC Executive Committee No. & Date:
(For Example EC/32/A&A/143 dated 3-5-2004.
This EC no. is available in the right corner- bottom
of your institution's Accreditation Certificate)

1.5 Website address:

Web-link of the AQAR:

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.04	2014	5 YEARS
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR ___2012-13 submitted to _NAAC on 7/10/2013_____ (DD/MM/YYYY)4
- ii. AQAR__13-14__submitted to NAAC on 5/10/2014_____ (DD/MM/YYYY)
- iii. AQAR__14-15__submitted to NAAC ON 14/7/2015_____ (DD/MM/YYYY)
- iv. AQAR_____ (DD/MM/YYYY)

1.9 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.10 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.11 Name of the Affiliating University (for the Colleges)

Biju Patnaik University Of
Technology, Rourkela, Odisha

1.12 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University	<input type="text" value="NO"/>		
University with Potential for Excellence	<input type="text" value="NO"/>	UGC-CPE	<input type="text" value="NO"/>
DST Star Scheme	<input type="text" value="NO"/>	UGC-CE	<input type="text" value="NO"/>
UGC-Special Assistance Programme	<input type="text" value="NO"/>	DST-FIST	<input type="text" value="NO"/>
UGC-Innovative PG programmes	<input type="text" value="NO"/>	Any other (<i>Specify</i>)	<input type="text" value="NO"/>
UGC-COP Programmes	<input type="text" value="NO"/>		

2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="8"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="1"/>
2.3 No. of students	<input type="text" value="1"/>
2.4 No. of Management representatives	<input type="text" value="3"/>
2.5 No. of Alumni	<input type="text" value="1"/>
2.6 No. of any other stakeholder and Community representatives	<input type="text" value="1"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="1"/>
2.8 No. of other External Experts	<input type="text" value="1"/>
2.9 Total No. of members	<input type="text" value="17"/>
2.10 No. of IQAC meetings held	02 per year

2.11 No. of meetings with various stakeholders: No. Faculty

Non-Teaching Staff Students Alumni Others

2.12 Has IQAC received any funding from UGC during the year? Yes No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos. International National State Institution Level

(ii) Themes

2.14 Significant Activities and contributions made by IQAC

- Standard guidelines for teachers to prepare lesson plans,
- model question & answers & course handouts with prog. objectives

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year *

Plan of Action	Achievements
<ul style="list-style-type: none">• Effective student centric learning	<ul style="list-style-type: none">• Improvement in various quality parameters.

* Attach the Academic Calendar of the year as Annexure.

2.15 Whether the AQAR was placed in statutory body Yes No

Management Syndicate Any other body

Provide the details of the action taken

- Functioning of IQAC cell ,
- Go for NBA accreditation,
- Quality enrichment courses by visiting faculty & industry.
- Soft skill courses

Part – B

Criterion – I

I. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD				
PG	04	0	04	
UG	05	0	05	
PG Diploma				
Advanced Diploma				
Diploma				
Certificate				
Others				
Total	09	0	09	
Interdisciplinary				
Innovative				

- 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options
 (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	09
Trimester	
Annual	

1.3 Feedback from stakeholders* Alumni Parents Employers Students
 (On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

**Please provide an analysis of the feedback in the Annexure*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

- | |
|--|
| <ul style="list-style-type: none"> • Any change/revision done by university in every three years • Choice based credit system introduced • Choice for Honours and minor subjects introduced • Skill development courses in second year • Full Industrial tour with course work in the 8th semester |
|--|

1.5 Any new Department/Centre introduced during the year. If yes, give details.

No

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	166	129	30	7	

11

2.2 No. of permanent faculty with Ph.D.	30
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2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	129		30		7				166	

2.4 No. of Guest and Visiting faculty and Temporary faculty		04	
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2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	15	146	41
Presented papers	06	32	
Resource Persons	03	12	11

2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Non –negotiable academic calendar,
- student centric learning methods followed,
- faculty advisory system in place

2.7 Total No. of actual teaching days during this academic year	178
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2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

- Conduction, evaluation,
- result in time & through erp

2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop	10		
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2.10 Average percentage of attendance of students	80
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2.11 Course/Programme wise
distribution of pass percentage :

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
AEI	68	21	33	1		80
CSE	143	52	53	2		75
EEE	139	56	58	1		83
ECE	203	84	75			79
IT	57	16	38			94
MCA	55	31	22			96

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes :

- Career counselling,
- regular action taker report on feedback ,
- more innovative ideas in teaching& learning process

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	
UGC – Faculty Improvement Programme	
HRD programmes	34
Orientation programmes	29
Faculty exchange programme	05
Staff training conducted by the university	27
Staff training conducted by other institutions	05
Summer / Winter schools, Workshops, etc.	67
Others	

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	191			
Technical Staff	44		02	

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- Establishment of SRPS,
- Incentive for paper publication,
- research cell ,
- research allowance

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number				
Outlay in Rs. Lakhs				

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number				
Outlay in Rs. Lakhs				

3.4 Details on research publications

	International	National	Others
Peer Review Journals	03	11	
Non-Peer Review Journals	06	38	
e-Journals	03	15	
Conference proceedings	03	12	

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects				
Minor Projects	15-16	DST	3,50,000	3,50,000
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	15-16	SIT	38,49,000	38,49,000
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)				
Total				

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP CAS DST-FIST
 DPE DBT Scheme/funds

3.9 For colleges

Autonomy CPE DBT Star Scheme
 INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	01	04			05
Sponsoring agencies	AICTE,OITS	DST, Institution			

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International National Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :

From funding agency From Management of University/College

Total

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	
	Granted	
International	Applied	
	Granted	
Commercialised	Applied	
	Granted	

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College

3.18 No. of faculty from the Institution who are Ph. D. Guides
and students registered under them

06

10

3.19 No. of Ph.D. awarded by faculty from the Institution

0

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF SRF Project Fellows Any other

3.21 No. of students Participated in NSS events:

University level State level

National level International level

3.22 No. of students participated in NCC events:

University level State level

National level International level

3.23 No. of Awards won in NSS:

University level State level

National level International level

3.24 No. of Awards won in NCC:

University level State level

National level International level

3.25 No. of Extension activities organized

University forum College forum
NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Blood donation camp, Yoga classes for staffs & students
- Green club

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	18.376 acr			
Class rooms	5034.15m			
Laboratories	6026.46m			
Seminar Halls				
No. of important equipments purchased (\geq 1-0 lakh) during the current year.	03 (Photo Copier), Elevator (03)	01 (Photo Copier) Elevator (03) Solar Power Unit (01)		(04, 05, 01)
Value of the equipment purchased during the year (Rs. in Lakhs)				
Others				

4.2 Computerization of administration and library

- ERP system fully operational in administration, library including attendance,
- issue & deposit of books, digital library with all facilities

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	801	270525	443	167056	1244	437581
Reference Books	289	99348	131	121807	420	221155
e-Books						
Journals	140	138145	78	78418	218	216563
e-Journals	3	1589964	2	1278353	5	2868317
Digital Database						
CD & Video	100		50		150	
Others (specify)journals			119	31835		

4.4 Technology up gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	791	428	54			54	245	
Added	0	0	0			0	0	
Total	791	428	54			54	245	

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

- Internet access to all staffs & students
- training for Fics & all other Hods regularly for technology

4.6 Amount spent on maintenance in lakhs :

i) ICT	1303427
ii) Campus Infrastructure and facilities	9786141
iii) Equipments	2413783
iv) Others	2123558
Total :	15626909

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- IQAC monitors functioning of each cell related to student activities & facilities in its regular meetings,
- Takes stock of the detailed facilities provided & methods to improve them.

5.2 Efforts made by the institution for tracking the progression

- Each student facility cell is headed by a senior faculty,
- action initiated, suggestions made are discussed in regular executive & academic council meetings

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2011	20		

(b) No. of students outside the state

129

(c) No. of international students

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Men	No	%	Women	No	%

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total

Demand ratio

Dropout %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- Pre placement training for 5th semester students,
- GATE preparatory classes for students/ soft skill courses

No. of students beneficiaries

685

5.5 No. of students qualified in these examinations

NET SET/SLET GATE CAT
 IAS/IPS etc State PSC UPSC Others

5.6 Details of student counselling and career guidance

- Campus connect programme,
- industry interface,
- pre placement classes
- Skill Development courses
- Industrial tour including internship

No. of students benefitted

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
13	625	493	49

5.8 Details of gender sensitization programmes

- Programmes on girl education,
- women empowerment

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports : State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	12	144000
Financial support from government	633	8460950
Financial support from other sources		
Number of students who received International/ National recognitions		

5.11 Student organised / initiatives

Fairs : State/ University level National level International level
 Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: _____

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

- To become a centre of excellence in the field of technical education and research.
- To provide the best of technical skills, professional ethics and human values

6.2 Does the Institution has a management Information System

- Yes, participatory administrative structure maintained,
- processed and addressed through ERP

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Curriculum is designed by the university but suggestions from each department collected and

6.3.2 Teaching and Learning

- ICT extensively used,
- NPTL used,
- further action taken based on student feedback

6.3.3 Examination and Evaluation

- Continuous internal assessment done as per university norms & result intimated to parents through SMS/ERP

6.3.4 Research and Development

- Research committee monitors research programmes

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Use of ICT in education,
- e-library,
- more budgetary support for maintenance & infrastructure

6.3.6 Human Resource Management

- Welfare schemes for staffs,
- various training programs for staffs

6.3.7 Faculty and Staff recruitment

- Recruitment process through advertisement, scrutiny,
- transparent interview by board

6.3.8 Industry Interaction / Collaboration

- Collaboration with Sankalp semiconductor & Perfectus,
- USA for technological consultancy

6.3.9 Admission of Students

- Admission according to the guidelines of state govt/AICTE/JEE(Main)

6.4 Welfare schemes for

	EPF, laptop & vehicle scheme
Non teaching	EPF,. ESI, Laptop & vehicle scheme
Students	Institutional scholarship

6.5 Total corpus fund generated

6.86 cr

6.6 Whether annual financial audit has been done

Yes

No

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	yes		yes	
Administrative	yes		yes	

6.8 Does the University/ Autonomous College declares results within 30 days?

For UG Programmes

Yes

No

For PG Programmes

Yes

No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

- More transparent & continuous evaluation,
- question bank for students
- E-examination including seating arrangement, online questions, e-evaluation of the answer copies

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

- University encourages for autonomy

6.11 Activities and support from the Alumni Association

- Various suggestions from alumni are discussed and actions taken
- Alumni are invited to talk to the students for career guidance

6.12 Activities and support from the Parent – Teacher Association

- Parents meet once in December
- Various issues discussed and implemented involving teachers
- Parents are members of IQAC, Anti-ragging committee
- All parents are invited to various programs such as orientation, annual function

6.13 Development programmes for support staff

- Various training programmes are organised.
- Soft Skill programs organized

6.14 Initiatives taken by the institution to make the campus eco-friendly

- Green club established to look at various environmental issues

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

- Thrust on ICT enabled courses and ITC competency,
- short term courses for technical skill development
- Remedial classes for weaker students

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

- Successful implementation of various measures is discussed and various follow up actions taken

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

- Bridge/remedial classes for academically poor ,
- lateral entry and reserved students/ ICT based learning

**Provide the details in annexure (annexure need to be numbered as i, ii,iii)*

7.4 Contribution to environmental awareness / protection

- Green club,
- Environmental awareness programmes

7.5 Whether environmental audit was conducted ?

Yes

No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

- To attract good students,
- more research projects, more industry-academia interactions

8. Plans of institution for next year


To achieve academic autonomy

Name Dr.Siba Sankar Nayak



Signature of the Coordinator, IQAC

Name Dr.Rabindra Kumar Patnaik



Signature of the Chairperson, IQAC

Annexure I

1. Action Taken Report on Feedback

- 1) The feedback from students is discussed in details in appropriate forum and some positive action is taken.
- 2) A proper counselling is done for some faculties with external subject experts.
- 3) Some faculties are warned and some are put into task.
- 4) Faculties are advised to go for refresher courses and take remedial classes for students.
- 5) As a strong action some financial benefits for affected faculties are withdrawn.

AS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission
