Sri Sivasubramaniya Nadar College of Engineering

Rajiv Gandhi Salai (OMR)
Kalavakkam – 603 110
Kanchipuram Dist.

Annual Quality Assurance Report (AQAR)
of the IQAC for 2013 - 14

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
P.O. Box No. 1075
Nagarbhavi
Bangalore – 560072

The Annual Quality Assurance Report (AQAR) of the IQAC for 2013-14

PART – A

AQAR for the year

2013 - 14

1. Details of the Institution

1.1 Name of the Institution

Sri Sivasubramaniya Nadar College of Engineering

1.2 Address Line 1

Rajiv Gandhi Salai (OMR)

Address Line 2

Kalavakkam – 603 110

City/Town

Kalavakkam

State

Tamil Nadu

Pin Code

603 110

Institution e-mail address

info@ssn.edu.in

Contact Nos.

044-27469700

Name of the Head of the Institution:

Dr. S. Salivahanan

Tel. No. with STD Code:

044-27469752

Mobile:

09444189433

Name of the IQAC Coordinator: Dr. Srinivas Gumparthi

Mobile: 09444104060

IQAC e-mail address: ssniqac@ssn.edu.in

1.3 **NAAC Track ID** *(For ex. MHCOGN 18879)*

OR   TNCOGN14229

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: www.ssn.edu.in

Web-link of the AQAR: http://www.ssn.edu.in/wp-content/uploads/2016/03/AQAR 2013-14.pdf

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1st Cycle	A	3.13	2011	5 Years
2	2nd Cycle				
3	3rd Cycle				
4	4th Cycle				

1.7 Date of Establishment of IQAC :   01.07.2011

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

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 ☐
       (AICTE)

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)*   Anna University, Chennai

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

Autonomy by State/Central Govt. / University   Applied for Autonomous and University Status

University with Potential for Excellence		UGC-CPE	
DST Star Scheme		UGC-CE	
UGC-Special Assistance Programme		DST-FIST	
UGC-Innovative PG programmes		Any other (*Specify*)	
UGC-COP Programmes			

2. IQAC Composition and Activities

2.1 No. of Teachers	9
2.2 No. of Administrative/Technical staff	5
2.3 No. of students	2
2.4 No. of Management representative	1
2.5 No. of Alumni	2
2. 6 No. of any other stakeholder and community representatives (parent)	1
2.7 No. of Employers / Industrialists	1
2.8 No. of other External Experts	1
2.9 Total No. of members	22
2.10 No. of IQAC meetings held	1

2.11 No. of meetings with various stakeholders: No. | 1 | 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 | | Yes [ ]   No [✓]

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 | 2 |

(ii) Themes

> 1. Special Lecture on "Quality Management"
> 2. Workshop on "Communication Skills"

2.14 Significant Activities and contributions made by IQAC

> 1. Regular internal audits (twice in a year)
> 2. ISO 9001:2015 Quality standards awareness programmes

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
Risk Management Process	Risk Management Process is included in the scope of internal audits. Successfully completed Risk Assessment department wise
ISO 9002:2015 Standards implementation	Standards implementation was successfully completed
Quality Management Group	Awareness program is conducted on internal audit on ISO 9001:2015

2.16 Whether the AQAR was placed in statutory body   Yes [✓]   No [ ]

Management [✓]   Syndicate [ ]   Any other body [ ]

Provide the details of the action taken

AQAR report for 2013-14 was placed in the Governing Council meeting and approved.

PART – B

Criterion – I

1. 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
Ph.D.	9	1	10	-
PG	9	1	10	-
UG	8	-	8	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	26	2	28	-

Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: CBCS ☐ Core ✔ Elective option ✔ Open options ☐

(ii) Pattern of programmes:

Pattern   Number of programmes

Semester   All the programmes are of Semester pattern

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.

> Anna University has released new regulation in 2013-14
>
> Salient features of Regulation 2013-14
>
> 1. New Courses introduced in all branches of engineering and management
> 2. Syllabus updated on the basis of current trends in the industry
> 3. New electives and specialisation introduced in engineering and management programmes
>
> Many of our faculty are members in Board of Studies / Academic Council of the university during the revision

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

> M.E. in Energy Engineering
>
> Department of Mechanical Engineering has been recognized as Research Centre by Anna University.

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
268	150	67	51	-

2.2 No. of permanent faculty with Ph.D.

139

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
25	6	10	3	1	2	-	-	36	11

2.4 No. of Guest and Visiting faculty and Temporary faculty

12

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	95	99	34
Presented papers	130	75	7
Resource Persons	32	42	20

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

- Campus wide Wireless Networking, e-learning, digital library, mentoring, funding for innovative projects for faculty and students

- An intranet portal is available, in which faculty members will upload power-point presentation, teaching materials, question bank, etc.

2.7 Total No. of actual teaching days during this academic year

180

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

Not Applicable

2.9 No. of faculty members involved in curriculum
    restructuring/revision/syllabus development
    as member of Board of Study/Faculty/Curriculum Development workshop

| 24 |

2.10 Average percentage of attendance of students

| 89.4 |

2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
UG Programmes						
B.E. (EEE)	145	5.5	86.7	4.8	0	97
B.E. (ECE)	145	17.2	73.1	2.8	0	93.1
B.E. (CSE)	149	15.4	65.8	5.4	0	86.58
B. Tech. (IT)	148	5.4	75.7	6.8	0	87.84
B.Tech- (Chemical)	36	33.3	66.6	0	0	100
B.E. (BME)	63	9.5	90.4	0	0	100
B.E. (Mechanical)	73	23.28	61.64	0	0	84.93
B.E. (Civil)	0	0	0	0	0	0
PG Programmes						
M.E. (PED)	18	33.33	61.11	0	0	94.4
M.E. (AE)	18	16.7	83.3	0	0	100
M.E. (CS)	34	32.4	64.7	2.9	0	100
M.E. (VLSI)	36	30.5	69.5	0	0	100
M.E.(CSE)	34	11.7	85.3	0	0	97.06
M.E.(S/W Engg.)	17	23.5	64.7	5.9	0	94.12
M.E. (Comp. & Commn.)	18	5.6	83.3	0	0	88.88
M.E (Mfg. Engg.)	18	66.67	33.34	0	0	100
MBA	108	1	80.6	11.1	0	91.7

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

 Each student is assigned a mentor who monitors the progress of the students under him and offers guidance. Class Committees are formed in each department for quality enhancement in teaching and learning process. The Class Committees monitor the progress of Teaching and Learning at the Class level. The Heads of departments monitor the progress of students after each of the three Internal Assessment Test Cycles. The students needing improvement and support are taken care of by the assigned Mentors. The IQAC sets the guidelines for the process of these internal monitoring and reviews at the end of every semester. Based on pass percentage, University ranks and placement statistics, required changes are suggested by IQAC.

2.13 Initiatives undertaken towards faculty development

Faculty / Staff Development Programmes	Number of faculty benefitted
Refresher courses	5
UGC – Faculty Improvement Programme	1
HRD programmes	0
Orientation programmes	4
Faculty exchange programme	0
Staff training conducted by the university	8
Staff training conducted by other institutions	22
Summer / Winter schools, Workshops, etc.	234
Others	0

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	64	-	-	-
Technical Staff	68	-	2	-

Criterion – III

3. Research, Consultancy and Extension

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

The IQAC has been instrumental in initiating the Funding for Innovative Proposals Scheme(FIPS) to promote research culture among students and faculty. Dean (Research) calls for proposals from both students and faculty. The proposals received are scrutinised internally and then by a committee consisting of internal and external research experts. The most promising proposals are then funded by the SSN. Student projects are funded upto Rs. 30,000 and faculty projects are funded upto Rs.5 lakh per project. Over Rs. 1 crore worth of funding is provided to students and faculty every year. This scheme has been successful in generating interest among the students towards research and has led to even UG students publishing in international journals.

3.2   Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	7	14	10	48
Outlay in Rs. Lakhs	102.9	288.76	637.9	1495.14

3.3   Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	4	7	10	14
Outlay in Rs. Lakhs	10.9	26	21.6	26.85

3.4   Details on research publications

	International	National	Others
Peer Review Journals	233	4	-
Non-Peer Review Journals	32	0	-
e-Journals	-	-	-
Conference proceedings	236	57	-

3.5 Details on Impact factor of publications:

Range [Upto 4.01] Average [0.27] h-index [17] Nos. in SCOPUS [169]

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

Department wise

EEE

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects		AICTE		16.02
		AICTE		0.88
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	2013-2014	SSN Trust	8.00	1.37
Students research projects	2013-2014	SSN Trust	1.26	1.09
Any other(Specify)				
Total			9.26	19.36

ECE

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakh)	Received (in lakh)
Major projects	2014-2019	DST FIST	50.00	24.50
	2013-2017	MCIT	77.00	21.13
	2013-2015	DRDO	30.47	1.97
		INTEL		2.50
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	2013-2014	SSN Trust	13.50	9.96
Students research projects	2013-2014	SSN Trust	2.34	1.91
Any other(Specify)				
Total			173.30	61.30

CSE

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects				
Minor Projects	2013-2014	Chellammal Agro	0.25	0.25
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects	2013-2014	SSN Trust	0.45	0.26
Any other(Specify)				
Total			0.70	0.51

IT

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in Lakhs)	Received (in Lakhs)
Major Projects		DRDO		2.99
		DIT, MCIT		21.13
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	2013-2014	SSN Trust	0.60	0.46
Students research projects				
Any other(Specify)				
Total			0.60	24.60

Chemical

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects				
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	2013-2014	SSN Trust	5.00	4.50
Students research projects	2013-2014	SSN Trust	0.58	0.25
Any other(Specify)				
Total			5.58	4.75

BME

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects				
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	2013-15	SSN Trust	6.00	2.81
Students research projects	2013-15	SSN Trust	0.75	0.75
Any other(Specify)				
Total			6.75	3.56

Mechanical

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects	2013-16	AICTE under IIPC and DST	20.26	
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the College	2013-15	SSN Trust	6.50	3.76
Students research projects	2013-14	SSN Trust	2.30	1.85
Any other(Specify)				
Total			29.06	5.61

Civil

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects				
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects	2013-14	SSN Trust	1.25	1.25
Any other(Specify)				
Total			1.25	1.25

S&H

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects	2013-2015	AERB	5.81	5.42
Minor Projects				
Interdisciplinary Projects				

Industry sponsored				
Projects sponsored by the University/ College	2013-2014	SSN Trust	4.00	05.60
Students research projects				
Any other(Specify)				
Total			9.81	11.02

3.7 No. of books published   i) With ISBN No. | 11 | Chapters in Edited Books | 0 |

ii) Without ISBN No. | 0 |

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 | 1 | CE | - | Any Other (specify) | 1 |

3.10 Revenue generated through consultancy | Rs. 2,90,900 |

3.11 No. of conferences organized by the Institution

ECE

Level	International	National	State	University	College
Number		1			
Sponsoring agencies		SSN Trust			

IT

Level	International	National	State	University	College
Number		1			
Sponsoring agencies		Cognizant Technology Solutions, SSN Trust			

Chemical

Level	International	National	State	University	College
Number	1	3			
Sponsoring agencies	SSN Trust	SSN Trust			

Chemistry

Level	International	National	State	University	College
Number			1		
Sponsoring agencies			SSN Trust		

3.12 No. of faculty served as experts, chairpersons or resource persons **11**

3.13 No. of collaborations   International **3**   National **85**   Any other **-**

3.14 No. of linkages created during this year   **6**

3.15 Total budget for research for current year in lakhs :

From Funding agency   **Rs.119 Lakh**   From Management of University/College   **Rs. 195 Lakh**

Total   **Rs. 314 Lakh**

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	4
	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
27	1	10	4	0	0	12

3.18 No. of faculty from the Institution   **73**
   who are Ph. D. Guides
   and students registered under them   **215**

3.19 No. of Ph.D. awarded by faculty from the Institution   **16**

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

JRF **19**   SRF **-**   Project Fellows **6**   Any other **0**

3.21 No. of students Participated in NSS events:

University level **20**   State level **10**

National level **3**   International level **-**

3.22 No. of students participated in NCC events: Not Applicable

University level **-**   State level **-**

National level **-**   International level **-**

3.23 No. of Awards won in NSS:

University level | 1 | State level | -
National level | - | International level | -

3.24 No. of Awards won in NCC: Not Applicable

University level | - | State level | -
National level | - | International level | -

3.25 No. of Extension activities organized

University forum | - | College forum | -
NCC | - | NSS | 20 | Any other | -

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

1. Stress management talk (5 October, 2013)
2. Blood Donation Camp in association with Association of Voluntary Blood Donors, Tamilnadu (14 August, 2013)
3. In association with Bhoomi (NGO) cleaned both in-patient and out-patient wards housed in a four storey building at Stanley Hospital, Chennai as part of Joy of Giving week(6 October, 2013)
4. Three Day Village Camp at Mullipakkam (5-7 February, 2014)
5. Campus Clean Up (26 February, 2014)
6. Sports Day Marchpast (27 March, 2014)
7. Free Eye Check Up Camp in association with Vasan Eye Care for students and staff
8. Visit to Orphanage – Arul Illam near Perungulathur
9. Celebrating Life-AIDS Awareness talk for students
10. ALERT – Golden Hour Care and Emergency Response Training for volunteers
11. Orientation Programme for I year B.E./B.Tech. students about YRC

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 (Built-up in Sq.m)	132970	15356	SSN Trust	148326
Class rooms (in Sq.m)	9322 (108 Nos.)	-	SSN Trust	9322 (108 Nos.)
Laboratories (in Sq.m)	17796 (88 Nos.)	-	SSN Trust	17796 (88 Nos.)
Seminar Halls (in Sq.m)	4991 (15 Nos.)	-	SSN Trust	4991 (15 Nos.)
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	1713	430	SSN Trust	2143
Value of the equipment purchased during the year (Rs. in Lakhs)	1325.67	148.19	SSN Trust	1473.86

4.2 Computerization of administration and library

> Koha Software is installed in Central Library which enables campus wide access.
> Administrative Departments are computerised and all faculty members provided with laptops and computers.

4.3 Library services:

	Existing		Newly added		Total	
	No.	Value in Rs.	No.	Value in Rs.	No.	Value in Rs.
Text Books	51429	19,703,879	4987	1,886,092	56416	21,589,971
Reference Books	2634	6,635,023	138	750,071	2772	7,385,094
e-Books	363	115,545	-	-	363	141,484
Journals	173	2,606,858	37	93,142	210	2,700,000
e-Journals	2668	3,005,330	2048	920,935	4716	3,926,265
Digital Database	9	3,120,875	-	-	9	4,067,749
CD & Video	397	197,589	-	-	397	197,589
NPTEL Video	110	100,000	-	-	110	100,000
NPTEL Web Courses	129	100,000	-	-	129	100,000
Book Bank	854	271,620	-	-	854	271,620

4.4 Technology up gradation (overall)

	Total Computers	Computers in Labs	Internet	Browsing Centres	Computer Centres	Office	Depart-ments	Others
Existing	2092	1579	25+25 Mbps	-	24	49	440	-
Added	32	17	20 Mbps	-	-	5	10	-
Total	2124	1596	25+45 Mbps	-	24	54	450	-

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

- Refresher courses and workshops on technology enabled learning conducted every year.

- First year students from rural areas are given an orientation on technology and internet usage.

4.6 Amount spent on maintenance in lakhs :

   i) ICT   Rs. 45 Lakh

   ii) Campus Infrastructure and facilities   Rs. 463 Lakh

   iii) Equipments   Rs. 67 Lakh

   iv) Others   Rs. 18 Lakh

                            Total :   Rs. 592 Lakh

Criterion – V
5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

1. IQAC with the advice from college management and in consultation with the Placement cell discussed strategies to enhance placements for the final year students.
2. The Placement cell explored suitable Training Partner to train the students for campus interviews.
3. The placement officer addressed the students about the need to attend placement training and the benefits thereof.

5.2 Efforts made by the institution for tracking the progression

> 1. The college signed up Placement Training agreement with Vista Mind to train the students on Quantitative aptitude, logical reasoning and verbal aptitude.
> 2. The placement cell also organized training session with alumni students on how to prepare Resume and attend GD / personal interviews.
> 3. The placement officer randomly sat through the training sessions, collected feedback from the students and suggested corrective actions to the training partner.

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
3405	638	231	-

(b) No. of students outside the state

157

(c) No. of international students

2

	No	%
Men	2455	57

	No	%
Women	1819	43

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
1138	398	22	2178	5	3741	1270	425	19	2325	4	4043

Demand ratio 1:17   Dropout Less than 1%

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

> Placement Training
> Career development guidance
> Personality Development Programs

No. of students beneficiaries

> All final year students placed

5.5 No. of students qualified in these examinations

NET	0	SET/SLET	8	GATE	10	CAT	2
IAS/IPS etc	0	State PSC	0	UPSC	1	Others	43

5.6 Details of student counselling and career guidance

> 1. Individual counselling: 240 students
>
> 2. Psycho educational programs: 1 program 150 students

No. of students benefitted

390

5.7 Details of campus placement

		On campus		Off Campus
S. No.	Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
1	Amazon.com	219	1	
2	The Elitists	117	4	
3	Thought Works Technologies Ltd	427	3	
4	MU Sigma	545	32	
5	Zoho Corporation Ltd	430	23	
6	Latent View Analytics	365	18	
7	Lister Technology Ltd	188	6	
8	ITC Paper Board & Speciality Paper Division	95	4	
9	Dell India R&D	211	4	
10	Ascendant Technology	217	3	
11	Loyal textiles	44	2	
12	Danfoss India.	58	2	
13	Info Trellis India	207	8	
14	Indian Navy	100	0	
15	Wipro Technology	462	141	
16	Cognizant Technology	756	232	
17	Trimble Information Technologies India Pvt Ltd	86	1	
18	L&T ECC	53	8	
19	Infosys Technology	602	267	
20	Ashok Leyland Ltd	51	2	
21	Microchip, Chennai.	102	1	
22	Unisys Inida Pvt. Ltd.	28	4	
23	Sanmar Engineering Technology (ENG.DIV)	23	1	
24	Ford Motors India	112	3	
25	Ford Business services Centre Pvt. Ltd.	33	1	
26	Ford Technologies Services India (FTSI)	192	25	
27	Zifo Technology	28	4	
28	Fuji Xerox, Japan	55	1	
29	Hibrise Technology	24	3	
30	Polaris Financial Technology Ltd	45	10	
31	Verizon Data Service India Pvt. Ltd.	178	6	
32	Mobius knowledge Services	71	5	
33	Datacert	109	12	
34	Sundaram Clayton (Off Campus)	13		1
35	Prodapt Solutions	79	12	
36	India Property Online Pvt. Ltd.	36	5	
37	Zoho Corporation - Developing & Content Writer Division	471	11	
38	Sundaram Clayton (Off Campus)	13		1
39	Prodapt Solutions	79	12	
40	India Property Online Pvt. Ltd.	36	5	
41	Zoho Corporation - Developing &	471	11	

	Content Writer Division			
42	Flextronics India Ltd	51	3	
43	Sonata Software India Ltd	9	4	
44	Godrej and Boyce Mfg. Co. Ltd.	26	1	
45	Visteon Technical & Services Centre	34	2	
46	BNP Paribas India Solutions	100	1	
47	Intergraphs Solution Ltd	23	2	
48	IBM, Bangalore.	12	1	
49	Alcatel Lucent	45	7	
50	BA Continuum India Pvt. Ltd.	67	4	
51	Technip India Pvt. Ltd.	13	2	
52	Computer Science Corporation	88	9	
53	Kone Elevator India Pvt. Ltd.	78	4	
54	Citrisys Solutions	165	1	
55	TCS. Chennai.	9		3
56	Shasun Pharmaceuticals Ltd	14	3	
57	Saipem India.	16	1	
58	Samsung Research India. Bangalore.	24	1	
59	Cofrugal Technologies Pvt. Ltd.	89	7	
60	iGate Global Solutions Ltd, Bangalore.	13	6	
61	Health Mantra, Bangalore.	14	1	
62	Practo Technologies Pvt Ltd (off Campus)	1		1
63	Excelacom Technologies (Off Campus)	4		1
64	L&T - Powai, Mumbai.	40	6	
65	Nokia Software Solutions	47	6	
66	Indiapiston, Chengalpat. (Off Campus)	16	1	
67	ARCHEAN GROUPS (Off Campus)	10		1
68	Ebay Paypal (Off Campus)	12	3	
69	VVDN Technologies, Chennai. (Off Campus)	5		3
70	Parry Agro Industries (Murugappa Group)	1	1	
71	Samsung Electronics India Pvt. Ltd.	1	1	
72	HCL Infosystems	29	2	
73	HCL Technologies	40	7	
74	99 acres.com	24	1	
75	Akzo Nobel	3	1	
76	Aspire Systems	6	1	
77	Axis Bank	13	1	
78	Citi Bank	23	1	
79	CTS	16	2	
80	Echo VME	1	1	
81	GATI India	5	1	
82	GRE Edge	34	3	
83	ICICI Securities	14	3	
84	Indus Ind Bank	10	7	
85	ING Vysya Bank	42	1	
86	ITC Hotels	10	1	
87	Janalakshmi Finance	27	4	

88	Justdial	3	3	
89	Karya Technologies	12	1	
90	KVN Promo	6	1	
91	Latent View	14	1	
92	Naukri.com	22	4	
93	RBS	4	3	
94	Shiksha.com	18	1	
95	Smartmegh Solutions	16	3	
96	TCS	38	6	
97	TTK Prestige	3	1	
98	Videocon	12	4	
99	Vodafone	2	1	

5.8 Details of gender sensitization programmes

Lectures were arranged on importance of women education and corresponding increase in socio-economic equality.

5.9 Students Activities

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

State/ University level | 114 | National level | 53 | International level | 12 |

No. of students participated in cultural events

State/ University level | - | National level | 450 | International level | - |

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

Sports : State/ University level | 58 | National level | 35 | International level | 3 |

Cultural: State/ University level | - | National level | 52 | International level | - |

5.10 Scholarships and Financial Support

	Number of students	Amount in Rs. Lakh
Financial support from institution	605	335
Financial support from government	476	82.85
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 [8]   National level [9]   International level [1]

5.12   No. of social initiatives undertaken by the students [18]

5.13 Major grievances of students (if any) redressed: There were no major grievances.

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

> **Vision Statement**
> *To be a world-class institution for technical education and scientific research for the public good.*
>
> **Mission Statement**
>
> *SSN will strive continuously to*
>
> - *Make a positive difference to the society through education*
> - *Empower students from all socio-economic strata to level the academic and professional playing field*
> - *Be a centre of excellence in education in emerging technologies in tandem with the industry and industrial trends*
> - *Build world class research facilities on par with the finest in the world and broaden students' horizons beyond classroom education*
> - *Nurture talents and entrepreneurship and enable all-round personality development in students*

6.2 Does the Institution has a management Information System : YES

> - Academic Planner
> - Institutional Budget & Planning
> - Monthly Performance Report
> - Semester wise Quality Audit Reports
> - Management Review Reports (QMS)
> - Faculty Appraisal Reports

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

6.3.1 Curriculum Development

By Anna University. Faculty of SSN are on Board of Studies of the University to suggest changes in curriculum.

6.3.2 Teaching and Learning

By organising
- Additional expert lectures
- Interaction with practising managers,
- Seminars and workshops on pedagogy
- Research seminars
- Internships

6.3.3 Examination and Evaluation

By Anna University

6.3.4 Research and Development

- Research Advisory Council suggests for focussed research in Engineering, Technology, Science and Management
- Funding by SSN Trust for projects of faculty and students

6.3.5 Library, ICT and physical infrastructure / instrumentation

- Upgradation of Library system on annual basis
- Augmentation of e-learning resources

6.3.6 Human Resource Management

- Incentives for research
- Performance based incentive
- Travel grant
- Welfare Schemes such as 50% payment of house loan interest
- Subsidised group medical insurance
- Professional Skill Allowance
- Sponsorship for upgrading educational qualifications

6.3.7 Faculty and Staff recruitment

1. Advertisements in national news papers
2. Through referrals by academic and industry experts

6.3.8   Industry Interaction / Collaboration

> Encouraged students to take up industry oriented projects
>
> Invited guest lectures from industry
>
> Industry visits arranged
>
> Involved faculty and students in industry consultancy

6.3.9   Admission of Students

The admission for 35% of the seats is conducted by consortium of Self Financing colleges. Merit is the only criterion be it in general stream or reserved stream. Of these seats
1. 25 seats are reserved for top rankers in various boards with full scholarships
2. 25 seats for sportspersons with full scholarship to pursue and higher education
3. 25 seats for meritorious students from rural areas with full scholarships.
The remaining 65% seats are filled through the Anna University single window counselling.

6.4 Welfare schemes for

Teaching	• Tuition fee concession for wards of faculty studying at SSN • Subsidised food at canteen • Free Transportation • Subsidized Medical Insurance • Subsidy on Housing loan interest
Non teaching	• Reimbursement of children tuition fee • Deepavali Bonus • Subsidized Medical Insurance • Free transportation
Students	• Group Insurance

6.5 Total corpus fund generated   : NIL

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	TUVNORD	Yes	QMG
Administrative	Yes	TUVNORD	Yes	QMG

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?

> Not Applicable

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

> Not Applicable

6.11 Activities and support from the Alumni Association

- Alumni meet (TRIBUTE) annually on First Saturday of January every year.
- Scholarship support from Alumni
- Alumni interaction with pre-final and final year students
- Assistance in providing internships & placements

6.12 Activities and support from the Parent – Teacher Association

Support is sought from the parents in monitoring the progress of their wards.
(a) Orientation on opening day for freshers
(b) Scholarships award function
(c) College day
(d) Graduation day

6.13 Development programmes for support staff

Increments are given for obtaining higher degrees and they are sponsored for training where necessary

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

1. Tobacco free campus.
2. A large number of trees planted to supplement green canopy of the campus.
3. Motorised two wheelers banned for students in the campus to reduce carbon footprint.
4. Spaces in the campus earmarked for parks and green belts.
5. Water Treatment Plant installed to recycle water.
6. Recycled water used for gardening and landscaping.
7. Rainwater harvesting implemented for all buildings.

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.

> The institution has conducted a Green Audit of its campus and facilities. The virgin greenery of the campus is maintained. To compensate for the loss of greenery due to the built up area, extensive green coverage has been created. The sewage is treated with a full fledged STP, and the treated water is extensively used to maintain the lawn and watering the trees. Periodical maintenance is done to the STP, so that it functions efficiently throughout the year without interruption.
>
> The rain water is diverted through wide green shallow channels spread over the entire campus which are connected to a pond located on the North East end of the campus, thus ensuring the conservation of rainwater. The college is about 5 km from the sea, and deep wells will result in saline water intrusion and hence, all the sixteen wells spread over the entire campus are shallow, not more than 10m deep. There is a network of well laid out lined channels, which, during heavy rains, discharge the surface water in to the *nallah* there by preventing flooding.
>
> The bank of solar panels located in the open terrace, is essentially used for research; yet, it is used to light partially the street lamps in the campus during nights. A wind mill is on the cards for erection, near the EEE block.
>
> The power position is rather bleak in the state; hence, we are left with no alternative other than relying on the diesel power for the effective running of the Institute. Perhaps, after commissioning of the second unit of IGCAR, the reliance on the DG sets may decrease.

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

> Refer to the action taken report in Management Review Reports

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

(a) Usage of electronic media in teaching & Learning

This is being extensively used for almost all the courses, so that the student is able to understand the topic better.

The aim is to see that the student has a clear perception of what is being taught and he is able to pursue it on his own, based on the material provided by the instructor.

The faculty teaching a subject splits the syllabus into convenient modules, so that the prerequisites of one module have already been taught to the student earlier, and there is cogency. For each module, he/she prepares a set of information, sketches, graphs etc. and uploads it in the intranet, which the student can browse and see and understand at his own pace and comes prepared to the following class. The teacher elaborates the uploaded notes with illustrations or case studies or even videos, so that the topic gets embedded into the minds of the students. In addition, he gives a set of locations, where additional explanations are given or where information for further studies is available.

http://www.ssn.net/twiki/bin/view/PhyIntranet/PhyElearning
http://www.ssn.net/twiki/bin/view/EceIntranet/EceEngPhy-A-15

(b) Early induction of a student into research

  The aim is to create a curious and enquiring mind and apply the conceptual learning to practical projects. Exposure to research develops a structured and logical thinking process and a few of the outstanding students may be attracted to a career in research.

  Students are tagged to faculty and senior students and work on research projects leading to publication in refereed international journals.

(c) Inculcating personality development in students

  The college encourages students to participate in workshops, seminars such as MUN, EDC NSS, YRC, Good Citizens Forum and various students organised club activities are held in the institution, which help the holistic development of the students.

7.4 Contribution to environmental awareness / protection

> Green and clean environment is imbibed in every activity of SSN. Environmental protection is a cultural aspect of SSN

7.5 Whether environmental audit was conducted? Yes ☐ No ☑

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

SWOC analysis of the Institution and Future plans:

Strengths:
- Dedicated and qualified faculty with diverse research interests
- 250 acre campus with state-of-the-art infrastructure
- Well-equipped labs and digitally enabled classrooms for effective learning
- Large number of externally funded research projects
- Meritorious students, many with interest in research
- Students winning several external awards in recognition of their projects
- Academic collaboration with Institutes of international repute, like Carnegie Mellon University
- Periodic research interventions like International and National Conferences and workshops on varied topics
- Structured system for inducting students into research at an early stage
- Seed funding by SSN Trust for promising research proposals of faculty and students
- Culture of all-round development in Academics, Sports, Music and Arts
- A large number of MoUs with industries and educational institutions of eminence.
- Innovation Centre and Incubation Centre to promote creativity and entrepreneurship
- Ranked among the top ten private engineering colleges in India by reputed agencies

Weaknesses:
- Limiting influence of affiliation status in curriculum, syllabi and forging external relationships
- Improvement required in Industry-Institute Interaction

Opportunities:
- Good recognition in industry circles evidenced by placement of students. This can help in building stronger links with industry in consultancy.
- Talented students who can be channelized into leadership positions in the years to come.
- Interaction with ASSOCHAM, CII, FICCI, IMTMA and professional bodies
- Tapping the knowledge resources of Alumni who are pursuing successful careers in industry or as Entrepreneurs.

Challenges:
- Commercialisation of the research work done in the Institution and converting them for industrial application
- Being an affiliated institution, it is difficult to integrate the rapidly changing technology

Future Plans
- To obtain autonomous or University status
- To diversify and offer programs in humanities and sciences
- To increase focus on product development and incubation of start-ups on campus

8. Plans of institution for next year

Adding new programmes

Increasing the intake in existing programmes

Augmentation of infrastructure

Dr. Srinivsas Gumparthi

Signature of the Coordinator, IQAC

Dr. S. Salivahanan

Signature of the Chairman, IQAC