

# **Sri Sivasubramaniya Nadar College of Engineering**

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



## **Annual Quality Assurance Report (AQAR) of the IQAC for 2011-12**

**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 2011-12

## PART – A

AQAR for the year

2011-12

### I. 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:

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:

#### 1.6 Accreditation Details

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

1.7 Date of Establishment of IQAC :

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))

### 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 (AICTE) Yes  No

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

2.2 No. of Administrative/Technical staff

2.3 No. of students

2.4 No. of Management representative

2.5 No. of Alumni

2.6 No. of any other stakeholder and  
community representatives (parent)

2.7 No. of Employers / Industrialists

2.8 No. of other External Experts

2.9 Total No. of members

2.10 No. of IQAC meetings held

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

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

Whether the AQAR was placed in statutory body Yes  No   
 Management  Syndicate  Any other body

Provide the details of the action taken

## 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
Ph.D.	9	-	9	-
PG	6	2	8	-
UG	7	1	8	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
<b>Total</b>	22	3	25	0

  

Interdisciplinary	0	-	-	-
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)

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

Being an affiliated institution, revision or updation is done by university. Many of our faculty are members in Board of Studies / Academic Council of the university

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

B.E. in Civil Engineering  
M.E. in VLSI Design  
M.E. in Software Engineering

## Criterion – II

### 2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
240	149	47	44	0

2.2 No. of permanent faculty with Ph.D.

101

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
20	7	6	2	9	3	-	-	35	12

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	85	46	36
Presented papers	112	45	8
Resource Persons	23	10	11

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

- Technology enabled learning
- Digital library
- Project based learning
- Involving students in research

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

10

2.10 Average percentage of attendance of students

85.5



2.11 Course/Programme wise distribution of pass percentage:

Title of the Programme	Total no. of students appeared	Division				
		Distinction %	I %	II %	III %	Pass %
<b>UG Programmes</b>						
B.E. (EEE)	132	25.0	62.12	3.0		90.12
B.E. (ECE)	129	24.8	65.9	3.9	0	94.6
B.E. (CSE)	130	10.77	75.38	4.61	-	90.77
B. Tech. (IT)	129	7.75	82.95	-	-	90.70
B.Tech-(Chemical)	31	45.2	48.4	0	0	93.6
B.E. (BME)	59	27.11	32.4	35.5	1.6	96.61
B.E. (Mechanical)	65	14	49	2	-	96.88
B.E. (Civil)	-	-	-	-	-	-
<b>PG Programmes</b>						
M.E. (PED)	12	8.3	91.7			100
M.E. (AE)	16	0	100	0	0	100
M.E. (CS)	26	19.2	73.1	0	0	92.3
M.E.(CSE)	32	12.5	81.25	-	-	93.75
M.E. (Compt. & Commn.)	12	-	100	-	-	100
MBA	85	1	80	16	0	97.6

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 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

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	3
UGC – Faculty Improvement Programme	2
HRD programmes	1
Orientation programmes	4
Faculty exchange programme	0
Staff training conducted by the university	9
Staff training conducted by other institutions	26
Summer / Winter schools, Workshops, etc.	74
Others	6

## 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	63	2	3	0
Technical Staff	64	0	11	0

## 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. 25,000 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. Incentives are given for faculty who have published research papers in refereed journals and guided Ph.D. scholars.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	5	2	6	29
Outlay in Rs. Lakhs	11.24	25.77	52.3	613.33

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	1	8	10	15
Outlay in Rs. Lakhs	22.06	112.92	62.15	85.8

#### 3.4 Details on research publications

	International	National	Others
Peer Review Journals	137	2	1
Non-Peer Review Journals	27	0	0
e-Journals	0	0	0
Conference proceedings	167	29	8

### 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

Department wise:

#### EEE

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects	2011-15	CWET	7.75	3.00
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	2011-2013	SSN Trust	2.5	2.36
Students research projects	2011-12	SSN Trust	.30	.30
Any other(Specify)				
Total			10.55	5.66

#### ECE

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects	2011-14	INTEL	6.50	2.50
	2010-12	NIOT	20.64	20.11
	2010-12	AICTE	9.00	8.20
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College	2011-12	SSN Trust	2.50	2.42
Students research projects	2011-12	SSN Trust	.50	.40
Any other(Specify)				
Total			39.14	33.63

#### CSE

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects				
Minor Projects	2011-12	CSI	0.35	0.35
Interdisciplinary Projects				

Industry sponsored				
Projects sponsored by the University/ College				
Students research projects <i>(other than compulsory by the University)</i>				
Any other(Specify)				
Total			0.35	0.35

## IT

Nature of the Project	Duration Year	Name of the funding Agency	Total grant Sanctioned (in lakhs)	Received (in lakhs)
Major projects		DST		1.50
	2012-2015	DRDO	31.62	24.50
	2011-2017	DIT,MCIT	76.60	23.92
Minor Projects				
Interdisciplinary Projects				
Industry sponsored				
Projects sponsored by the University/ College				
Students research projects				
Any other(Specify)				
Total			108.22	49.92

## 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	2011-12	SSN Trust	10.50	9.50
Students research projects	2011-12	SSN Trust	.83	.80
Any other(Specify)				
Total			11.33	10.3

## 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				
Students research projects	2011-12	SSN Trust	.70	.70
Any other(Specify)				
Total			.70	.70

### Mechanical

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	2011-12	SSN TRUST	1.22	1.19
Any other(Specify)				
Total			1.22	1.19

### S&H

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	2011-12	SSN Trust	15.00	
Students research projects	2011-12	SSN Trust	3.55	3.39
Any other(Specify)				
Total			18.55	3.39

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	<input type="text" value="-"/>	CAS	<input type="text" value="-"/>	DST-FIST	<input type="text" value="-"/>
DPE	<input type="text" value="-"/>			DBT Scheme/funds	<input type="text" value="-"/>

3.9 For colleges

Autonomy	<input type="text" value="-"/>	CPE	<input type="text" value="-"/>	DBT Star Scheme	<input type="text" value="-"/>
INSPIRE	<input type="text" value="1"/>	CE	<input type="text" value="-"/>	Any Other (specify)	<input type="text" value="-"/>

3.10 Revenue generated through consultancy

Rs. 2.08 Lakhs

3.11 No. of conferences organized by the Institution

**EEE**

Level	International	National	State	University	College
Number		1			
Sponsoring agencies		CSIR, New Delhi			

**CSE**

Level	International	National	State	University	College
Number	1	-	-	-	-
Sponsoring agencies	IEEE, CSI, SSN Trust				

**Chemical**

Level	International	National	State	University	College
Number		2			
Sponsoring agencies		SSN Trust			

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

24

3.13 No. of collaborations

International 6

National 11

Any other 0

3.14 No. of linkages created during this year

3

3.15 Total budget for research for current year in lakhs :

From Funding agency

Rs. 139 Lakh

From Management of University/College

Rs. 106 Lakh

Total

Rs.245 Lakh

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	1
	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
14	2	3	1	0	0	8

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

49

126

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

11

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: Not Applicable

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:

Not Applicable

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

1. Campus Clean Up
2. Sports Day parade

3. Blood Donation Camp was organized in association with Dhanvandri Blood Bank (NGO).
4. Visited an orphanage, Arul Illam near Kolapakkam
5. Free Eye Check Up in association with Vasam Eye Care
6. Visited Arul Illam and taught subjects like Science and Mathematics to the 10<sup>th</sup> standard students of the orphanage.
7. 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
8. In association with Ekam (NGO) cleaned the both in-patient and out-patient wards of Child Hospital, Egmore and RSRM Hospital, Chennai as part of Joy of Giving week.
9. Visit to Goonj (NGO) as part of Joy of Giving Week.
10. Mr. Ramachandra, INTERPOL Drugs Expert's lecture on "Dangers of Drug Abuse"

## 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 area in Sq.m.)	132970	-	SSN Trust	132970
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 ( $\geq$ 1-0 lakh) during the current year.	1440	40	SSN Trust	1480
Value of the equipment purchased during the year (Rs. in Lakhs)	1205.54	47.41	SSN Trust	1252.95

#### 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	40148	15,883,991	5865	2,014,997	46013	17,898,988
Reference Books	2284	5,158,708	154	646,863	2438	5,805,571



e-Books	-	-	363	105,342	363	105,342
Journals	136	1,670,051	5	331,938	141	2,001,989
e-Journals	955	1,325,630	1461	1,472,288	2416	2,797,918
Digital Database	3	1,325,630	6	1,577,630	9	2,903,260
CD & Video	183	146,614	177	25,008	360	171,622
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	No. of computers in Labs	Internet	Browsing Centres	No. of Computer Centres	No. of computers in Office	No. of computers Departments	Others
Existing	1851	1361	50		23	49	418	
Added	241	218			1		22	
Total	2092	1579	25+25 Mbps	-	24	49	440	-

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

- Refresher programs 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. 27 Lakh

ii) Campus Infrastructure and facilities

Rs. 356 Lakh

iii) Equipments

Rs. 56 Lakh

iv) Others

Rs.12 Lakh

**Total :**

Rs. 452 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
2874	639	137	-

(b) No. of students outside the state

38
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(c) No. of international students

0
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UG	Men		Women
	No	%	
	2021	55	
	1629	45	

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
798	224	18	1428	3	2471	1117	351	25	2017	3	3513

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	-	SET/SLET	-	GATE	9	CAT	-
IAS/IPS etc	-	State PSC	1	UPSC	1	Others	58

5.6 Details of student counselling and career guidance

1. Individual counselling: students
2. Group counselling: 40 students
3. Psycho educational programs: 2 programs 400 students

No. of students benefitted

950

5.7 Details of campus placement

<i>On campus</i>				<i>Off Campus</i>
S. No.	Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
1.	Ebay Paypal Ltd	87	4	
2.	Global Scholar	314	3	
3.	Honda Motors	45	3	
4.	Ascendant Technologies	309	6	
5.	Thought Works Technologies	419	4	
6.	Ashok Leyland Ltd	133	7	
7.	Lister Technologies	116	4	
8.	L&T ECC Division	19	8	
9.	UCAL Fuel Systems	24	5	
10.	Rane Group of Companies	20	7	
11.	HCL Tech Project cum Placement	41	32	
12.	Hyundai Motor India Ltd	21	2	
13.	Sundaram Fasteners	16	4	
14.	Cognizant Technologies	659	433	
15.	Exeter Group of Companies	171	4	
16.	Infosys	559	373	
17.	HCL Technologies	97	57	
18.	Wipro Technologies	126	46	
19.	Flextronics	16	3	
20.	Sanmar Group of Companies	21	2	
21.	TATA Elxsi	168	12	
22.	Godrej & Boyce Manufacturing Company Ltd	4	2	
23.	KLA Tencor	183	1	
24.	ZoHo Corporation	5	5	

25.	HCL Infosystem	46	3	
26.	Ford Motors	94	4	
27.	Beroe INC	234	6	
28.	Ford Technologies	136	15	
29.	SANMINA-SCI Technology India Pvt. Ltd	1		1
30.	FL Smidth	33	7	
31.	Shriram EPC India Ltd	31	6	
32.	Mu Sigma	159	13	
33.	Hinduja Foundaries Ltd	6	6	
34.	Briosys	66	4	
35.	Amararaja Bateries	54	2	
36.	iGate patni	4		4
37.	Hyderabad Industries	18	2	
38.	Petrofac Engineering Ltd	28	2	
39.	Visteon Technical & Services Centre Pvt. Ltd.	20	4	
40.	M. H. Alshaya Company W. L. L. Retail Division, Kuwait.	28	4	
41.	WABCO Vehicle Control Systems	12		1
42.	Renault Nissan Technology & Business Centre India Pvt. Ltd.	16		1
43.	TCS	49	1	
44.	Real Image Media	34	3	
45.	Cognizant Technology Solutions	41	2	
46.	HCL Tech	60	19	
47.	Shiksha Edu Tech	27	4	
48.	Axis Bank	40	5	
49.	HCL Infosystems	16	2	
50.	Beroe	28	1	
51.	Coca-Cola	12	2	
52.	GSK	30	3	
53.	Sundaram Fasteners	5	1	
54.	ITC(Through Naukri)	15	2	
55.	Secova	11	1	
56.	BNP Paribas Security Services Ltd.	12	2	
57.	Aspire Systems	12	1	
58.	Club Mahindra	9	2	
59.	Visual Bis	6	1	
60.	Alletech	3	3	
61.	Shriram Trasport Finance	13	1	
62.	Sundaram Business Services	6	1	
63.	ISEO Systems	5	1	
64.	Get it info Services	6	1	
65.	TI Diamond	4	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  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 in Rs. Lakh
Financial support from institution	442	338
Financial support from government	398	22.4
Financial support from other sources	-	-
No. 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: 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

- 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. SSN CE faculty are actively involved in curriculum development as Members of Board of Studies.

##### 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 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

#### 6.3.7 Faculty and Staff recruitment

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

#### 6.3.8 Industry Interaction / Collaboration

Encouraging students to take up industry oriented projects  
Invited guest lectures from industry  
Industry visits  
Involving 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	<ul style="list-style-type: none"> <li>• Tuition fee concession for wards of faculty studying at SSN</li> <li>• Subsidised food at canteen</li> <li>• Free Transportation</li> <li>• Subsidized Medical Insurance</li> <li>• Subsidy on Housing loan interest</li> </ul>
Non teaching	<ul style="list-style-type: none"> <li>• Reimbursement of children tuition fee</li> <li>• Deepavali Bonus</li> <li>• Subsidized Medical Insurance</li> <li>• Free transportation</li> </ul>
Students	<ul style="list-style-type: none"> <li>• Group Insurance</li> </ul>

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 startups on campus

## 8. Plans of institution for next year

Adding new programmes  
Increasing the intake in existing programmes  
Augmentation of infrastructure



*Dr. Srinivas Gumparathi*

*Signature of the Coordinator, IQAC*



*Dr. S. Salivahanan*

*Signature of the Chairman, IQAC*