YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING
• Name of the Head of the institution	Dr.V.E.Annamalai
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone no./Alternate phone no.	04427469752
• Mobile no	9840359093
• Registered e-mail	info@ssn.edu.in
• Alternate e-mail	principal@ssn.edu.in
• Address	Rajiv Gandhi Salai(OMR), Kalavakkam
• City/Town	Kalavakkam
• State/UT	Tamil Nadu
• Pin Code	603110
2.Institutional status	
• Affiliated /Constituent	Autonomous
• Type of Institution	Co-education
• Location	Rural

• Financial Status	**Self-financing**
• Name of the Affiliating University	**Anna University**
• Name of the IQAC Coordinator	**Dr.N.Venkateswaran**
• Phone No.	**04427469752**
• Alternate phone No.	**04427469700**
• Mobile	**9443468070**
• IQAC e-mail address	**ssniqac@ssn.edu.in**
• Alternate Email address	**info@ssn.edu.in**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.ssn.edu.in/wp-content/uploads/2021/02/AQAR-2019-20-Revised.pdf
4.Whether Academic Calendar prepared during the year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.ssn.edu.in/wp-content/uploads/2021/09/Calendar_of_events-2020-21.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**A**	**3.13**	**2011**	**08/01/2011**	**07/01/2016**
Cycle 2	**A+**	**3.55**	**2017**	**17/07/2017**	**31/12/2023**

6.Date of Establishment of IQAC	**01/07/2009**

7.Provide the list of funds by Central / State Government UGC/CSIR/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.,

Institutional/Department /Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. A. Kavitha / BME, Dr. S. Pravin Kumar / BME	**SERB-POWER**	**DST**	**30-06-2021 & 3 Years**	**2593000**

Dr. S. Arun Karthick / BME, Dr. S. Pravin Kumar / BME, Dr. Sachin G Sarate / BME	BDTD	DST	04-03-2021 & 2 Years	2534000
Dr. J. Vijay / BME	SERB-CRG	DST	23-03-2021 & 2 Years	1160000
Dr. K. Sathish Kumar / Chemical	-	Entrepreneurship Development and Innovation Institute	01-11-2020 & 1 Year	250000
Dr. P. Senthil Kumar / Chemical	Technology Mission Division	DST	01-12-2020 & 3 Years	6329000
S. I. Davis Presley / Chemistry	-	DST	01-02-2019 & 2 Years	4750000
Dr. B. Bharathi / CSE	TARE	DST	15-02-2019 & 3 Years	820000
Dr. R. Kanchana / CSE	BIRAC GCI-IDIA	BIRAC	11-02-2019 & 25 Months	5001000
Dr. D.Thenmozhi / CSE	EEQ	DST	15-02-2019 & 3 Years	2814000
Dr. N.P. Rajesh / Physics, Dr. Chitra Babu / CSE	SSTP	DST	05-03-2019 & 2 Years	4757000
Dr. N. Venkateswaran / ECE & Dr. K.	RESPOND	ISRO	02-07-2019 & 2 Years	1429000

Madheswari / CSE				
Dr. V .S.Felix Enigo / CSE, Dr. B. Prabavathy / CSE, Dr. K. Nirmala / BME & Dr.Sachin Gaurishankar Sarate / BME	BIG	BIRAC	01-08-2020 & 1.5 Years	5000000
Dr. S. Radha / ECE, Dr. B. S. Sreeja / ECE, Dr. K. Muthumeen akshi / ECE	-	DST	01-09-2020 & 3 Years	3446000
Dr. R. Srinivasan / IT, Dr.Premanand V. Chandramani / ECE, Dr. K. K. Nagarajan / ECE	-	BRNS	01-07-2020 & 3 Years	3250000
Dr. R. Jayaparvathy / ECE, Dr. M. Gulam Nabi Alsath / ECE	All India Coordinated Research Project (AICRP-7)	MOEFCC	01-02-2020 & 5 Years	3115000
Dr. S. Radha / ECE, Dr. B. S. Sreeja / ECE	-	TNSCST	01-11-2019 & 2 Years	480000
Dr. S. Radha / ECE, Dr. B. S. Sreeja	DBDT	DST	01-07-2019 & 3 Years	3504000

/ ECE				
Dr. S. Radha / ECE, Dr. R. Hemalatha / ECE	SSTP	DST	01-02-2019 & 3 Years	6226000
Dr. R. Amutha / ECE, Dr. R. Rajavel / ECE	SSTP	DST	01-02-2019 & 3 Years	1701000
Dr. M. Gulam Nabi Alsath / ECE, Dr. S. Ramprabhu / ECE, Dr. S. Kirubaveni / ECE	SERB-CRG	DST	01-07-2018 & 3 Years	3674000
Dr. S. Sakthivel Murugan / ECE, Dr. N. Padmapriya / Maths	SSTP	DST	01-02-2018 & 2 Years	4990000
Dr. P. Rajesh / Physics	SERB	DST	01-12-2020 & 3 Years	4300000
Dr. P. Balaji Bhargav / SSN RC, C. Balaji, SSN RC	DAE-CSR	UGC	2018-2021 & 3 Years	650000
Dr. S. R. Koteswara Rao / Mechanical, Dr. R. Damodaram / Mechanical	ARB	DRDO	2018-2021 & 3 Years	1879000

Dr. G. Anandha Babu / Physics, Prof. P. Ramasamy/ Dean (Research)	-	CSIR	2018-2021 & 3 Years	2000000
Dr. Tanusree Sengupta / Chemistry	-	SERB	2018-2021 & 3 Years	3463000
Dr. M. Senthil Pandian / SSN RC	-	SERB	2019-2021 & 2 Years	4060000
Dr. G. Anandha Babu / Physics	-	SERB	2019-2021 & 2 Years	2879000
Dr. L. Poovazhagan/ Mechanical, Dr. S. Rajkumar / Mechanical	-	SERB	2019-2021 & 2 Years	2494000
Dr. B. Ambedkar / Chemical	-	DST	2019-2020 & 2 Years	20800000
Dr. S. Chitra / IT	-	TNSCST	2019-2020 & 2 Years	410000
Dr. P. Ramasamy / Dean Research	-	DST	2021-2024 & 3 Years	120500000
Dr. P. Rajesh / Physics	-	BRNS	2021-2023 & 3 Years	3400000

8.Whether composition of IQAC as per latest NAAC guidelines	Yes	
• Upload latest notification of formation of IQAC	[View File](#)	

9.No. of IQAC meetings held during the year	**4**
• Were the minutes of IQAC meeting(s) and compliance to the decisions have been uploaded on the institutional website?	**Yes**
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded
10.Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**
• If yes, mention the amount	

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

? Formation of SSN Centre for Innovation and best Practices in Education (SCIPE) - several activities pertaining to online education were taken up.

? Open Elective Selection process made student centric and enable choice of OE courses on First Come First Serve (FCFS)

? Planning for Virtual Labs and Methods of Ensuring the conduct of Lab Virtually for Student Performance Evaluation

? Planning for R2021 Curriculum Revision for all UG Course - changes need to be done by Studying AICTE Model Curriculum.

? New Scheme for seamless migration of Research Staff and introduction of Research Extension, Teaching Assistant schemes

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

Plan of Action	Achievements/Outcomes
To form a Centre for Innovation and Best Practices in Education to adopt new approaches during Covid pandemic	Formation of SSN Centre for Innovation and best Practices in Education (SCIPE) - several activities pertaining to online education were taken up.
To offer Open elective courses to more students based on their choices	Open Elective Selection process made student centric and enable choice of OE courses on First Come First Serve (FCFS)
To train students through virtual laboratory in place traditional labs due to challenge posed by Covid pandemic	Implemented the Virtual Labs and Methods of Ensuring the conduct of Lab Virtually.
To take up R2021 Curriculum Revision for all UG Course by introducing changes by Studying AICTE Model Curriculum.	Completed R2021 Curriculum Revision for all UG Course.
To stimulate technological innovation and research among students and faculty	New Schemes are introduced for seamless migration of Research Staff and introduction of Research Extension, Teaching Assistant schemes.

13.Whether the AQAR was placed before statutory body? — Yes

- Name of the statutory body

Name	Date of meeting(s)
ISO - Surveillance Audit - 2020 by TUV NORD Auditors	25/11/2020

14.Whether institutional data submitted to AISHE

Year	Date of Submission
2020	31/01/2020

Extended Profile

1.Programme

1.1 Number of courses offered by the institution across all programs during the year	**19**

File Description	Documents
Data Template	[View File]

2.Student

2.1 Number of students during the year	**4154**

File Description	Documents
Institutional Data in Prescribed Format	[View File]

2.2 Number of seats earmarked for reserved category as per GOI/ State Govt. rule during the year	**625**

File Description	Documents
Data Template	[View File]

2.3 Number of outgoing/ final year students during the year	**1159**

File Description	Documents
Data Template	[View File]

3.Academic

3.1 Number of full time teachers during the year	**260**

File Description	Documents
Data Template	[View File]

3.2 Number of sanctioned posts during the year	250

File Description	Documents
Data Template	View File

4.Institution

4.1 Total number of Classrooms and Seminar halls	118
4.2 Total expenditure excluding salary during the year (INR in lakhs)	4530
4.3 Total number of computers on campus for academic purposes	2153

Part B

CURRICULAR ASPECTS

1.1 - Curricular Planning and Implementation

1.1.1 - The Institution ensures effective curriculum delivery through a well planned and documented process

SSNCE is an autonomous institution affiliated to Anna University, and hence has the opportunity to offer its own curriculum. The process of Curriculum delivery is documented and has the following steps:

- The Controller of Exams, generates the Annual Academic Calendar indicating the dates for tests /attendance closing / Model lab exams, and last working day.
- Heads of departments allot subjects to faculty, based on curriculum, following a standard practice of asking for preferences and also based on domain expertise.
- Based on subject allotment and curriculum needs, the Central Time Table committee frames the time table.
- Individual faculty prepares a comprehensive lesson plan and gets it approved by HoD.
- Individual faculty shares the course lecture plan and the syllabus to the students through the Learning Management System [LMS].

- **Faculty members adhere to the course delivery plan. Tests are conducted as scheduled.**
- **Based on test results, slow learners are identified.**
- **Mentors take care of discussing with the identified slow learners and also arrange for additional / special classes.**

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.ssn.edu.in/college-of-engineering/cse-peos-and-pos/

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

All academic activities strictly adhere to the schedules given in the Academic Calendar. The dates on which attendance should be closed and the dates on which the continuous assessment test [CAT] should be conducted, are all part of the Academic Calendar.

Continuous Assessment tests are centrally monitored by CoE. Monitoring includes

- **Collecting question papers from the departments**
- **Arranging for invigilation during tests**
- **Collecting back the marks and answer sheets**
- **Declaring the results of the assessment**
- **Calculating the internal assessment marks based on the internal assessment marks.**

File Description	Documents
Upload relevant supporting document	View File
Link for Additional information	https://www.ssn.edu.in/wp-content/uploads/2021/09/Calendar_of_events-2020-21.pdf

1.1.3 - Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the year. Academic council/BoS of Affiliating University	**A. All of the above**

Setting of question papers for UG/PG programs Design and Development of Curriculum for Add on/ certificate/ Diploma Courses Assessment /evaluation process of the affiliating University	

File Description	Documents
Details of participation of teachers in various bodies/activities provided as a response to the metric	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1 - Number of Programmes in which CBCS/ Elective course system implemented

19

File Description	Documents
Any additional information	**No File Uploaded**
Minutes of relevant Academic Council/ BOS meetings	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Add on /Certificate programs offered during the year

1.2.2.1 - How many Add on /Certificate programs are added during the year. Data requirement for year: (As per Data Template)

12

File Description	Documents
Any additional information	**No File Uploaded**
Brochure or any other document relating to Add on /Certificate programs	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	View File

1.2.3 - Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

502

File Description	Documents
Any additional information	**No File Uploaded**
Details of the students enrolled in Subjects related to certificate/Add-on programs	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

As suggested by the Model Curriculum of AICTE, the R2021 curriculum includes

- **Two courses on Universal Human Values**
- **One mandatory non-credit course on Environmental Science**
- **One elective course on Professional Ethics and**
- **One elective course in chemical engineering on Sustainability Goals.**

While there is no separate course on Sustainability, as suggested by Academic Council experts, all courses of all programs are checked for their coverage of Sustainable Development Goals and indicated in syllabus.

File Description	Documents
Any additional information	**No File Uploaded**
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	**No File Uploaded**

1.3.2 - Number of courses that include experiential learning through project work/field work/internship during the year

8

File Description	Documents
Any additional information	View File
Programme / Curriculum/ Syllabus of the courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View File
MoU's with relevant organizations for these courses, if any	**No File Uploaded**
Institutional Data in Prescribed Format	View File

1.3.3 - Number of students undertaking project work/field work/ internships

618

File Description	Documents
Any additional information	**No File Uploaded**
List of programmes and number of students undertaking project work/field work/ /internships (Data Template)	View File

1.4 - Feedback System

1.4.1 - Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders Students Teachers Employers Alumni	**A. All of the above**

File Description	Documents
URL for stakeholder feedback report	https://www.ssn.edu.in/alumni-introduction/
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View File
Any additional information	**No File Uploaded**

1.4.2 - Feedback process of the Institution may	**B. Feedback collected, analyzed**

be classified as follows	**and action has been taken**

File Description	Documents
Upload any additional information	[View File](#)
URL for feedback report	https://www.ssn.edu.in/wp-content/uploads/2022/02/SSS.pdf

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment Number Number of students admitted during the year

2.1.1.1 - Number of students admitted during the year

956

File Description	Documents
Any additional information	[View File](#)
Institutional data in prescribed format	[View File](#)

2.1.2 - Number of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy during the year (exclusive of supernumerary seats)

2.1.2.1 - Number of actual students admitted from the reserved categories during the year

660

File Description	Documents
Any additional information	**No File Uploaded**
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

Slow learners are normally identified by their performance in CAT. Based on CAT marks, those who need additional support are counseled by the mentor and instructed to attend special classes. Faculty handling the subject offer extra classes to revise the portions, to

help slow learners. The process of mentoring based on CAT marks, is the general approach to identify and improve slow learners.

Fast learners can finish their eighth semester courses earlier or do extra courses. For example,

- Students can complete the two eighth semester courses anytime between the third and seventh semesters and free themselves in the eighth semester to focus on doing projects in industry.
- Students can take six additional courses and become eligible for a Honors degree in a select track.
- Students can audit certain courses additionally, without attending any assessment.

File Description	Documents
Paste link for additional information	**Nil**
Upload any additional information	View File

2.2.2 - Student- Full time teacher ratio (Data for the latest completed academic year)

Number of Students	Number of Teachers
1080	**260**

File Description	Documents
Any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Learning experience improves only when the student does something towards practicing what is taught. This is facilitated by several approaches as below:

- Experiential learning- by integrating labs with theories and offering as Theory cum Practice courses. Each program has consciously attempted to offer a minimum of three such courses.
- Participative Learning – by flipped classroom approach.
- Problem Solving - by offering real life situations and facilitating group discussion in subjects like Professional

Ethics; by offering Tutorial sessions where students are taught how to solve complex problems, problems that need skill for assuming relevant data, in problem oriented subjects.

- **External /extended learning with credits- including the work done individually by students at home / outside classroom as part of the credit [three hours of student work outside class = one credit].**

File Description	Documents
Upload any additional information	[View File](#)
Link for additional information	**Nil**

2.3.2 - Teachers use ICT enabled tools for effective teaching-learning process. Write description in maximum of 200 words

Even before Covid, each class was provided with Laptop and projection system. Faculty were encouraged to use power points [ppts] for delivering lectures. The challenges posed by Covid enabled us to equip ourselves with all necessary digital accessories for effective online content delivery.

Each faculty is now provided with the following:

- **A computer system with net connectivity**
- **A head set with microphone**
- **A camera facility for each desktop**
- **A whiteboard [one can write during online lectures , just like writing on a black board]**

In addition, there are several software like Mesh central, repl.it , Matlab etc., that enable online sharing of Institutional software .

The Institution also subscribes to several online licenses like zoom, MS teams and Panopto video tools.

File Description	Documents
Upload any additional information	**No File Uploaded**
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	[View File](#)

2.3.3 - Ratio of mentor to students for academic and other related issues (Data for the latest completed academic year)

2.3.3.1 - Number of mentors

250

File Description	Documents
Upload, number of students enrolled and full time teachers on roll	**No File Uploaded**
Circulars pertaining to assigning mentors to mentees	**No File Uploaded**
Mentor/mentee ratio	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full time teachers against sanctioned posts during the year

260

File Description	Documents
Full time teachers and sanctioned posts for year (Data Template)	View File
Any additional information	**No File Uploaded**
List of the faculty members authenticated by the Head of HEI	View File

2.4.2 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.B Superspeciality / D.Sc. / D.Litt. during the year (consider only highest degree for count)

2.4.2.1 - Number of full time teachers with Ph. D. / D.M. / M.Ch. /D.N.C Superspeciality / D.Sc. / D.Litt. during the year

242

File Description	Documents
Any additional information	View File
List of number of full time teachers with Ph. D. / D.M. / M.Ch./ D.N.B Super specialty / D.Sc. / D.Litt. and number of full time teachers for year (Data Template)	View File

2.4.3 - Number of years of teaching experience of full time teachers in the same institution (Data for the latest completed academic year)

2.4.3.1 - Total experience of full-time teachers

3227

File Description	Documents
Any additional information	**No File Uploaded**
List of Teachers including their PAN, designation, dept. and experience details(Data Template)	[View File](#)

2.5 - Evaluation Process and Reforms

2.5.1 - Mechanism of internal assessment is transparent and robust in terms of frequency and mode. Write description within 200 words.

Internal assessment is centrally monitored by CoE. Transparency is ensured by the following:

- **Dates of test are announced at the beginning of the academic session, to ensure sufficient time is left between two cycles of tests.**
- **Tests are conducted by CoE**
- **Answer sheets are shared with students along with answer keys, so that they can check and represent to their faculty , for any discrepancies.**

Robustness is ensured by the following:

- **Question papers are scrutinized by a team of assigned faculty in each department, to assess the adequacy and adherence to CO-PO norms and to approve it.**

- **Centrally appointed squad audits the various locations of test, to ensure everything is okay.**
- **Marks are collected within two weeks of the conduct of tests and thereafter faculty have no access to correct the same.**
- **Internal assessment marks are computed by CoE based on CAT marks. Faculty cannot change the same.**

File Description	Documents
Any additional information	[View File](#)
Link for additional information	**Nil**

2.5.2 - Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

Grievance redressal can be had by one of the several approaches listed below:

- **Sending a mail to grievance cell**
- **Writing to Student counselor**
- **Representing to HoD or Principal or CoE, preferably by mail**

All grievances are responded to , within two working days and amicably resolved within a practical time limit.

This information is included in the Code of Conduct booklet shared with all students by mail.

File Description	Documents
Any additional information	**No File Uploaded**
Link for additional information	https://www.ssn.edu.in/grievance-redressal-portal/

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

All programs are accredited by NBA. As mandated by NBA, all course outcomes and program outcomes are disseminated in various ways.

- **POs are boldly displayed in each department, at the entrance portion, so that each student sees it almost every day.**
- **Course Outcomes are included in each syllabus and shared with students, by the faculty, in the Lesson Plan and during the first introductory period.**
- **Each question paper used for internal assessment also indicates the CO to which each question relates to.**

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for Additional information	https://www.ssn.edu.in/college-of-engineering/ece-peos-and-pos/
Upload COs for all Programmes (exemplars from Glossary)	**No File Uploaded**

2.6.2 - Attainment of Programme outcomes and course outcomes are evaluated by the institution.

Each course has COs that are mapped to the Program Outcomes.

The Institution has a common approach for deducing the attainment of CO and PO.

The faculty follows the standard method and calculates the attainment levels after each end semester exam.

Each department has a Program Advisory Committee that assesses the attainment at Program Level and decides on actions for the next semester, to improve the attainment levels.

File Description	Documents
Upload any additional information	View File
Paste link for Additional information	https://www.ssn.edu.in/college-of-engineering/ece-peos-and-pos/

2.6.3 - Pass percentage of Students during the year

2.6.3.1 - Total number of final year students who passed the university examination during the year

1210

File Description	Documents
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View File
Upload any additional information	**No File Uploaded**
Paste link for the annual report	**Nil**

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire) (results and details need to be provided as a weblink)

https://www.ssn.edu.in/wp-content/uploads/2022/01/SSS.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Resource Mobilization for Research

3.1.1 - Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

3.1.1.1 - Total Grants from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)

933.5

File Description	Documents
Any additional information	**No File Uploaded**
e-copies of the grant award letters for sponsored research projects /endowments	View File
List of endowments / projects with details of grants(Data Template)	View File

3.1.2 - Number of teachers recognized as research guides (latest completed academic year)

3.1.2.1 - Number of teachers recognized as research guides

175

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

3.1.3 - Number of departments having Research projects funded by government and non government agencies during the year

3.1.3.1 - Number of departments having Research projects funded by government and non-government agencies during the year

11

File Description	Documents
List of research projects and funding details (Data Template)	View File
Any additional information	No File Uploaded
Supporting document from Funding Agency	View File
Paste link to funding agency website	http://www.serb.gov.in/home.php

3.2 - Innovation Ecosystem

3.2.1 - Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

SSNCE ensures an environment conducive for research by the following Bodies:

- Institution Innovation Council [IIC]
- Internal funding for student and faculty projects
- IPR Cell
- Innovation Centre
- Incubation Centre

IIC conducts several events as per guidelines of MoE [Ministry of Education] and focuses on nurturing Innovation, IPR and Startup eco system.

Internal funding for student ideas is offered by a scheme called STIRS – Stimulus for Technological Innovation and Research among Students - under which, around 150 teams are supported with around Rs.40 lakhs for doing projects. This automatically brings about

quality publications from students. Such outcomes help our students in their career. Similarly, by another scheme, faculty are also provided seed money for project ideas, from Rs.3 to 5 lakhs. The overall outlay for these two schemes is around Re.one crore per year.

A separate IPR Cell conducts training programs on patenting and facilitates patenting by students and faculty. This helps in creation of knowledge, which can later be transferred to industry for productionising.

Innovation Centre is a facility for student to try out their ideas. It has simple fabrication facilities.

Incubation centre supports faculty who want to take up their product to manufacturing and marketing- in the form of a startup.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.2.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year

3.2.2.1 - Total number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during the year

71

File Description	Documents
Report of the event	View File
Any additional information	No File Uploaded
List of workshops/seminars during last 5 years (Data Template)	View File

3.3 - Research Publications and Awards

3.3.1 - Number of Ph.Ds registered per eligible teacher during the year

3.3.1.1 - How many Ph.Ds registered per eligible teacher within the year

62

File Description	Documents
URL to the research page on HEI website	**Nil**
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc (Data Template)	View File
Any additional information	View File

3.3.2 - Number of research papers per teachers in the Journals notified on UGC website during the year

3.3.2.1 - Number of research papers in the Journals notified on UGC website during the year

181

File Description	Documents
Any additional information	View File
List of research papers by title, author, department, name and year of publication (Data Template)	View File

3.3.3 - Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during the year

3.3.3.1 - Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during year

91

File Description	Documents
Any additional information	View File
List books and chapters edited volumes/ books published (Data Template)	View File

3.4 - Extension Activities

3.4.1 - Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the year

As mandated by AICTE Model Curriculum, all students are encouraged to take up 80 periods of experiential learning in any one of the three associations – NSS, YRC or NSO.

During induction, all these three activities are explained and they are enrolled in any one of the three. Then, guided by faculty coordinators, students experience the benefit of practicing social behavior in these teams.

National Social Service [NSS] undertakes several social activities in and around the campus- in village schools etc. Youth Red Cross [YRC] conducts several health related activities like blood donation and health camps. National Sports Organization [NSO] offers several activities towards individual health monitoring and supports participating in competitions. All these activities, enable the student to operate in a social setting, for understanding social skills.

File Description	Documents
Paste link for additional information	Nil
Upload any additional information	No File Uploaded

3.4.2 - Number of awards and recognitions received for extension activities from government / government recognized bodies during the year

3.4.2.1 - Total number of awards and recognition received for extension activities from Government/ Government recognized bodies year wise during the year

4

File Description	Documents
Any additional information	No File Uploaded
Number of awards for extension activities in last 5 year (Data Template)	View File
e-copy of the award letters	No File Uploaded

3.4.3 - Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organized in collaboration with industry, community and NGOs) during the year

3.4.3.1 - Number of extension and outreach Programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the year

135

File Description	Documents
Reports of the event organized	View File
Any additional information	**No File Uploaded**
Number of extension and outreach Programmes conducted with industry, community etc for the during the year (Data Template)	View File

3.4.4 - Number of students participating in extension activities at 3.4.3. above during year

3.4.4.1 - Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year wise during year

1350

File Description	Documents
Report of the event	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of students participating in extension activities with Govt. or NGO etc (Data Template)	View File

3.5 - Collaboration

3.5.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship during the year

3.5.1.1 - Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year wise during the year

305

File Description	Documents
e-copies of related Document	View File
Any additional information	View File
Details of Collaborative activities with institutions/industries for research, Faculty	View File

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the year

3.5.2.1 - Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the year

19

File Description	Documents
e-Copies of the MoUs with institution./ industry/corporate houses	View File
Any additional information	View File
Details of functional MoUs with institutions of national, international importance, other universities etc during the year	View File

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Each program has dedicated classrooms for each class, with laptop, screen and projection facility. Necessary labs and tutorial rooms are also available.

Each faculty has been provided with a system.

Each department has seminar halls.

In addition, there are central facilities as below

- **Main auditorium [1000 seater]**
- **Mini auditorium [300 seater]**
- **Central Seminar Hall [200 seater]**
- **Centrally air conditioned Library**
- **Gym and Indoor sports facilities**
- **Bank, ATM and dispensary**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.youtube.com/watch?v=A-vNlIpHp3U

4.1.2 - The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Cultural Activities:

- The SSN College Cultural Committee supervises all the cultural events and activities on the campus such as College Day Events and Celebrations, Freshers' Day Events, and the Annual College Cultural Fest.

Games and Sports Facilities

- The institution has qualified Physical Director as per norms.
- The area of outdoor stadium is 2.5 acres, suitable for conducting even National level sports competitions. Games such as Javelin Throw, Shot-put, Discus- Throw, volleyball, badminton and short & Long Jumps, Kabaddi court, Cho- Cho court, Basket Ball courts and cricket is made available in this outdoor stadium.

- The college has indoor facilities for Table Tennis Tables, Caroms, Chess, Dart boards, conducting cultural activities, Guest rooms for visiting athletes and participants.

- A large percentage of students participate in the sports and games events conducted at college level, University level as well as National level.

Yoga and Meditation Centre:

- Services of a qualified Yoga Trainer are available in the college.
- SSN students can get trained by the Yoga Practitioner and also participate in events conducted at college level, University level and National level.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.ssn.edu.in/facilities-sports-annexes/

4.1.3 - Number of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc.

118

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure, excluding salary for infrastructure augmentation during the year (INR in Lakhs)

4.1.4.1 - Expenditure for infrastructure augmentation, excluding salary during the year (INR in lakhs)

455

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload audited utilization statements	View File
Upload Details of budget allocation, excluding salary during the year (Data Template	View File

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

Library is automated using Integrated Library Management System

(ILMS):

- **Name of the ILMS software: Koha**
- **Nature of automation (full or partial) : Full**
- **Version: 19.05.00.000**
- **Year of automation: 2014.**

Users can place request through Koha OPAC for any unavailable or on demand book to the Librarian. Members can place hold on books which are under circulation and Koha triggers alert to the user when the book is available in the library. SMS and email alerts are triggered for every transaction with Koha to the members. Students are benefited with RFID Kiosk machine as its really quick in getting the book issued to the students

For Authentication, biometric is being used. The RFID Security gate blocks the user, if the book is not issued through the RFID circulation counter

File Description	Documents
Upload any additional information	[View File](#)
Paste link for Additional Information	https://www.ssn.edu.in/facilities-library/

4.2.2 - The institution has subscription for the following e-resources e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access toe-resources	**A. Any 4 or more of the above**

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of subscriptions like e-journals,e-ShodhSindhu, Shodhganga Membership etc (Data Template)	[View File](#)

4.2.3 - Expenditure for purchase of books/e-books and subscription to journals/e- journals during the year (INR in Lakhs)

4.2.3.1 - Annual expenditure of purchase sf books/e-books and subscription to journals/e-journals during the year (INR in Lakhs)

97

File Description	Documents
Any additional information	**No File Uploaded**
Audited statements of accounts	**No File Uploaded**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Number per day usage of library by teachers and students (foot falls and login data for online access) (Data for the latest completed academic year)

4.2.4.1 - Number of teachers and students using library per day over last one year

212

File Description	Documents
Any additional information	**No File Uploaded**
Details of library usage by teachers and students	View File

4.3 - IT Infrastructure

4.3.1 - Institution frequently updates its IT facilities including Wi-Fi

The Systems team evaluates the need for any upgrades and frequently updates the IT facilities. The need for upgrades is identified during the quarterly SCIPE meeting with HoDs. SCIPE stands for SSN Centre for Innovative Practices in Education. The effectiveness of upgrades is also assessed by Annual surveys.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**

4.3.2 - Number of Computers

2153

File Description	Documents
Upload any additional information	**No File Uploaded**
List of Computers	**No File Uploaded**

4.3.3 - Bandwidth of internet connection in the Institution	**A. ? 50MBPS**

File Description	Documents
Upload any additional Information	View File
Details of available bandwidth of internet connection in the Institution	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the year (INR in Lakhs)

4.4.1.1 - Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component during the year (INR in lakhs)

4530

File Description	Documents
Upload any additional information	**No File Uploaded**
Audited statements of accounts	**No File Uploaded**
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

There are two types of Maintenance-periodic preventive maintenance and complaint based maintenance. Important equipment like Projectors, laptops are subjected to periodic preventive maintenance audits. Correction is done before any major issue happens.

The maintenance of all facilities is under the Supervision of Facilities team. There is a mail based complaint booking system

[ticketing system]. Any issue with any facility can be recorded here, by sending a mail. Anyone, including a student, can register the complaint. Based on the mail, a complaint ticket is raised with a specific reference number. The resolution time for various types of complaints are pre-estimated. At the end of the month, all tickets are analyzed for effectiveness of resolution. Any non-resolved complaint is taken up by Authorities concerned, for corrective action.

Utilization of labs and research facilities are recorded in log books.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://www.ssn.edu.in/facilities-sports-annexes/

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

5.1.1.1 - Number of students benefited by scholarships and free ships provided by the Government during the year

340

File Description	Documents
Upload self attested letter with the list of students sanctioned scholarship	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Number of students benefited by scholarships and free ships provided by the Government during the year (Data Template)	[View File](#)

5.1.2 - Number of students benefitted by scholarships, free ships etc. provided by the institution / non- government agencies during the year

5.1.2.1 - Total number of students benefited by scholarships, free ships, etc provided by the

institution / non- government agencies during the year

533

File Description	Documents
Upload any additional information	View File
Number of students benefited by scholarships and free ships institution / non- government agencies in last 5 years (Date Template)	View File

5.1.3 - Capacity building and skills enhancement initiatives taken by the institution include the following: Soft skills Language and communication skills Life skills (Yoga, physical fitness, health and hygiene) ICT/computing skills

A. All of the above

File Description	Documents
Link to Institutional website	https://www.ssn.edu.in/life-at-ssn-clubs-at-ssn/
Any additional information	View File
Details of capability building and skills enhancement initiatives (Data Template)	View File

5.1.4 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

279

5.1.4.1 - Number of students benefitted by guidance for competitive examinations and career counseling offered by the institution during the year

706

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases Implementation of guidelines of statutory/regulatory bodies Organization wide awareness and undertakings on policies with zero tolerance Mechanisms for submission of online/offline students' grievances Timely redressal of the grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View File
Upload any additional information	View File
Details of student grievances including sexual harassment and ragging cases	**No File Uploaded**

5.2 - Student Progression

5.2.1 - Number of placement of outgoing students during the year

5.2.1.1 - Number of outgoing students placed during the year

759

File Description	Documents
Self-attested list of students placed	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Details of student placement during the year (Data Template)	View File

5.2.2 - Number of students progressing to higher education during the year

5.2.2.1 - Number of outgoing student progression to higher education

109

File Description	Documents
Upload supporting data for student/alumni	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of student progression to higher education	View File

5.2.3 - Number of students qualifying in state/national/ international level examinations during the year (eg: JAM/CLAT/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations)

5.2.3.1 - Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations) during the year

131

File Description	Documents
Upload supporting data for the same	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of students qualifying in state/ national/ international level examinations during the year (Data Template)	View File

5.3 - Student Participation and Activities

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

during the year

5.3.1.1 - Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national / international level (award for a team event should be counted as one) during the year.

44

File Description	Documents
e-copies of award letters and certificates	**No File Uploaded**
Any additional information	**No File Uploaded**
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/national/international level (During the year) (Data Template)	[View File](#)

5.3.2 - Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities (student council/ students representation on various bodies as per established processes and norms)

Students' participation in educational administration is facilitated by their inclusion as members in class committee. Each class has a Class Committee, which meets thrice a semester to take stock of progress of the Teaching Learning process and ensures necessary corrective actions on time.

Students' participation in improvement initiatives, is ensured by their inclusion as members of IQAC. They also take part in all the improvement initiatives of the institution through participation in IQAC.

All co-curricular and extra-curricular activities are monitored by various clubs- which are anchored by students. Technical activities are handled by respective Technical Associations. Extracurricular activities are anchored by various clubs like Photography club, music club etc.

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/life-at-ssn-clubs-at-ssn/
Upload any additional information	View File

5.3.3 - Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions)

5.3.3.1 - Number of sports and cultural events/competitions in which students of the Institution participated during the year

80

File Description	Documents
Report of the event	**No File Uploaded**
Upload any additional information	View File
Number of sports and cultural events/competitions in which students of the Institution participated during the year (organized by the institution/other institutions (Data Template)	View File

5.4 - Alumni Engagement

5.4.1 - There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

SSN has an Alumni Association, which is a Government Registered Body under Societies Act 133/2018. It facilitates tapping the expertise and assistance of the 18,000 strong network of SSN graduates. Currently the association has 3 chapters in Chennai, Bengaluru and US. It has core committees and faculty coordinators from each department.

Alumni association contributes significantly for the growth of the Institution. The Annual meet, Tribute, which falls in the first Saturday of every year, is the time when alumni from across the globe come to campus and review their association with the institution. Contribution is both in financial and non-financial aspects.

Financial support includes Alumni Scholarship for deserving needy students.

Non-Financial support includes mentoring / guiding the students on various aspects of their career-like guiding for projects and mentoring for competitions, informing internship opportunities, creating awareness on how to go abroad for higher studies and support for placement.

File Description	Documents
Paste link for additional information	https://ssn.almaconnect.com/
Upload any additional information	View File

5.4.2 - Alumni contribution during the year (INR in Lakhs) | B. 4 Lakhs - 5Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of and in tune with the vision and mission of the institution

Our Vision is

"To be a world class institution for technical education and scientific research for public good."

Our Mission is SSN will strive continuously to:

• Make a positive difference to society through education.

• Empower students from across socio economic strata.

• Be a centre of excellence in education in emerging technologies in accordance with industry and industrial trends.

• Build world class research capabilities on par with the finest in the world and broaden students' horizons beyond classroom education.

- Nurture talent and entrepreneurship and enable all-round personality development in students.

The Vision statement focusses on enriching students by education, research and entrepreneurship training. All these are possible only by a trained set of capable faculties.

Teachers play a vital role by being a member of the Curriculum Committee, Board of Studies and Academic Council, in terms of generating the Regulations and Curriculum, for guiding the development of students. Their role in these Committees, helps in developing strategies.

In terms of implementation, they participate as Class advisors, Course Coordinators, Program Coordinators, and Mentors.

In addition, faculty drive student movements like National Service Scheme [NSS], National Sports Organisation [NSO], Youth Red Cross [YRC], Red Ribbon Club. [RRC] and Entrepreneurship Development Cells [EDC], thereby involving students in experiential learning for Personality and Character Development

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/about-ssn-management/
Upload any additional information	View File

6.1.2 - The effective leadership is visible in various institutional practices such as decentralization and participative management.

There are two levels of Participative possibility in decision making.

The first level is involving all faculty to explore new ideas for Institutional Growth. These are called as AID [Activity for Institutional Growth] projects. The Second level is involving all Heads of departments for handling issues by rotation, by a process called Participative Change Management [PCM].

In AID projects, all possible growth needs are briefed and sent to all faculty, asking for volunteers to register which project they want to take up. Based on interest shown, projects are assigned to faculty. They work on a short term of two months and get back with initial results of testing an idea for implementation. Thus, many

new ideas can be pilot tested for further development.

When issues crop up, these are assigned to Heads of departments, in turns. They take the responsibility of developing a solution to the issue, by talking to other HoDs. On consensus, each solution is developed by various HoDs. These are taken up for implementation. There are also instances of Potential AID projects being taken over by HoDs for implementation, through PCM mode.

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/college-of-engineering/about-ssn-the-founder/
Upload any additional information	View File

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ perspective plan is effectively deployed

The Perspective plan is converted into a scheme of appraisal and deployed to all at the beginning of the academic year. This scheme is also revised once in three years, to improve the level of achievement.

Each faculty strives to score as much as they can, as per the scheme. This automatically takes the collective efforts towards the strategic goals planned by the Management.

Broadly, the goals are set in four aspects

- **Teaching /Learning**
- **Research outcomes**
- **Institutional Building Activities and**
- **Student feedback**

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.ssn.edu.in/research-centre-ssn-institutions/research-statistics/
Upload any additional information	**No File Uploaded**

6.2.2 - The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, etc.

The Institution has well defined policies and Service Rules, which are disseminated to all concerned. Functional heads are guided by Key tasks. The availability of grievance cell that is accessible by mail, is a check pint for any unforeseen excesses.

Annual performance appraisal reviews the achievements, identifies scope for improvement and forms the basis for the next year's target setting. This ensures effectiveness of all functions and Institutional bodies.

File Description	Documents
Paste link for additional information	**Nil**
Link to Organogram of the institution webpage	**Nil**
Upload any additional information	View File

6.2.3 - Implementation of e-governance in areas of operation Administration Finance and Accounts Student Admission and Support Examination	**A. All of the above**

File Description	Documents
ERP (Enterprise Resource Planning)Document	View File
Screen shots of user inter faces	View File
Any additional information	**No File Uploaded**
Details of implementation of e-governance in areas of operation, Administration etc(Data Template)	View File

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non- teaching staff

SSNCE is deeply committed to the well-being and welfare of its faculty, staff members and their families. We believe that good health and a well-adjusted work-life balance are essential for

productive living. Towards the same, SSNCE has provisioned for a bouquet of offerings to its members and/or their families to inculcate a healthy work-life balance principle. Some of the current offerings are as stated below:

During Pandemic SSN Institution is geared up to keep the students, staff and visitors safe by following strict COVID-19 protocol procedures both on and off campus in a self-disciplined way at all times. Covid leave policy is generated, Other significant welfare measures include:

• Annual health check-up with dental coverage

• Medical coverage - Domiciliary and Hospitalization, Term Life & Personal Accident

• Leave Travel Assistance

• Marriage gift

• New born child gift

• Diwali gift

• Fee concessions to the wards of employees who gain admission in SNU Chennai

• Cash award to Best Teaching Faculty

• Maternity benefits

Access to

- Indoor Sports Complex facilities - Badminton, Basketball, Chess, Gym, Squash, Table Tennis, Carrom, Chess and Yoga

- Outdoor games - Athletics, Tennis, Basketball, Volleyball, Throw Ball, Ball Badminton, Football & Cricket

• 24*7 Doctor on call

• Library facility

• On-campus TMB Bank, ATMs, Unisex Saloon, Laundry service

• Wi-Fi and intercom facility

- **Security and CCTV facility**

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/facilities-wi-fi/
Upload any additional information	View File

6.3.2 - Number of teachers provided with financial support to attend conferences/ workshops and towards membership fee of professional bodies during the year

6.3.2.1 - Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the year

84

File Description	Documents
Upload any additional information	**No File Uploaded**
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the year

6.3.3.1 - Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff during the year

48

File Description	Documents
Reports of the Human Resource Development Centres (UGCASC or other relevant centres).	**No File Uploaded**
Reports of Academic Staff College or similar centers	**No File Uploaded**
Upload any additional information	View File
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff (Data Template)	View File

6.3.4 - Number of teachers undergoing online/face-to-face Faculty development Programmes (FDP) during the year (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course etc.)

6.3.4.1 - Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course during the year

217

File Description	Documents
IQAC report summary	**No File Uploaded**
Reports of the Human Resource Development Centres (UGCASC or other relevant centers)	**No File Uploaded**
Upload any additional information	View File
Details of teachers attending professional development programmes during the year (Data Template)	View File

6.3.5 - Institutions Performance Appraisal System for teaching and non- teaching staff

For faculty, Performance Appraisal is done by evaluating their achievements in four categories -Teaching /Learning, Research, Institutional Building and Student feedback. The weightage for various cadre of faculty, differs in each of these categories. For example, a Professor will have a higher weightage for research outcomes, whereas an Assistant professor will have more weightage

for his Teaching/Learning outcomes.

For Staff also, a similar scheme, with evaluation of assigned tasks and how they are carried out, willingness to learn etc is in practice.

All tasks are defined in a quantitative manner, as far as possible, to enable objective evaluation.

The incentives are based on the outcome of this appraisal.

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/career-form/
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly Enumerate the various internal and external financial audits carried out during the year with the mechanism for settling audit objections within a maximum of 200 words

The internal financial audit is carried out every year, by the Auditors from the Shiv Nadar Foundation. The external audit is carried by the authorized chartered Accountant at the end of the financial year. Any audit objection is presented to the finance team of the institution which immediately complies by ensuring a process of rectification and corrective action.

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/wp-content/uploads/2021/09/Audited-Statement-2019-20.pdf
Upload any additional information	View File

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

6.4.2.1 - Total Grants received from non-government bodies, individuals, Philanthropers during the year (INR in Lakhs)

9

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Any additional information	**No File Uploaded**
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the year (Data Template)	[View File](#)

6.4.3 - Institutional strategies for mobilization of funds and the optimal utilization of resources

Main source of funds is the fee paid by students. A small fraction comes from donations from Stakeholders including alumni and Philanthropists. The shortfall is met by funds from the Shiv Nadar Foundation, as grants. Optimal utilization is ensured by an annual budgeting process wherein all requirements from departments are discussed and prioritized for clearance. All strictly adhere to the approved budget. Any unforeseen requirements are discussed with Management, for necessary clearances as Supplementary budget. This ensures funds are not wasted.

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/wp-content/uploads/2021/09/Audited-Statement-2019-20.pdf
Upload any additional information	**No File Uploaded**

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

The focus IQAC in SSNCE is to impart quality education, through its innovative, comprehensive and flexible education process. The National Assessment and Accreditation Council (NAAC) accredited our institution with A+ Grade in July 2017. The IQAC in SSN has been constituted and is functioning as per the recommendations of the National Assessment and Accreditation Council (NAAC) towards internalization and institutionalization of quality enhancement initiatives. Since quality enhancement is a continuous process, the prime task of the IQAC in our institution is to develop a system for conscious, consistent and catalytic improvement in the overall performance. It ensures the effective implementation of quality

initiatives through continuous auditing and periodic meetings.

IQAC – Vision

To ensure quality culture as the prime concern for SSN through institutionalizing and internalizing all the initiatives taken with internal and external support.

Objectives

- To develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
- To promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.

The IQAC, has been performing the following tasks on a regular basis:

1. Improving the quality of teaching and research by getting inputs from all stakeholders

2. Advising on best practices in academic and administration

3. Performing Academic and Administrative Audit and analysis

The IQAC has immensely contributed to the implementation of quality assurance strategies and processes at all levels. The Institute IQAC regularly meets every three months. The Institute IQAC provides support to

(a) Annual Quality Assurance Report (AQAR)

(b) Self-Study Reports of various accreditation bodies (ISO, NAAC, NIRF, NBA)

(c) Performance Based Appraisal System

(d) Stakeholder's feedback

(e) Academic and administrative Audit

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/naac-reports/
Upload any additional information	View File

6.5.2 - The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities

The IQAC Chairman conducted periodic meetings with the head of the departments and members of

IQAC meets once in three months and records the progress in each identified improvement area. For example, the IQAC Chairman conducted periodic meetings with the head of the departments and members of IQAC on the curriculum revision (R2021), wherein number of new courses have been introduced with an emphasis on academic flexibility. This exercise was completed, and a revised curriculum syllabus was put in place from the odd semester 2021-22.

The Institution provided different ICT facilities during the pandemic for teaching and learning using Online platforms such as Zoom, PANAPTO and Microsoft teams.

The Chairman - IQAC with the members, put forward the requirements for NBA accreditation of EEE, ECE, CSE, IT and BME programs in various meetings.

An Academic and Administrative Audit was carried out during the period. The Manager - Placement, presented the statistics and improvements in placement over the years with reference to number of companies visited, number of offers received etc., in different categories.

File Description	Documents
Paste link for additional information	https://www.ssn.edu.in/naac-reports/
Upload any additional information	View File

6.5.3 - Quality assurance initiatives of the institution include: Regular meeting of Internal Quality Assurance Cell (IQAC);	B. Any 3 of the above

Feedback collected, analyzed and used for improvements Collaborative quality initiatives with other institution(s) Participation in NIRF any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

File Description	Documents
Paste web link of Annual reports of Institution	https://www.ssn.edu.in/naac-reports/
Upload e-copies of the accreditations and certifications	View File
Upload any additional information	View File
Upload details of Quality assurance initiatives of the institution (Data Template)	View File

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

- **Gender Equality and women empowerment are practiced in SSN.**
- **SSN has better gender equality ratio than the Indian average of 25%.**
- **SSN has 1548 girls out of 4226 students [including MBA] [36.6%]**
- **Out of 245 faculty, 105 are women [43%]**
- **Both in leadership and in faculty, women occupy prominent positions.**
- **Out of 12 department heads, seven are women.**

File Description	Documents
Annual gender sensitization action plan	**Nil**
Specific facilities provided for women in terms of:a. Safety and security b. Counseling c. Common Rooms d. Day care center for young children e. Any other relevant information	**Nil**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation measures Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power efficient equipment	B. Any 3 of the above

File Description	Documents
Geo tagged Photographs	View File
Any other relevant information	View File

7.1.3 - Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 200 words) Solid waste management Liquid waste management Biomedical waste management E-waste management Waste recycling system Hazardous chemicals and radioactive waste management

Management of liquid waste:

The wastewater generated on campus is processed at the sewage treatment plant. The purified wastewater is used for toilet flushing and gardening.

E-waste management:

The College ensures that e-wastes are stored in properly labelled containers earmarked for this purpose; the wastes are segregated and sorted; waste that cannot be recycled or refurbished is sold to certified agents.

Hazardous chemicals waste management:

These kinds of waste are separately managed by the lab assistants by representing the wastes using red tags. They're kept far from the non-hazardous chemicals by following the correct procedure.

File Description	Documents
Relevant documents like agreements / MoUs with Government and other approved agencies	**No File Uploaded**
Geo tagged photographs of the facilities	View File

7.1.4 - Water conservation facilities available	A. Any 4 or all of the above

in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

File Description	Documents
Geo tagged photographs / videos of the facilities	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. **Restricted entry of automobiles** 2. **Use of bicycles/ Battery-powered vehicles** 3. **Pedestrian-friendly pathways** 4. **Ban on use of plastic** 5. **Landscaping**	**A. Any 4 or All of the above**

File Description	Documents
Geo tagged photos / videos of the facilities	[View File](#)
Various policy documents / decisions circulated for implementation	**No File Uploaded**
Any other relevant documents	**No File Uploaded**

7.1.6 - Quality audits on environment and energy are regularly undertaken by the institution

7.1.6.1 - The institutional environment and energy initiatives are confirmed through the following 1.Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5. Beyond the campus environmental promotional activities	**C. Any 2 of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	**No File Uploaded**
Certification by the auditing agency	**No File Uploaded**
Certificates of the awards received	**No File Uploaded**
Any other relevant information	<u>View File</u>

7.1.7 - The Institution has disabled-friendly, barrier free environment Built environment with ramps/lifts for easy access to classrooms. Disabled-friendly washrooms Signage including tactile path, lights, display boards and signposts Assistive technology and facilities for persons with disabilities (Divyangjan) accessible website, screen-reading software, mechanized equipment 5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading	**C. Any 2 of the above**

File Description	Documents
Geo tagged photographs / videos of the facilities	<u>View File</u>
Policy documents and information brochures on the support to be provided	**No File Uploaded**
Details of the Software procured for providing the assistance	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 200 words).

By admission process, 25 rural toppers are selected from government High Schools. This gives an opportunity for rural students to move on par with others.

By the walk-in-walk-out scholarships, students who are toppers from

various Boards across India, join our Institution.

By People of Indian Origin quota, students from abroad join us. Also through liaison with Study in India Team, students from various countries / ethnic background join us.

Thus the admission process ensures a mix of various cultures and social backgrounds. Their presence in campus, enables mutual learning from each other for peaceful and harmonious living.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)
Any other relevant information	No File Uploaded

7.1.9 - Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens

SSN organizes a variety of programmes to educate students and staff about their constitutional commitments, including principles, rights, and responsibilities.

Additionally, courses such as Professional Ethics and Environmental Science, highlight to students the importance of a commitment to ethical standards in their field, as well as the importance of enhancing our environment to avoid further ecosystem degradation due to human activity. In the Regulation 2021, a new subject has been introduced on the Indian Constitution. Republic day and independence day are celebrated in a grand manner.

SSN has an Incubation center to promote entrepreneurship.

NSS and YRC clubs regularly conduct number of socially relevant programs towards sensitizing student and faculty to carry out their duties and responsibilities in order to give back to the society.

File Description	Documents
Details of activities that inculcate values; necessary to render students in to responsible citizens	Nil
Any other relevant information	Nil

7.1.10 - The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard. The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff　　4. Annual awareness programmes on Code of Conduct are organized	B. Any 3 of the above

File Description	Documents
Code of ethics policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programs etc., in support of the claims	No File Uploaded
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Republic Day is celebrated every year with great enthusiasm. Various departments and Hostel students organised a program of Patriotic songs after flag hoisting every year.

Independence Day is celebrated every year. The institution is committed to the national and social causes and it celebrates various national festivals, important days and birth/death anniversaries of the great Indian personalities.

File Description	Documents
Annual report of the celebrations and commemorative events for the last (During the year)	No File Uploaded
Geo tagged photographs of some of the events	No File Uploaded
Any other relevant information	No File Uploaded

7.2 - Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Practice 1 – Inculcating a research culture in students

By internal funding of student projects, many students have been inducted into research at a very early stage. This has resulted in good publications, facilitating the students to get better jobs and to get higher study opportunities in good Institutions. This has been improving year on year with a current statistic s of around 150 student teams involved in research every year, funded to the tune of around Rs.40 lakhs every year.

Practice 2 – Gearing up for Covid norms of Online teaching

Covid suddenly demanded a non-contact based teaching learning methodology. This required both attitude change by faculty and digital accessories for imparting online learning. The Institution quickly provided all necessary gadgets for online teaching. The faculty were quickly trained to the new normal, by incorporating a body called SCIPE – SSN Centre for Innovative Practices in Education. Faculty geared up soon for conducting both theory and Lab classes in online mode. The Institution also geared up with necessary software support system for conducting proctored online assessments.

File Description	Documents
Best practices in the Institutional website	https://www.ssn.edu.in/life-at-ssn-clubs-at-ssn/
Any other relevant information	https://sites.google.com/ssn.edu.in/eml-ssnce/home?authuser=0

7.3 - Institutional Distinctiveness

7.3.1 - Portray the performance of the Institution in one area distinctive to its priority and thrust within 200 words

One of the priorities of SSN is to ensure inclusive education and to support the economically weak students. While several scholarships are offered for merit, there are two scholarships that ensure inclusivity.

1.Scholarship for Potential Under-Graduate Rural Students (SPURS)

SPURS is a unique feature in the overall scholarship program at SSN. Twenty-five toppers from rural Government schools are selected for free education at the UG level every year. This is a small step taken by SSN to bridge the urban-rural divide in the country. These students also participate in a specially designed bridge-program prior to start of the regular academic session to equip them face the rigors of engineering education.

2.Merit-cum-Means Scholarship

Every academic year, several scholarships are awarded on the criteria of merit-cum-means. Academic performance and demonstrated economic need are the key criteria for this scholarship.

File Description	Documents
Appropriate web in the Institutional website	View File
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

Since NACC facilitates all round improvement in the functioning of any Institution, SSNCE will work towards retaining and improving the NAAC awarded score of 3.55.

On similar grounds, SSNCE will try to retain/ improve the NIRF score of 50.