YEARLY STATUS REPORT - 2021-2022

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. of the Principal	04427469752
• Alternate phone No.	04427469700
• Mobile No. (Principal)	9840359093
• Registered e-mail ID (Principal)	principal@ssn.edu.in
• Address	Rajiv Gandhi Salai(OMR), Kalavakkam
• City/Town	Kalavakkam
• State/UT	Tamil Nadu
• Pin Code	603110
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	28/03/2018
• Type of Institution	Co-education
• Location	Rural

• Financial Status	**Self-financing**
• Name of the IQAC Co-ordinator/Director	**Dr.N.Venkateswaran**
• Phone No.	**04427469700**
• Mobile No:	**9443468070**
• IQAC e-mail ID	**info@ssn.edu.in**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.ssn.edu.in/wp-content/uploads/2022/02/AQAR2020_21.pdf
4.Was the Academic Calendar prepared for that year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.ssn.edu.in/wp-content/uploads/2022/10/Calendar-of-events-2021-22_Online-issue.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 Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
ECE	NLTM - BHASHINI	MeiTY	22/02/2022	8762000
ECE	NLTM - BHASHINI	MeiTY	22/03/2022	9900000
ECE	Indo-Srilankan Joint Project Scheme	DST	21/09/2022	2088364
ECE	LRDE, Ministry of Defence	DRDO	21/07/2022	971376
CSE	GCI-IDIA scheme	BIARC	11/02/2022	5001000
CSE	EEQ scheme	DST	15/02/2019	2814000
CSE	BIG Scheme	BIRAC	20/08/2022	5000000
CSE	RPS Scheme	AICTE	22/02/2022	959000
BME	POWER	SERB	01/06/2021	2594000
BME	CRG	SERB	01/08/2021	4403000
BME	-	IGCAR	01/08/2021	2434000
BME	RPS	AICTE	01/01/2022	413000
MECH	RPS	AICTE	10/02/2022	1454596
MECH	-	Naval Research Board (NRB)	27/01/2022	4205000
MECH	-	Ministry of Mines	12/01/2022	2905000
CHEMISTRY	-	SERB	01/02/2022	6046392
EEE	-	SERB	08/06/2020	2974400
EEE	-	DST	01/02/2022	1530000

8.Provide details regarding the composition of the IQAC:		
• Upload the latest notification regarding the composition of the IQAC by the HEI	View File	
9.No. of IQAC meetings held during the year	**4**	
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	**Yes**	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Did IQAC receive funding from any 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)

Introduction of Choice Based Credit System
Organized number of Online / Offline programs for both the students and staff.
Efforts to establish Technology Business Incubator and promote entrepreneurship through SSN ifound. .
Introduction of Minor projects in the revised Curriculum
Focused towards socially responsible and sustainable activities.

12.Plan of action chalked out by IQAC at 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 take up Curriculum Revision of all post graduate Programs	Curriculum for all Post graduate programs revised as R2022
To promote activities towards sustainability and participate in the Sustainability Tracking, Assessment & Rating System (STARS)	Proposed and conducted many activities
To have higher level of interaction with industries through Faculty internships	Discussions and Interactions with many industries is established
To facilitate consultancy projects through Industry collaboration and to improve on the Number of patents and external funded research projects received	Achieved the goal by improving these activities.
To Promote innovation culture by providing seed money through SSN Incubation Foundation	Six incubation startups have been initiated
To Conduct External Academic audit for the programmes	Performed the academic audit for all the departments with external Experts.
To initiate Socially responsible and sustainable activities	Installation of renewable energy through solar power up to 2 MW of peak power
To conduct Quality audits on environment and energy	IGBC Green campus certification registration
13.Was the AQAR placed before the statutory body?	Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
ISO - Surveillance Audit - 2021 by TUV NORD Auditors	01/12/2021

14.Was the institutional data submitted to AISHE ?	Yes

- Year

Year	Date of Submission
2021-22	13/02/2023

15.Multidisciplinary / interdisciplinary

As defined by AICTE, several Open electives are introduced for learning concepts from other disciplines. Also, the concept of grouping electives in order to specialize in a specific stream and the opportunity to earn "Honours" degree, by taking up six additional subjects, have been introduced . These approaches enable a multi-disciplinary and inter disciplinary approach to studies.

16.Academic bank of credits (ABC):

Our institution is in the process of formulating a method for the execution of ABC. However, implementation is possible only after guidelines from the affiliating Anna University.

17.Skill development:

Skill development can be done only by practice and hence the concept of integrating practice with theory, has been introduced in many subjects. This includes concepts like Project Based Learning. This approach facilitates skill development along with knowledge development.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

Our institution allows students to learn Indian Knowledge system through number of co-curricular and extracurricular activities through number of active clubs. Exclusive slot in Time Table as "Personality and Character Development [PCD] " is provided for students to take part in such activities. Students actively participate in Yoga, Holistic Health, Painting, Music (Vocal), Music (Instrumental), Film Making, entrepreneurial development etc. Our Institution organises intra and inter college events to promote these events.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

All programs are defined according to expected outcomes of Graduates, as defined by National Board of Accreditation guidelines. This involves identifying Course Outcomes and Program Outcomes, while revising the curriculum. As such, all eligible programs of SSNCE are accredited by NBA.

Students are assessed as per OBE attainment model. The Examination questions framed are based on Bloom's Taxonomy of cognitive processes for all our assessment methods including Internal and End-Semester Examinations, value added courses, entrepreneur programs, Internships, projects, Viva-Voce, Assignments etc., Stakeholders' feedback is also considered to understand the effectiveness of OBE.

20.Distance education/online education:

Through the well-designed curriculum, SSNCE encourages students to learn courses through online mode. Faculty follow the methods of teaching and learning practices such that it is learner centric. Faculty members regularly use number of prominent ICT tools that include LMS link to the video lectures, Virtual lab practical, LMS for conducting Internal Assessment Tests.

Faculty upload the teaching material on the LMS platform that supports Online learning.

Faculty members are also continuously updating their knowledge by NPTEL/Swayam certifications.

Students can earn upto six credits through online courses and exchange it against their electives of eighth semester.

Extended Profile

1.Programme

1.1   **19**

Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.Student

2.1   **3793**

Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2   **1292**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3   **3793**

Number of students who appeared for the examinations conducted
by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1   **19**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2   **248**

Number of full-time teachers during the year:

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	**19**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.Student

2.1 Total number of students during the year:	**3793**

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2 Number of outgoing / final year students during the year:	**1292**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3 Number of students who appeared for the examinations conducted by the institution during the year:	**3793**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.Academic

3.1 Number of courses in all programmes during the year:	**19**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.2 Number of full-time teachers during the year:	**248**

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

3.3 Number of sanctioned posts for the year:	**252**

4.Institution

4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**746**
4.2 Total number of Classrooms and Seminar halls	**119**
4.3 Total number of computers on campus for academic purposes	**2137**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**5069**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

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.
- The local, national, regional and global developmental needs are identified through feedback from stakeholders are built into the syllabus.
- Special focus is given to Sustainable Development Goals. One exclusive elective on SDG has been introduced and all the SDG coverage of various subjects has been mapped.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	https://www.ssn.edu.in/college-of-engineering/mech-peos-and-pos/

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

19

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	[View File](#)
Details of syllabus revision during the year	[View File](#)
Any additional information	[View File](#)

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

```
50
```

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	**No File Uploaded**
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

```
65
```

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

```
19
```

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	View File
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values 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 one separate elective 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.

Each department has faculty trained in Human Values, by FDP offered by AICTE, and these trained faculty only handle the subject in their department.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

37

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	View File
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

966

File Description	Documents
List of students enrolled	View File
Any additional information	View File

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

729

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	View File

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	**A. All 4 of the above**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.ssn.edu.in/alumni-introduction/
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	View File
Any additional information	View File

1.4.2 - The feedback system of the Institution comprises the following	**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://www.ssn.edu.in/alumni-introduction/
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

973

File Description	Documents
Any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

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

688

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 students' learning levels and organises special programmes for both slow and advanced learners.

The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Learning levels are assessed after each CAT, by the student's performance in CAT. Generally, those who fail, are classified as slow learners and those who score more than 75% marks are considered fast learners. Those in between are treated as average performers.

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
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
31/07/2022	**3793**	**248**

File Description	Documents
Upload 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:

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 including online resources for effective teaching and learning

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.

Online learning through MOOC like NPTEL and SWAYAM are permitted and upto six credits can be exchanged for such online earned credits.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	**Nil**
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

237

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

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.**

Teaching Plans are developed by each faculty, with details of coverage for each lecture, method of assessment to be used etc . These are verified and approved by the head of the department, one week before the commencement of the classes.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

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

248

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	**No File Uploaded**

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

233

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

3020

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

`13 days on an average`

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	[View File](#)
Any additional information	No File Uploaded

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

`0`

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

`The entire examination process has speeded up the functioning of COE department with the availability of number of IT resources in SSNCE. All the machines can connect to the Internet through proxy service. Access control is also there to restrict access to certain sites. These access control policies may change from time to time. For the stakeholder's perspective, IT enabled examination process such as form filling up, Online Admit card generation, Internal marks Capture, result publication etc. are done. During Covid period Digital Marking for the evaluation of answer booklets was practiced. Campus web service is running atwww.ssn.net. SSNCE maintains a repository of some useful and freeMicrosoft Windows basedandNon-MS Windowsbased software. opac.ssn.net is available for online book search, reservation, Etc., NPTEL eLearning course materials that have been uploaded in the intranet at http://www.ssn.net/nptel/. The corresponding video courses are also available at http://nptel.ssn.net/.`

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

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the 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.
- Both POs and COs are displayed in the website.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	[View File](#)
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

1. Each course has COs that are mapped to the Program Outcomes.
2. The Institution has a common approach for deducing the attainment of CO and PO.
3. The faculty follows the standard method and calculates the attainment levels after each end semester exam.
4. 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	**Nil**

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1236

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	[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/2023/02/SSR-REPORT-2020-21.pdf

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

Research promotion is done by various methods like incentives, Career Advancement Norms and as part of Annual Faculty Appraisal. Research promotion schemes and Incentives are listed in website.In addition to these, each department has special-interest-groups working on thrust areas

Separate Entrepreneurship Development Cell addresses entrepreneurial needs of students.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	**No File Uploaded**
Provide URL of policy document on promotion of research uploaded on the website	https://www.ssn.edu.in/research-centre-ssn-institutions/research-statistics-research-advisory-council/
Any additional information	**No File Uploaded**

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

98.3

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	**No File Uploaded**
Any additional information	**No File Uploaded**

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

20

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	**No File Uploaded**

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

878.83

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	View File

3.2.2 - Number of teachers having research projects during the year

39

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.ssn.edu.in/research-centre-ssn -institutions/research-statistics- internally-funded-projects/
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

158

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

12

File Description	Documents
Supporting document from Funding Agencies	[View File](#)
Paste link to funding agencies' website	https://www.serbonline.in/SERB/HomePage
Any additional information	**No File Uploaded**

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

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. 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. There are nine dedicated inter disciplinary Research Centres of Excellence for :

1. Energy

2. Materials

3. Smart Technologies

4. Machine Learning

5. Healthcare Technologies

6. Speech Technologies

7. Radiation and Environmental Engineering

8. Water

9. Industry 4.0

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional information	[https://www.ssnifound.in/]()

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

138

File Description	Documents
Report of the events	[View File]()
List of workshops/seminars conducted during the year	[View File]()
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee	A. All of the above

Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	**No File Uploaded**

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

108

File Description	Documents
URL to the research page on HEI website	https://www.ssn.edu.in/research-centre-ssn-institutions/
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	**No File Uploaded**

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

599

File Description	Documents
List of research papers by title, author, department, and year of publication	View File
Any additional information	**No File Uploaded**

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

88

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

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

9495

File Description	Documents
Any additional information	[View File](#)
Bibliometrics of the publications during the year	[View File](#)

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

39

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	[View File](#)
Any additional information	[View File](#)

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

39.5066

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

39.5066

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the 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
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.ssn.edu.in/life-at-ssn-clubs-at-ssn/

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

2

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	**No File Uploaded**

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

44

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

3298

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

459

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

31

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	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 equipments, 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	**No File Uploaded**
Paste link for additional information	https://www.youtube.com/watch?v=A-vNlIpHp3U

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium 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:

- **SSN students can get trained by the Yoga Practitioner and also participate in events conducted at college level, University level and National level.**

- **Services of a qualified Yoga Trainer are available in the college.**

File Description	Documents
Geotagged pictures	View File
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.ssn.edu.in/facilities-sportsannexes/

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

119

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

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

5069.04

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	**No File Uploaded**

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 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	[View File](#)
Upload any additional information	[View File](#)

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

Rs 139.62lakhs

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

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

210

File Description	Documents
Upload details of library usage by teachers and students	[View File](#)
Any additional information	[View File](#)

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

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.

There is an Institution wide IT policy, covering all aspects of Wi-Fi, cyber Security, access controls etc. The IT department has exclusive annual budget for upgradation of IT facilities.

Details of Internet facility :1Gbps fromAirtel Network and 1Gbps - JIO Network

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

27-02-2023 03:47:53

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3793	2137

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	No File Uploaded

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

B. Any three of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://lms.ssn.edu.in/
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

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

5069

File Description	Documents
Audited statements of accounts	[View File](#)
Upload any additional information	[View File](#)

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, 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	**No File Uploaded**
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 benefitted by scholarships and freeships provided by the Government during the year

585

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	**No File Uploaded**

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

481

File Description	Documents
Upload any additional information	**No File Uploaded**
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology	**A. All of the above**

File Description	Documents
Link to Institutional website	**Nil**
Details of capability development and schemes	View File
Any additional information	**No File Uploaded**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1663

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	**A. All of the above**

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

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

941

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	**No File Uploaded**

5.2.2 - Number of outgoing students progressing to higher education

103

File Description	Documents
Upload supporting data for students/alumni	**No File Uploaded**
Details of students who went for higher education	View File
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

178

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

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

32

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

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.

27-02-2023 03:47:53

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
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://www.ssn.edu.in/life-at-ssn-clubs-at-ssn/

5.3.3 - Number of sports and cultural events / competitions organised by the institution

35

File Description	Documents
Report of the event	**No File Uploaded**
List of sports and cultural events / competitions organised per year	[View File](#)
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The SSN Alumni Association is a dynamic group of graduates and former students of the SSN College of Engineering who have come together to support each other and their alma mater. The association has a strong presence with local chapters that facilitate connections between alumni in different regions. One of the key initiatives of the SSN Alumni Association is the SSN Alumni Scholarship, which provides financial support to deserving students. The association has been very active in supporting this scholarship, collecting more than 10 lakhs year after year. This support helps to provide access to education for talented students who may not have the means to pursue their studies otherwise. We have 18000+ strong alumni network. In addition to providing financial support, the SSN Alumni Association also offers mentorship, career guidance, and professional development opportunities to its members and current students. Through these

initiatives, the association helps to create a supportive community of alumni who are dedicated to promoting the success of the institution and its students. The contributions made by the SSN Alumni Association to the development of the college are significant and impactful. By providing financial support, professional expertise, and advocacy, the association plays an important role in ensuring the success of the college and the success of its students

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.ssn.edu.in/alumni-alumni-scholarship/mentor-a-needy-student/

5.4.2 - Alumni's financial contribution during the year	A. ? 15 Lakhs

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 an effective leadership 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
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.ssn.edu.in/college-of-engineering/about-ssn-ce-vision-mission/

6.1.2 - Effective leadership is reflected 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
Upload strategic plan and deployment documents on the website	**No File Uploaded**
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.ssn.edu.in/about-ssn-management/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

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. At the beginning of 2021-22, the scheme was revised, after several deliberations with faculty and Heads of departments.

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

   1. Teaching /Learning
   2. Research outcomes
   3. Institutional Building Activities and
   4. 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/mandatory-disclosure/
Upload any additional information	**No File Uploaded**

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, 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 to Organogram on the institution webpage	**Nil**
Upload any additional information	**No File Uploaded**
Paste link for additional Information	https://www.ssn.edu.in/pay-fees-online-ssn/

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) Documen	View File
Screen shots of user interfaces	No File Uploaded
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

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**

Career development and progression is done through well-defined policies, giving transparent data on expectations.

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

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

106

File Description	Documents
Upload any additional information	View File
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 programmes organized by the Institution for its teaching and non-teaching staff during the year

94

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

143

File Description	Documents
Summary of the IQAC report	**No File Uploaded**
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	**No File Uploaded**

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

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
Upload any additional information	View File
Paste link for additional information	https://www.ssn.edu.in/mandatory-disclosure/ https://www.ssn.edu.in/wp-content/uploads/2022/12/SSNT-Financials-Fy.-21-22.pdf

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

450.7

File Description	Documents
Annual statements of accounts	View File
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	View File
Any additional information	**No File Uploaded**

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation 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
Upload any additional information	View File
Paste link for additional Information	**Nil**

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

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. 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.

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.

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

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

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 (R2022) for PG, 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 2022-23.

1. The Institution provided different ICT facilities during the pandemic for teaching and learning using Online platforms such as Zoom, PANAPTO and Microsoft teams.
2. The Chairman – IQAC with the members, put forward the requirements for NBA accreditation of EEE, ECE, CSE, IT and BME programs in various meetings.
3. 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
Upload any additional information	[View File](#)
Paste link for additional information	https://www.ssn.edu.in/naac-reports/

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://www.ssn.edu.in/naac-reports/
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	**No File Uploaded**

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 3793 students [including MBA] [40.8%]**
- **Out of 272 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
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**Nil**

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**A. Any 4 or All of the above**

File Description	Documents
Geotagged 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 a maximum of 200 words)

1. Solid waste management- Construction &Renovation related debris are collected and filled in sunken area like water stagnation. – approximate 146 metric tonnes of waste generated per year and 58 metric tonnes of waste per year was reused (i.e. around 40% of waste is reused.)
2. Liquid waste management – Disposal of used oils through authorized vendors
3. Biomedical waste management – Used Sanitary napkins, masks & gloves are disposed through incinerator.
4. E-waste management - Disposal of unused electronic items such as monitors, CPU through authorized vendors
5. Hazardous chemicals and radioactive waste management- As per concern department diluting with suitable neutralizing agent through HDPE pipe line after completing the experiments.
6. Waste recycling system – Organic Waste Composter having 200kg/day compost generation and using for garden manure purpose. (Collecting food wastes, dry & wet leaves & recycling). The Organic Waste Compost Machine is installed at the backyard of our SSN campus near Cricket ground for manufacturing natural organic manure from the available wastes from the campus. The materials like vegetable wastes, paper wastes, lawn mowing wastes, dried leaves etc. are collected and sent to the Compost machine periodically for preparing organic manure and the prepared manure is taken back and used at our campus for Landscaping purpose. The cycle is rotating daily and more manure will be prepared in future and the same may be useful for various purposes.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	No File Uploaded

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

system in the campus

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

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
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	**No File Uploaded**
Any other relevant documents	View File

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

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy 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	**A. Any 4 or all of the above**

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

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	No File Uploaded
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

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

1. 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.
2. By the walk-in-walk-out scholarships, students who are toppers from various Boards across India, join our Institution.

3. **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.**
4. **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)	**No File Uploaded**

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

1. **SSN organizes a variety of programmes to educate students and staff about their constitutional commitments, including principles, rights, and responsibilities.**
2. **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.**
3. **SSN has an Incubation center to promote entrepreneurship.**
4. **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 transform students into responsible citizens	[View File](#)
Any other relevant information	**No File Uploaded**

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts	**A. All of the above**

periodic sensitization 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 Annual awareness programmes on the Code of Conduct are organized	

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 programmes, etc. in support of the claims	**No File Uploaded**
Any other relevant information	**No File Uploaded**

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 during the year	View File
Geotagged photographs of some of the events	**No File Uploaded**
Any other relevant information	**No File Uploaded**

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

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/research-centre-ssn-institutions/research-statistics/
Any other relevant information	**Nil**

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 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 link in the institutional website	https://www.ssn.edu.in/life-at-ssn-scholarships/
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

1. 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.
2. On similar grounds, SSNCE will try to retain/ improve the NIRF score of 50.