YEARLY STATUS REPORT - 2023-2024

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.S.Radha
• Designation	Principal
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	04427469752
• Alternate phone No.	04427469700
• Mobile No. (Principal)	9381032356
• Registered e-mail ID (Principal)	principal@ssn.edu.in
• Address	Old Mahabalipuram Road, Kalavakkam
• City/Town	Kalavakkam
• State/UT	Tamilnadu
• 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/2024/02/AQAR-2022_2023.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/2024/09/Calendar-of-events-2024-25.pdf

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**A**	**3.13**	**2011**	**01/01/2011**	**30/06/2017**
Cycle 2	**A+**	**3.55**	**2017**	**17/07/2017**	**31/12/2023**

6.Date of Establishment of IQAC	**01/06/2009**

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
EEE	**SPARC**	**Ministry of Education**	**28/07/2023**	**5053816**
EEE	**Deep Ocean Mission scheme**	**MoES**	**13/10/2023**	**4618400**
ECE, MATHEMATICS	**Nil**	**MoES**	**14/12/2023**	**4816480**

ECE	Nil	Govt of India	18/10/2023	7500000
ECE	Nil	SERB	12/08/2024	2991000
ECE	SPARC	MHRD	28/07/2023	6310355
ECE, CSE	IMPRINT IIC	SERB	10/07/2023	5300000
CSE	Nil	ICMR	10/11/2023	12434000
INFORMATION TECHNOLOGY	CRG	SERB	21/11/2023	1966800
INFORMATION TECHNOLOGY	Nil	ST Microelectronics	06/05/2024	2578000
BME	CRG	SERB	05/10/2023	2273832
BME	Nil	SNF-IIC	17/02/2024	3965000
CHEMICAL	PRISM	DSIR	25/10/2023	630000
MECHANICAL	SURE	SERB	15/12/2023	596000
MECHANICAL	DFTM	DRDO	03/02/2024	4405500
MECHANICAL	TARE	SERB	13/05/2024	1830000
CIVIL, CHEMICAL	Nil	SNF-IIC	17/02/2024	4000000
MBA, IT, MECHANICAL, ECE	Nil	Aerovista Dynamics, Netherlands	17/02/2024	2200000
PHYSICS	Nil	SERB	18/03/2024	4922802
PHYSICS	Nil	CSIR	10/08/2023	2900000
PHYSICS	INAE	DST	17/08/2023	1191500
PHYSICS, ECE	SPARC	MHRD	29/04/2024	7932000
CHEMISTRY	Nil	SNF-IIC	17/02/2024	764000
BME	Jancare	BIRAC-AGC	15/11/2023	2000000

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)

? Updating of Policy defining incentives for publication, projects, patent and consultancy. ? Support to Innovation Eco systems through SSN ifound, IIC. Entrepreneurship Development Cell. ? Continued use of Plagiarism check through software before submission of research papers. ? Introduction of Teaching Assistants scheme and Policy for stipend support to research scholars ? Promotion of Gender Equity through student Clubs and Cocurricular 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
As a part of inculcating entrepreneurial culture among the students, existing Incubation Cells needs to be allocated by identifying potential projects on priority basis.	Incubation support strengthened by SSN iFound, Build Club and Entrepreneurship Development Cell (EDC)
Starting of the Training for Competitive examinations for the aspiring students	Training for competitive examinations introduced in 2023
Implementation of learning process based on digital lean solutions for products and services as a part of curriculum in all disciplines	Included in R2024
Installation of Water Coolers with a capacity at least 150 liters capacity on each floor of all the academic buildings and Hostels	Water coolers in specified locations installed in 2023
Taking up Initiatives for Academic Audit, Green Audit and Energy Audit	Audits carried out as per the plan
Introduction of 24X7 online feedback system	Enabled through email

13.Was the AQAR placed before the statutory body?	No
• Name of the statutory body	

Name of the statutory body	Date of meeting(s)
Nil	Nil

14.Was the institutional data submitted to AISHE ?	Yes
• Year	

Year	Date of Submission
2023	13/02/2023

15.Multidisciplinary / interdisciplinary

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 specialise in a specific stream and the opportunity to earn "Honours" degree, and "Minor" degree, by taking up six additional subjects, have been introduced.

16.Academic bank of credits (ABC):

Academic bank of credits (ABC) As of now, transfer of credits is permitted between the 450 colleges of Anna University. Example 1- PhD scholars can do the recourse work in any of the colleges of Anan University. Example 2 – At the beginning of every academic year, lapsed seats of any Institution can be filled by transfer candidates from other Institutions of Anna University. For full implementation of ABC, we are awaiting direction from Affiliating University.

17.Skill development:

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 a number of co-curricular and extracurricular activities facilitated by a large 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:

Students can earn up to six credits through online courses and exchange it against their electives of eighth semester. They can also do up to six credits for their Honours subjects, from SWAYAM curses. 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 [Learning Management System] link to the video lectures, Virtual lab practical, and provisions 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.

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   **4012**

Total number of students during the year:

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

2.2   **1019**

Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3   **4012**

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   **1150**

Number of courses in all programmes during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2   **256**

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:	**4012**

File Description	Documents
Institutional data in Prescribed format	View File

2.2 Number of outgoing / final year students during the year:	**1019**

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:	**4012**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 Number of courses in all programmes during the year:	**1150**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 Number of full-time teachers during the year:	**256**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.3 Number of sanctioned posts for the year:	**256**

4.Institution

4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**585**
4.2 Total number of Classrooms and Seminar halls	**119**
4.3 Total number of computers on campus for academic purposes	**2834**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**16655**

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.

The curriculum for all the UG and PG programmes have been meticulously designed to be innovative and conforming to current needs and implemented successfully. Further, the implemented curriculum is continuously reviewed and updated through a robust system.

The curriculum prepares the students to be industry ready and

socially conscious professionals. 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.

Local and regional needs addressed by programme curricula:

- Graduate Engineers contribute to the emerging manufacturing sectors and service-based industries locally.

- Computer Science and IT Engineers efficiently integrate AI, AR, VR and XR in industries.

- Engineering Graduates contribute to the Electric Vehicle (EV) industry.

National needs addressed by programme curricula:

- Skilled Engineers who can design, build and manage sustainable infrastructure.

- Engineering Graduates are efficient in Public Services and Citizens with civic sense.

Global needs addressed by programme curricula:

- Graduate Engineers educated and aware of global issues and challenges in sustainable development and climate change.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	https://www.ssn.edu.in/wp-content/uploads/2024/02/1.2_BoS-Minutes-signed.pdf

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

00

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

98

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	View File
Any additional information	View File

1.2 - Academic Flexibility

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

13

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

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

- Course on Universal Human Values

- Courses on Regional Linguistics and their role in Technology

- Mandatory course on Environmental Science

- Mandatory course on Indian Constitution

- Elective course on Professional Ethics

- Elective course on Sustainability Goals

- Management Elective courses integrating workplace culture and its management

- Humanities Elective courses covering societal and interpersonal relationships and its management

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

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.

As suggested in NEP 2020, Interdisciplinary courses are offered through two Open electives and through Minor degree program options.

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

19

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	View File

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

692

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

1024

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/wp-content/uploads/2024/12/Stakeholder%20Curriculum%20Feedback_Sample_AY2023-24.pdf
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/wp-content/uploads/2024/12/Stakeholder%20Curriculum%20Feedback_Sample_AY2023-24.pdf
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

1131

File Description	Documents
Any additional information	View File
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)

952

File Description	Documents
Any additional information	View File
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 counselled 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 an Honors degree or a Minorin 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	https://www.ssn.edu.in/life-at-ssn-clubs-at-ssn/

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
25/05/2024	4012	256

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:

• 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

• Problem Solving - by offering real life situations and facilitating group discussion in subjects like Professional Ethics and also in core courses; 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-work done individually by students at home 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	https://www.ssn.edu.in/life-at-ssn-facilities/

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

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.

Of late, faculty are being trained in using mobiles effectively in classrooms for engaging the students for mid lecture interruptions by suitable questions.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://www.ssn.edu.in/college-of-engineering/cse-infrastructure/
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

256

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.

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.

• 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 [LM Mentors take care of discussing with the identified slow learners and also arrange for additional / special 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

256

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	[View File](#)

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

250

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)

3155

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

21

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

Examination procedures have been revised to take advantage of digital technologies. Test and exam schedules are announced by the CoE.Internal assessment is centrally monitored by CoE. Robustness and Transparency is ensured.

• Question papers are scrutinized by a team of assigned faculty in each department

• Centrally appointed squad audits the various locations of test.

• 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.

After conducting the tests, the marks are uploaded into CoE portal, where CO attainments are calculated based on question wise marks uploaded and their mapping to COs. This initiative for R2021 has seamlessly integrated assessment mark entry and accreditation related attainment data.

Similarly, students are given a fair chance to review their answer sheets and request for a revaluation, if needed. Grievance, if any, can be brought to the notice of the authorities through a mail id.

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
Upload any additional information	[View File](#)
Paste link for additional Information	https://www.ssn.edu.in/grievance-redressal/

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 the UG programs and most of the PG programs are accredited by NBA. As mandated by NBA, course outcomes and program outcomes are defined and 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.

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 COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	https://www.ssn.edu.in/college-of-engineering/cse-peos-and-pos/

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

The faculty followthe standard method and calculates the attainment levels after each end semester exam.The attainment of POs at program level is calculated for one batch after completion of 4 years of study.

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/cse-peos-and-pos/

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

958

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	View File
Paste link for the annual report	https://www.ssn.edu.in/life-at-ssn-clubs-at-ssn/

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/2024/12/2.7.1_AQAR_SSS.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

The promotion of research within academic institutions can be achieved through various strategies aimed at fostering a culture of innovation and excellence. Faculty members who publish high-quality research or secure research grants may be rewarded with incentives, or support for further research projects. Clear career advancement structures can encourage faculty to engage in research by linking career progression to research output. The HEI assess the Faculty membersbased on their research outputs, collaborations, grants, and innovations to achieve these objectives. Providing faculty with the necessary tools, advice, and resources to apply for external research funding can significantly promote research efforts. A dedicated council comprising experts from various fields provides oversight, advice, and recommendations regarding research initiatives. The council regularly reviews ongoing research activities, suggesting improvements, and guiding future directions to enhance the quality and impact of research. By integrating these elements, the institution ensures that research is systematically promoted, supported, and evaluated, ultimately contributing to a dynamic and productive research environment.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://www.ssn.edu.in/wp-content/uploads/2023/06/Research-Policy-2.pdf
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)

56.57

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
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	View File
Any additional information	View File

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

13

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)

949.7

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	**No File Uploaded**

3.2.2 - Number of teachers having research projects during the year

48

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://drive.google.com/file/d/1ylO1zbtNQLlCgo1vMUBNzpUAJfJkJ2_s/view?usp=sharing
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

218

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

11

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	https://drive.google.com/file/d/1ylO1zbtNQ LlCgolvMUBNzpUAJfJkJ2_s/view?usp=sharing
Any additional information	View File

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 has created a strong foundation to foster a research-driven, innovative, and entrepreneurial ecosystem within the institution.

The Institute Innovation Cell is designed to nurture innovation and strengthen the IPR and startup ecosystem within the institution.STIRS, an initiative supports student innovation by offering funding to student teams annually. Faculty members are provided with seed funding for research, project ideas, carry out initial exploratory research and gather data, laying the foundation for larger, externally funded projects. The IPR Cell assists in securing patents for their innovative ideas and technologies.The Innovation Centre offers a platform to experiment, prototype, and test their ideas.The Incubation Centre provides infrastructure, mentoring, and resources to help students and faculty launch startups.SSNCE has dedicated research centres on Energy, Materials, Smart Technologies, Machine learning, Healthcare Technologies, Speech Technologies, Radiation and Environmental Engineering, Water, Industry 4.0 to encourage collaboration across disciplines and foster the development of cutting-edge technologies.Each department has its own special-interest groups dedicated to key research areas.EDC focuses on helping to start their own businesses.SSN iFound assists in launching startups based on their research and innovations.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://ssnifound.in/

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

127

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

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 Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	**A. All of the above**

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

110

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

549

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

43

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

25141

File Description	Documents
Any additional information	No File Uploaded
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

1826

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	**No File Uploaded**

3.5 - Consultancy

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

84.606

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	View File
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

Nil

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

The AICTE Model Curriculum encourages students to engage in experiential learning through activities in one of the following associations: NSS (National Service Scheme), YRC (Youth Red Cross), or NSO (National Sports Organization). As part of this curriculam, each student is required to participate in 80 periods of experiential learning in their chosen association, helping them gain practical experience in social behavior and teamwork.

During the induction period, these associations and their activities are explained to the students, and they are enrolled in one of the three groups. Students then work under the guidance of faculty coordinators to actively engage in these activities.

National Service Scheme (NSS) undertakes various social welfare programs, including activities in village schools and local communities. This gives students the opportunity to contribute to society through social service and community development.

Youth Red Cross (YRC) focuses on health-related initiatives, such as blood donation drives and health camps, offering students a platform to engage in humanitarian causes that improve public health and safety.

National Sports Organization (NSO) aims to promote physical fitness and sportsmanship through various activities that involve health monitoring and encouraging students to participate in

sports competitions. This encourages students to maintain personal well-being and develop skills in team sports and individual athletic events.

These activities help students develop social skills by engaging them in real-world scenarios, encouraging teamwork, empathy, and an understanding of diverse social settings. Students learn to interact effectively within groups and contribute meaningfully to community-building initiatives, enriching their overall educational experience.

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

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

16

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	[View File](#)

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)

46

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

3494

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

683

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)

30

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. There are necessary labs with computers, equipments to perform experiments and project work. Tutorial rooms are also available.

Dedicated Learning Management System is extensively used for teaching learning process.

Each faculty has been provided with a system, headset and camera for online classes.

Each department has seminar halls.

The Institution has well equipped auditorium facility as below:

- 1000 seater AC main auditiorium

- 300 seater AC Mini Auditorium

- 200 seater AC- Central Seminar Hall

- 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, 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:

• 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
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	Nil

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

132

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)

9091

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.**

More than one lakh and ten thousand volume of books are available in the library. 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 it's 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)

608.88

File Description	Documents
Audited statements of accounts	View File
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

291

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

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 IT infrastructure team evaluates the need for any upgrades and also 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.

We have a datacenter which hosts two cisco C9500 core switches with two Fortigate firewalls along with a 4 node Hyper-V cluster for compute.

The whole campus is connected both by LAN and Wi-Fi.

We have Internet connectivity via 1Gpbs Airtel link.

All hardware and software are kept upto date with the latest versions.

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

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4012	2834

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	[View File](#)

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	[View File](#)
Paste link for additional information	https://lms.ssn.edu.in/login/index.php
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)

462.0

File Description	Documents
Audited statements of accounts	[View File](#)
Upload any additional information	No File Uploaded

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 is pre-estimated. At the end of the month, all tickets are analysed 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 logbooks.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://helpdesk.ssn.edu.in/

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

276

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File](#)
Upload any additional information	[View File](#)

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

274

File Description	Documents
Upload any additional information	[View File](#)
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	View File

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

3621

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	**No File Uploaded**
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

576

File Description	Documents
Self-attested list of students placed	<u>View File</u>
Upload any additional information	<u>View File</u>

5.2.2 - Number of outgoing students progressing to higher education

125

File Description	Documents
Upload supporting data for students/alumni	<u>View File</u>
Details of students who went for higher education	<u>View File</u>
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

181

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

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

380

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 of class committees. Each class has a Class Committee, which meets thrice a semester to take stock of the 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 the Photography club, music club etc.

- College has established 28 student-led clubs/ Department-wise student Associations spanning various interests such as cultural activities, technical skills, sports, arts, and social outreach.
- Each of these clubs is headed by students themselves, allowing them to take ownership of planning, organizing, and executing various events and activities throughout the

academic year.

- HEI ensures that students are at the forefront of decision-making processes and are given ample opportunities to exercise leadership and teamwork.

Two mega-events, Invente [technical] and Instincts [cultural], are completely planned and managed by student teams. More than 2000 students participate in each event.

Placecom is a student committee that plans and supports placement activities.

Student Alumni Representatives [SARs] help in liaising with alumni.

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

68

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	View File

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, a government-registered body under the Societies Act (133/2018), leverages a network of 19,000 alumni to support the institution. It operates chapters in Chennai, Bengaluru, and the US, with core committees and faculty coordinators from each department. The association fosters strong ties between alumni and the institute, providing financial aid

like Alumni Scholarships and non-financial support such as mentoring, career guidance, and placement assistance. Key annual events include the Alumni Scholarship function and "Tribute," held on the first Saturday of every year. Its newsletter, CARE, highlights alumni activities, strengthening engagement and collaboration with the institution.

Objectives of the Alumni Association:

- Foster strong relationships among alumni and with the institution.
- Disseminate updates about the institution and its members.
- Develop beneficial programs for alumni.
- Support institutional fundraising efforts.
- Assist graduates with career opportunities.
- Organize reunions and publish useful resources.

List of support activities provided by Alumni etc.

- Mock interview and placement
- Tech talk
- Funding
- Office Bearers (OB) for Alumni Association
- Board of Studies (BOS)

Alumni Donations: Rs 10,39,200 for the year 2023-2024 [attached the details of donations received]

Alumni Membership Fee: 1000 Final year students x Rs 500 = Rs 5,00,000

Weblink: https://www.ssn.edu.in/alumni-relations-office/

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://www.ssn.edu.in/alumni-relations-office/

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 in sustained growth, by planning and implementing aspects of NEP2020, throughgenerating the Regulations and Curriculum, for guiding the development of students. As members of the Curriculum Committee, Board of Studies and Academic Council, they help 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 Organization [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

Powers are decentralized with appropriate planning and review mechanism by the Board of 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 head of the departments (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	View File
Upload any additional information	View File
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.

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://www.ssn.edu.in/college-of-engineering/about-ssn-ce-presidents-welcome/
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 a grievance cell that is accessible by mail, is a checkpoint for any unforeseen excesses.

The Institution has a well-planned Appraisal System. The annual targets are deployed to faculty through the appraisal components. If an individual plans to maximise his score in appraisal, it

automatically improves the performance of the institution also.

Broadly, the goals are set in four aspects.

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

It is a self-scoring format, which the faculty can use as guideline to know which area he has to focus. Based on performance, annually reviews are conducted. 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.

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 to Organogram on the institution webpage	https://www.ssn.edu.in/college-of-engineering/bio-medical-engineering-department-ssn-institutions/
Upload any additional information	View File
Paste link for additional Information	https://www.ssn.edu.in/naac/institution-policy/

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. During COVID-19, SSN Institution established safe protocol to keep the students, staff and visitors safe both on and off campus in a self-disciplined way always. 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

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- 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	[View File](#)
Paste link for additional information	https://www.ssn.edu.in/wp-content/uploads/2023/06/Service-Rules-Teaching-Staff_compressed_compressed_compressed_compressed_11zon.pdf

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

```
32
```

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.)

120

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

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 of the Institution.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.

These audit findings and corrective actions taken are documented, for future reference.

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

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)

5252.97

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	View File

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. The fee structure is governed by Government constituted Fee Fixation Committee. For income, following are the sources of fund other than fees:

1. Donations: From Stakeholders including alumni and Philanthropists.
2. Rentals: The facilities in premises of SSNCE are provided for rental purposes.
3. Consulting projects: Institute is focussing on consulting projects as part of its diversification prospects.
4. Financial income including bank interest: Institute has optimal income generation from its financial resources. It has full fledge treasury function with experts which make investments to generate optimum returns.
5. Others: Such as tiffin token, Gym, Staff sports, etc.

Additional revenue is planned by securing external funded projects, which cover procurement of major research equipment. Currently, since we have 25 patents, we are looking at Technology Commercialisation as a possible source of revenue.

Optimal utilization is ensured by an annual budgeting process and regular review and analysis. Duringbudgeting process, all requirements from departments are discussed and prioritized for clearance.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	**No File Uploaded**
Paste link for additional Information	https://www.ssn.edu.in/mandatory-disclosure/

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

IQAC 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

All improvements are driven by the audit findings, which go into the next year's planning.

Some of the reforms implemented by IQAC for enhancing the quality of teaching learning process are as follows.

- **Academic Flexibility to all Departments with a Common Framework for CO-PO Attainment**
- **Performance Indicators for all UG Programs and micro level assessment of COs**
- **Encouraging students to do NPTEL courses to get waiver for a Professional Elective course**
- **Preparation of question paper as per Blooms' Taxonomy**
- **Currently, Digital Onscreen evaluation is Experimented. Assessment and Attainment Calculations for Outcome Based Education through inhouse Software developed**
- **Course files and E- content is audited every year by internal and external experts**
- **Monitoring the collection of feedback forms from all stakeholders in all departments**
- **Student Counselling Mentor-Mentee Record Books are maintained - now available as online Record.**

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. Academic and Administrative Audit are also carried out annually. Based on these findings, improvement areas are identified and taken up for implementation of revision in curriculum design and development. Some of the suggestions include.

- **Curriculum design to follow as per AICTE Model Curriculum**
- **Since 2018, Curriculum designed with PO, PSO and COs. Bloom's taxonomy followed for assessing Learning Outcome**
- **Suggestion for reduction of credits in the range of 160 to 165 (R2021) from 172 (R2018) to optimize the quantum of learning**
- **Introduction of Engineering Fundamental Practices as Theory-cum-Practical courses with Experiential Learning modules and studio sessions**
- **Inclusion of internship as a part of curriculum from R2021**

for both UG and PG programs

- Introduction of choice to graduate with Honors and Minors in emerging areas of technology
- Introduction of:
  - Linguistics Courses – Tamils and Technology, Heritage of Tamils
  - Mandatory Courses – Indian Constitution, Universal Human Values, Environmental Science
  - Digital Mission Courses - Cyber Security and Artificial Intelligence

As an outcome, we obtained 46th position in engineering category and 81st position in Overall Category.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://www.ssn.edu.in/naac/accrediations/

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 4226 students [including MBA] [36.6%]**

- **Out of 246 faculty, 103 are women [42%]**

- **Both in leadership and in faculty, women occupy prominent positions.**

- **Out of 12 department heads, eight are women and principal is also a woman.**

Separate hostel facilities are provided for girls.

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

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	**No File Uploaded**

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: Solid waste is segregated as biodegradable and non-degradable and handed over to Thirupporur Town Panchayat as a part of Swachh Bharat initiative and Clean and Green Campus. All bio-degradable waste (food waste) fed to the Bio compost machine and reused for Gardening purpose. The use of plastic carry bags, cups and laminated paper plates are prohibited on the campus.

2.LIQUID WASTE MANAGEMENT: Sustainable liquid waste treatment is adopted in campus through bioremediation using microorganism metabolism which helps to minimize the chemical and biological load of domestic sewage and is good for gardening purposes.

3.BIOMEDICAL WASTE MANAGEMENT: After sufficient amounts of carcass are accumulated, College hands over to Thirupporur Town Panchayat for Biomedical waste management. Workshops on Bio Medical Waste Management Rules, procedures were conducted in the College.

4.E-WASTE MANAGEMENT: All such equipment which cannot be reused or recycled is being disposed-off through authorized vendors. Instead of a new procurement Buy-Back option is preferred for technology up gradation. E Waste collected is stored and disposed-off annually. Students are also made aware of E-Waste issues and its safe disposal.

5.WASTE RECYCLING SYSTEM

Degradable solid waste collected from cafeteria, Boys and Girls Hostels, Guest Houses and from Residential Quarters are collected in the Organic waste composter to make some Organic fertilizer which are used for Gardening.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	<u>View File</u>
Geotagged photographs of the facilities	<u>View File</u>
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	A. Any 4 or all of the above

of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

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

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	View File
Certificates of the awards received	View File
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	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, socio-economic and other diversities (within a maximum of 200 words).

Through 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

7.1.9 - Sensitization of students and employees of the institution to 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 subjecthas been introduced on the Indian Constitution. Republic day and Independence Day are celebrated in a grand manner.

SSN has an Incubation centre to promote entrepreneurship.

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 periodic sensitization programmes in this	A. All of the above

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	View File
Any other relevant information	**No File Uploaded**

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

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.

Republic Day is celebrated every year with great enthusiasm. Various departments and Hostel students organize a program of Patriotic songs after flag hoisting every year. Independence Day is celebrated every year. Teachers' Day is celebrated to honour the teachers. 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. In addition to the National Festivals, local festivals like Ayudha Pooja and Pongal are celebrated in campus. Tech fest "Invente" and cultural fest "Instincts" are also celebrated by students, by hosting other college students in our campus.

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
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:https://www.ssn.edu.in/research-centre-ssn-institutions/

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 statistics of around 150 student teams involved in research every year, funded to the tune of around Rs.40 lakhs every year.

Practice 2 – Improving the involvement of students in major activities like Placement and Alumni relations .https://www.ssn.edu.in/placements/

Placecom committees have been created with students anchoring specific activities towards contacting recruiters and conducting placement interview sessions. Student Alumni Representatives [SAR] and Department Alumni Relations Team [DART] have been created, involving students of different batches to come together to serve the Alumni. Thereby, they maintain relationship with Alumni and ensure proper support from Alumni, for placement training, mock interviews and project mentoring.

File Description	Documents
Best practices in the Institutional website	https://www.ssn.edu.in/research-centre-ssn-institutions/
Any other relevant information	https://www.ssn.edu.in/placements/

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, SPURS is a scholarship that ensures inclusivity. SPURS is Scholarship for Potential Under-Graduate Rural Students.

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.

They are handheld with special classes and a separate mentor to get them adjusted to city and campus life. They are supported with laptops also, to carry out their studies effectively. One of our Alumnus, Mr.Naren mentors all our rural students by a career counseling program, taking them as interns for three months in his company [Mr.Cooper].Till date, around 125 rural students have benefited through this program.

As a give back policy, these rural background graduates have recently started a scholarship scheme by the name RAISE [Rural Alumni Inspired Scholarship for Education] and have pooled in Rs.3 lakhs to support similar students. This shows how useful the program has been for the rural students.

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

Future Plan

Growth :

- **Improve PG admissions**
- **Fill OCI category super numerary seats**
- **Introducing Integrated PG programs**

Visibility

- **Aim at NIRF Engg 40thrank**
- **Aim at NIRF Overall 60thrank**

Finance

- **Improve income by Consultancy and by commercializing the granted patents**

Sustainability

- **Achieve Platinum status in global sustainability ranking STARS [Sustainability Tracking, Assessment and Rating System] of AASHE [Association for the Advancement of Sustainability in Higher Education]**

Students support

- **Achieve at least 95 percent placement index in all departments. Curriculum revision shall focus on enabling this transformation.**