



Yearly Status Report - 2018-2019

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	SNS COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr.S.Charles
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04222668604
Mobile no.	7339223443
Registered Email	principalsnsce@gmail.com
Alternate Email	iqac.snsce@gmail.com
Address	SNS Kalvi Nagar, Sathy Main Road (Opp. CRI Pumps), Kurumbapalayam (Po), S.S.Kulam (via), Coimbatore
City/Town	Coimbatore
State/UT	Tamil Nadu
Pincode	641107

2. Institutional Status																									
Affiliated / Constituent	Affiliated																								
Type of Institution	Co-education																								
Location	Rural																								
Financial Status	private																								
Name of the IQAC co-ordinator/Director	Dr .P .Gnanasundari																								
Phone no/Alternate Phone no.	+917550316708																								
Mobile no.	9443407147																								
Registered Email	iqac.snsce@gmail.com																								
Alternate Email	principal.snsce@gmail.com																								
3. Website Address																									
Web-link of the AQAR: (Previous Academic Year)	https://sns.bitrix24.com/~wyB50																								
4. Whether Academic Calendar prepared during the year																									
	Yes																								
if yes,whether it is uploaded in the institutional website: Weblink :	https://sns.bitrix24.com/~NHkJq																								
5. Accrediation Details																									
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.01</td> <td>2015</td> <td>03-Mar-2015</td> <td>02-Mar-2020</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.01</td> <td>2020</td> <td>03-Mar-2020</td> <td>31-May-2024</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.01	2015	03-Mar-2015	02-Mar-2020	2	A	3.01	2020	03-Mar-2020	31-May-2024
Cycle	Grade	CGPA	Year of Accrediation	Validity																					
				Period From	Period To																				
1	A	3.01	2015	03-Mar-2015	02-Mar-2020																				
2	A	3.01	2020	03-Mar-2020	31-May-2024																				
6. Date of Establishment of IQAC			15-Jan-2015																						
7. Internal Quality Assurance System																									
Quality initiatives by IQAC during the year for promoting quality culture																									
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries																					
FDP		21-Jun-2018		24																					

	1	
Brainstorming activity on Roles and responsibilities	17-Aug-2018 2	112
IQAC Quarterly Meeting I Preparation of 2018-19 Action Plan	05-Jul-2018 2	20
IQAC Quarterly Meeting II	15-Dec-2018 1	21
IQAC Quarterly Meeting III	05-May-2018 1	21
IQAC Quarterly Meeting IV	02-Feb-2019 1	21
External Academic and Administrative Audit	16-May-2019 2	23
Submission of Data to NIRF	14-Dec-2018 1	10
CEGR award details submission	12-Jan-2019 1	8
Establishment of Centre of Excellence in Robotic Process Automation - BOT LAB in association with Automation Anywhere University	06-Feb-2019 1	18

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr.P.Prakasam/ECE	Student Project Proposal	TNSCST	2019 365	8300
Dr.A.Velumani/Civil	Student Project Proposal	TNSCST	2019 365	8500
Dr.P.Prakasam/ECE	QIS	AICTE-QIS	2019 6	665000
Dr.P.Gnanasundari/ECE	UBA	MHRD	2018 1092	500000
Dr.R.Sudhakaran/MECHANICAL	Student Project Proposal	TNSCST	2018 365	8300
Dr.A.Velumani/Civil	Entrepreneurship Awareness Camp (EAC)	EDII	2018 3	20000

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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View Link
10. Number of IQAC meetings held during the year :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View Uploaded File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

1. IQAC has prepared a Goal Setting log book for both Individual Faculty members and Departments on 5 Pillars and target/benchmark is fixed in each pillar/metrics for effective implementation. The targets are monitored and audited every month for quality enhancement and sustenance. 5 Pillars namely: i.Learning and Teaching (ICT enabled and Activity based Learning) ii. Creativity(Research, Innovations and Entrepreneurship) iii. Industry Interaction(Internship/Inplant Training, MoU and Placement) iv. Skill and career development (Training,Smart India Hackathon/go kart/ekart) v. Social Responsibility Initiatives (Extension) 2. Design Thinking approach is incorporated in the Teaching and Learning and other Innovation related activities 3. Established various linkages with Industries and Universities for collaboration activities (Training, Research, Placement and Entrepreneurship). No. of Linkages:458 MoUs:228 4. More number of Capability Building Programs for teachers and students in association with Professional bodies and Industries (No. of Programmes organized:152) 5. IQAC worked continuously for disseminating various policies and procedures of AICTE/UGC/MHRD to all the stakeholders for effective implementation in all the areas. IQAC continuously worked for collecting and organizing quantitative and qualitative data from every unit of the department and institution for applying various ranking and accreditation agencies

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

Plan of Action	Achivements/Outcomes
To improve the quality of teaching ,research and enhancing the quality of Engineering education	Students participation in coourricular activities are improved
To enhance Quality in Teaching	Design Thinking based delivery methods

methodologies	<ul style="list-style-type: none"> • Following a defined classroom structure • ICT enabled delivery by all teachers • Interactive class room • Methodologies adopted: Industry Cases, Role Play, Mind-mapping, Debate, Brainstorming, Demo Models, Simulations, Videos etc • Student engagement techniques: Quiz, mind games, puzzles, online tools(Kahoot, Plickers etc) • NPTEL Videos
To Conduct more national level seminars/workshops by all departments	Research Conclave:1 • National Conferences:4 • Workshops/Seminars: 128 • Guest Lectures: 125 • Faculty Development Programmes: 22
To improve the academic results and Placement	Graduate Rate : 72 %• Placement : 93%
To improve Innovation and creativity of Students	Design Thinking Workshops to Students • FORGE-iStart & iCamp:15 • Students Exchange /summer internship @ IITs :512 Selected for final round of Smart India Hackathon •172 Journal Publications :65 Conferences: 215 • Symposia:84 • Industrial Main Projects: 57 Industrial visits :243 • Inplant Training: 574
To improve filing of Patents /copyrights	Patents Published: : 17
To conduct Internal & External Academic Audit, Log book Verification, External Audit	Conducted regularly
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14. Whether AQAR was placed before statutory body ?	Yes
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Name of Statutory Body	Meeting Date
Governing Body	14-Nov-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
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Date of Visit	19-Jul-2019
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16. Whether institutional data submitted to AISHE:	Yes
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Year of Submission	2020
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Date of Submission	21-Feb-2020
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17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>The College has a Management information system for the Academic and administrative functioning of the college. The administrative system in the college is fully automated with appropriate software and all information on student admission, IAE Marks, fee payments available for timely decision making and actions. The College library is automated and the information available to the students and staff at fingertips. An online public access catalogue (OPAC) is implemented to enable the students for speedy and convenient access to the library catalogue. All the academic and administrative issues are deliberated and discussed in the appropriate body / Committees. All relevant information about the college is published on the college website for reference. Some forms of MIS which are practiced now:</p> <ol style="list-style-type: none"> 1. Daily Absent Report (Staff Students) 2. Monthly Report (Dept Wise) 3. IQAC Monthly Presentation 4. Management Review Meetings 5. Budget Meetings 6. IQAC Quarterly Meetings 7. Semester Progress Report 8. Annual Report 9. Academic and Administrative audit and Action Taken Modules currently operational in MIS are <ol style="list-style-type: none"> 1. Admission Module 2. Fee Module 3. Attendance Module 4. IA Module 5. Courseware Module 6. Library Module 7. Student Module 8. Faculty Module 9. Alumni Module 10. Corporate Relation Module

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

SNS College of Engineering (SNSCE) is affiliated to Anna University, Chennai. The curriculum and syllabi of various programs are framed by the Anna University. Center for Learning and Teaching (CLT) The CLT envisions creating an educational space that promotes excellence and innovation in teaching communities. The CLT offers training programs and workshops for the effective curricular delivery by the faculty members. Academic Calendar (Institution & Department) At the beginning of each semester, Institution level academic calendar with the list of working days, government/local holidays, schedule of Continuous Internal Assessment and University Examination, Annual day, Sports

day, Technical symposium is distributed to all the departments for planning. The Department academic calendar is prepared in aligning with the Institution level calendar. It includes the students' activities such as Outbound Training, CEO Talk, Workshops, Symposia, activities of various Clubs, Value Added Courses, Industrial visit/Training, etc., Time Table The timetable and the lesson plan are prepared well in advance based on the academic calendar for effective curricular delivery. Provisions are given in the regular time table for tutorials, library, seminars, projects, soft skill development etc. Staff Class Log Book - (Lesson plan, outcome and attainment, Academic Audit etc.,) A staff class log book, namely Attendance, Assessment and Audit (AAA) record guiding the faculty members to plan and documenting the curriculum delivery process and also for fulfilling the requirements of various quality parameters of accreditation. Various Components of AAA (Documentation for Teaching and Learning Process) Lesson plan- ICT Tools/Teaching Pedagogies used, Bloom's Taxonomy levels for each chapter Programme Educational objective (PEOs), Program Outcomes (POs)& Programme specific Outcomes and Mapping of COs with POs/PEOs/PSOs and its Programme specific outcomes Special Programs for Slow Learners - Tutorials and Remedial Classes etc., • Advanced Learners - Case Study/ Assignment/ NPTEL Video• Monitoring - Heads and Auditors during Auditing• Continuous Internal Assessments mark entries • Students attendance and Feedback Students attendance and Feedback Curriculum delivery - Students Centric/ICT based pedagogues Student-centric learning activities such as puzzles solving, role play, analogy,project/ problem-based learning, seminar on recent trends, quiz, online tests, brainstorming, tutorials, case study and group discussion have been practiced for a better understanding of the students. Laboratory manuals are prepared for the laboratory courses. Student-centric learning facilities such as SNS courseware, NPTEL or Videobased presentations, ICT enabled Classrooms, Online multiple-choice questions,webinars and remote learning through online resources are created for students' access at any time.Industrial collaborations are encouraged through MOU's in order to get industrial /Inplant trainings for students Monitoring Mechanisms for Curricular Delivery • Class/Course committee meetings (Thrice in a semester) • Department Meeting (Once in fortnight) • Academic Audit by IQAC (Once in a semester) • Students' Feedback on the performance of Teachers (Twice in a semester) • Tutor-Ward System (Mentor-Mentee) • Classroom Observation by Head of the Department Course file: The faculty members have documented all the curriculum delivery process in the course file.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Civil Engineering software	Nil	14/12/2018	4	Employability	Software knowledge
Bulding planning and bye - laws	Nil	24/08/2018	4	Employability	Laws and regulations
ETABS	Nil	14/12/2018	4	Employability	Software knowledge
STAAD Foundation	Nil	24/08/2018	4	Employability	Software knowledge
Macromedia flash	Nil	07/01/2019	4	Employability	Technical skill
Hello Bot:	Nil	07/01/2019	4	Employability	Technical

Introduction to RPA					ity	skill
Ethical Hacking	Nil	07/01/2019	4		Entrepreneurship	Technical skill
Adobe Illustrator	Nil	07/01/2019	4		Employability	Technical skill
Arduino Programming for Beginners	Nil	26/12/2018	4		Employability	Programming
PC Hardware Assembling and Trouble shooting	Nil	26/06/2018	4		Employability	Hardware

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	CS8392- Object Oriented Programming	25/06/2018
BE	EC8395-Communication Engineering	25/06/2018
BE	HS8381 - Interpersonal Skills/Listening &Speaking	25/06/2018
BE	EC8074 - Robotics and Automation	24/06/2019
BE	EE6602 - Embedded Systems	25/06/2018
BE	EE6006 - Applied Soft Computing	25/06/2018
BE	MA8351 Discrete Mathematics	05/07/2018
BE	CP5097 Mobile Application Development	05/07/2018
MBA	BA5053 - Supply Chain Inventory Management	25/06/2018
ME	MF5013 - Process Planning and Cost Estimation	25/06/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	02/07/2018
BE	Computer Science and Engineering	02/07/2018

BE	Electronics and Communication Engineering	02/07/2018
BE	Electrical and Electronics Engineering	02/07/2018
BTech	Information and Technolgy	02/07/2019
BE	Mechnaical Engineering	02/07/2018
MBA	MBA	02/07/2018
ME	Embedded system Technologies	02/07/2018
ME	Power Electronics and Drives	02/07/2019
ME	Manufacturing Technology	02/07/2019
ME	Computer science and Engineering	02/07/2019
ME	Information and Technology	02/07/2019

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year

	Certificate	Diploma Course
Number of Students	1525	0

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Design thinking and innovation	09/07/2018	59
Revit Architecture	09/07/2018	100
Open Source Tools	10/09/2018	49
Analytic Application and Dashboards	12/08/2018	76
Robotics for Electrical Engineering	11/02/2019	12
Self Devevelopment Inter-personal Relations	25/06/2018	56
Data Analysis Introduction	25/06/2018	156
Vehicle Inspection Maintenance	25/06/2018	138
LEGAL ASPECTS OF BUSINESS	25/06/2018	185
Yoga Moral Values	25/06/2018	56
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field
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		Projects / Internships
BE	IT	115
BE	MECHANICAL	535
MBA	MBA	98
BE	CIVIL	197
BE	CSE	177
BE	ECE	249
BE	EEE	90
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution?
(maximum 500 words)

Feedback Obtained
<p>The entire college obtains feedback from the students, alumni, parents, employers/industries and experts from academicians. Students: The class committee meetings are held periodically, this provides a platform for the students to discuss all academic issues. Any difficulties expressed by the students are noted and the same is communicated to the university either through the senior faculty who are members in the various boards of studies/syllabus committees etc. or forwarded to the university when suggestions are invited during syllabus revision. Alumni: The alumni of the college who have moved on to industry or for higher studies also give feedback on how the institution has helped them to perform in their places of work/study. The alumni also give constructive suggestions in helping the students achieve greater focus and improving themselves. Parents: The parents' meet is conducted by the college every semester apart from other issues enables parents to give suggestions regarding the curriculum of their wards. This is duly noted by the relevant persons in the college. Employers/ Industries: Representatives of various industries give useful feedback regarding the employability of the students and also their expectation from the students. Hence, any additional requirements that the industries may appreciate is provided by the college. Academician: Academician from India and abroad visited our institution and provided their valuable views and feedback on the curriculum which is incorporated in the same. (i) Each department prepares a handbook with objectives and outcomes of each subject from the first semester to the eighth semester and collects feedback on curriculum updating and revision from professional society members and industrialists. (ii) The institution has Program Educational Objectives (PEO) and Program Outcomes (PO) for each department individually. A PEO PO Review Committee functions in each department comprising of faculty members, Head of the Department, members from Professional Society and Industrialists. The committee conducts quiz competition and presentation programmes for the students every year. It gives feedback on students' performances and also gives suggestions on the topic concerned. Based on the recommendation of the Review Committee, the college</p>

suggests to the University recommending the revision of curriculum according to industrial needs.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
ME	Power Electronics and Drives	18	15	2
BE	Civil Engineering	120	29	9
BE	Computer Science and Engineering	60	151	49
BE	Electronics and Communication Engineering	120	83	26
BE	Electrical and Electronics Engineering	60	42	12
BTech	Information and Technology	60	96	31
BE	Mechanical Engineering	180	164	53
MBA	Master of Business Administration	60	173	56
ME	Embedded System Technologies	18	9	1
ME	Manufacturing Engineering	18	18	5

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	180	62	156	7	163

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
163	163	6	39	7	8
View File of ICT Tools and resources					
View File of E-resources and techniques used					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Tutor-ward system The Institute follows tutor-ward system for counselling, mentoring and to improve the academic performance of the students. Each tutor is allotted with 20 students for providing academic, personal and psycho-social support and guidance. Induction program The Institution assesses the learning levels of the students right from the time he/she is admitted to the college through an Induction program. It includes physical activities, creative arts, universal human values, literacy, proficiency modules, lectures by eminent peoples, visit to the local area, familiarization to the department and innovation under the induction program in which the students' assessment level is captured. Bridge course First year Students' assessment is based on their performance in the Plus Two, the stream in which they studied (Vocational, Mathematics Computer Science) and their medium of study (English Tamil). Based on their score and stream, the academic gap is identified and bridge courses are organized in English, Mathematics, Physics, Chemistry, Computer Science (5 Courses) and other skill-sets such as communication skills, presentation skills technical skills and group discussion. Also, lateral entry students' performance is assessed based on their diploma program. It identifies the academic gap and accordingly the bridge courses are planned for Mathematics and the fundamentals of engineering courses chosen in their respective program. After completion of this bridge course, in order to understand the level of each student, the post assessment test is conducted based on those 5 courses including other mentioned skill-sets. Assessment of II to IV Year students' Learning level: The students of higher semesters are assessed based on their performance in Internal Assessment Examination, lab-courses, classroom interaction and participation in Co and extra-curricular activities. Special programs for Slow learners Special care is given to slow learners by conducting remedial classes after college hours. It is conducted in the form of revision of important concepts, clarification of doubts, tutorials and test. It helps them to perform better in their examinations. Learner centric/Activity based/ICT tools is extensively used in teaching the slow learners and question bank is given to them. Academic and personal counselling are given to slow learners by the concerned class tutors and the Head of the Department. Special programs for Advanced learners Advanced learners are encouraged to develop Innovative projects through Design Thinking Bootcamp programs, National level technical contests such as Smart India Hackathon, codevita/go-kart/e-kart, Technology Business Incubator (TBI) programs (FORGE), Entrepreneurship Activities (EAI-EDI) and MHRD Innovation Cell (MIC) activities. In addition to that, they are motivated to participate professional body activities such as IETE, ACM, CSI, CII and other science technology events (international trade fair) for project contest and paper presentations. They are also guided to take up additional courses viz. MOOCs/NPTEL courses and other Technical certification in the 5 Technology Domains chosen by the Institution. Additionally, students are given professional training programs, internship, field project and organizing an awareness program on Public Service Examinations, GATE, GRE, TOFEL and International language (German, French, Japan) certifications. The awards such as Best Outgoing student, Outstanding student of the department and All Round Performer are selected based on their talent in all aspects

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1529	163	1:9

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
161	163	0	17	28

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers	Designation	Name of the award,
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	receiving awards from state level, national level, international level		fellowship, received from Government or recognized bodies
2018	Dr.A.Velumani	Professor	Outstanding Engineers Award from Institution of Engineers (India) Coimbatore
2018	Dr.A.Velumani	Professor	Excellent Women Professional Achievement Award from UITM, Mara University, Malaysia
2018	Dr.A.Velumani	Professor	The Society of Innovative Scientific Research Professional and Dedicated Professor award by Society of Innovative Educationalist and Scientific Research Professional
2018	Dr.I.Kala	Professor	Best Researcher Award
2018	Mr. K.Aravindhan	Assistant Professor	Young Achiever Award
2018	Dr.P.Gnanasundari	Professor	Distinguished Professor Award
2019	Ms.R.Jamuna	Associate Professor	Best Senior Faculty Award
2019	Dr R Sudhakaran	Professor	Best Researcher Award
2019	Dr.C.Vivekanandan	Vice Principal	Award of Excellence
2019	Ms.P.Sumathi	Associate Professor	Adarsh Vidya Saraswati Rashtriya Puraskar
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	103,104,105,106,114	II	21/05/2019	24/08/2019
BTech	205	I	21/01/2019	14/02/2019

BE	103,104,105,106,114	I	21/01/2019	14/02/2019
MBA	631	II,IV	21/05/2019	24/06/2019
BTech	205	IV,VI,VII	17/05/2019	23/06/2019
BE	103,104,105,106,114	IV,VI,VIII	17/05/2019	23/06/2019
MBA	631	I,III	12/01/2019	14/02/2019
BTech	205	III,V,VII	27/11/2018	14/01/2019
BE	103,104,105,106,114,	III,V,VII	27/11/2018	14/01/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

As per Anna University(AU) norms, performance in each course of study is evaluated based on three continuous internal assessments (20) throughout the semester and the AU examination (80) at the end of the semester. The academic calendar for each semester is prepared in line with the University schedule of events such as internal assessment schedule and the tentative date of University theory and practical examinations. The institution has structured exam cell which coordinates for the conduct and evaluation of internal and external examinations. Exam cell committee also ensures the usage of appropriate blooms taxonomy and contents to ensure that none of the questions are asked beyond the syllabus defined for each internal exam. All the circulars regarding Internal Assessment Examinations (IAEs) and end semester examination are displayed on the notice board. The evaluation process is thoroughly discussed in the HODs meeting with Principal and as well as in class committee meetings with students. Two sets of question papers are prepared by the faculty members and expected to submit one week before the commencement of the exam. Each department has an exam cell committee, which thoroughly checks the two sets of question papers and approves. Among the two question paper, one will be selected by the committee with the Principal approval. Special squad is appointed by the institution examination cell to track any malpractice during the internal examinations and necessary actions are taken. Malpractice during the exam will be referred to the disciplinary committee. At the end of the exams, such students are called along with the parents and conduct the enquiry. As per AICTE Exam reforms, the institution follows various bloom's levels in each question paper. Automatic Question Paper Generation (AQPG) Portal has been introduced for Internal Assessment examination. AQPG automatically generates the IAE question from an uploaded pool of question bank. Also, Quality Index of the question paper has been calculated automatically based on Bloom's Level and it will be calculated based 5 scale value. Based on this, the Question Paper index value may be increased to test the higher order thinking skills of the students. The syllabus for each internal exam recommended as follows IAE-1 covers 100 of Unit-1 and 50 of Unit-2, IAE-2 covers remaining 50 of Unit-2 100 of Unit-3 and IAE-3 covers Unit-4 5. After each IAE, the corrected answer scripts are returned to the students within 3 days after the examinations for transparency, clarification in the evaluation, required by the concerned students. The retest is conducted if the students failed to attend the IAE for valid. The second set of question paper will be used for conducting the improvement test. As per AU norms, entry of IAE marks and attendance in a specially designed online web portal periodically. Each department will conduct the analysis meeting where the result will be analyzed at micro level. The common point on which the result will be discussed as follows: • Subject /Class wise analysis • Faculty wise analysis • Girls and boys • Analysis of students

coming

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

As per Anna University(AU) norms, performance in each course of study is evaluated based on three continuous internal assessments (20) throughout the semester and the AU examination (80) at the end of the semester. The academic calendar for each semester is prepared in line with the University schedule of events Yes. The institution adheres to the academic calendar for the conduction of continuous internal examination. Before commencement of each semester, the institute prepares its own academic calendar in-line with the University schedule. It consists of list of working days, government/local holidays, tentative schedule of the Continuous Internal Assessment and University Examination (Theory and Practical), Annual day, Sports day, Technical symposium/contest and it is distributed to all the departments for planning. The department academic calendar is prepared by the HOD in consultation with the faculty members during the department meeting. It includes the students' activities such as outbound training, CEO Talk, workshops, symposia, activities of various clubs, value added courses, industrial visit/training etc., The institution examination cell is coordinating with the exam coordinators of each department for the conduction of internal examination and end semester examination. A portion for each Internal Assessment Examinations (IAEs) is clearly defined in Department meeting. As per AICTE Exam reforms, the institution follows varied bloom's level in each question paper. Two sets of IAE Question papers are collected from each faculty member. With the approval of the Principal, the Exam cell will consider one question paper for exam conduction. Automatic Question Paper Generation (AQPG) Portal has been introduced for IAEs. AQPG automatically generates the IAE question from an uploaded pool of question bank. Quality Index of the question paper has been calculated automatically based on Bloom's Level and it will be calculated based 5 scale value. Each department fixed the threshold value for assessing the quality index of the question paper. Based on this, the Question Paper index value may be increased to test the higher order thinking skills of students. All the circulars regarding IAEs and end semester examination details such as hall plan, seating arrangements, schedule of examination, invigilation duty chart and internal marks are displayed on the notice board. such as internal assessment schedule and the tentative date of University theory and practical examinations.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://snsce.ac.in/courses_ece_graduate_attributes/

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
103	BE	Civil Engineering	100	49	49
104	BE	Computer Science and Engineering	53	40	75
106	BE		76	57	75

		Electronics and Communication Engineering			
105	BE	Electrical and Electronics Engineering	35	30	86
205	BTech	Information Technology	36	24	67
114	BE	Mechanical Engineering	185	113	61
631	MBA	MBA	43	38	88
431	ME	Embedded system Technologies	2	2	100
634	ME	Manufacturing Engineering	4	4	100
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://snsce.ac.in/igac/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

3.1.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Interdisciplinary Projects	180	Trio Engineering Company	89800	89800
Interdisciplinary Projects	180	Sri Meenaakshe Amman Industry	107000	107000
Interdisciplinary Projects	180	SB Associates	100000	100000
Interdisciplinary Projects	210	New way Construction	112500	112500
Interdisciplinary Projects	180	TNSCST	7500	7500
Minor Projects	180	BKN Industries and TMN Biofuels Pvt. Ltd.,	457550	457550
Industry sponsored	365	M/s. Athavan Clothing	50000	50000

Projects		Company		
Industry sponsored Projects	240	Kitkat software Technologies	50000	50000
Industry sponsored Projects	1825	UBA	500000	50000
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3.2 – Innovation Ecosystem

3.2.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Copyright and Intellectual Property Rights: An Overview	Civil Engineering	10/09/2018
Intellectual Property Rights (IPR) and Patent Filing	Computer Science and Engineering	02/11/2018
Design Patent Drafting	Mechanical Engineering	05/09/2018
A one day seminar on Intellectual Property Rights: Emerging Issues and Challenges	Electronics and Communication Engineering	10/12/2018
Influence of Big Data in Singapore Banks	Computer Science Engineering	07/02/2018
Entrepreneurship Innovation	MBA	08/11/2018
Vehicle Testing for Motorsports Events	Mechanical Engineering	31/08/2018
ACM Innovation Challenge	Computer Science and Engineering	17/09/2018
Application of Artificial Intelligence	Information Technology	28/12/2018
Latest Civil Engineering Software Applications NDT Techniques	Civil Engineering	30/08/2018

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Outstanding Engineer Award	Dr.A.Velumani	The Institute of Engineers	17/09/2018	Academics
Excellent Women Professional Achievement Award	Dr.A.Velumani	Innovative Scientific Research Professional Malaysia	20/10/2018	Academics
Rescue copter- In appreciation for fostering	G.Sathya	Texas Instruments	01/11/2018	Academics

an ecosystem bridging government, Industry and Academia				
Research Excellence	Dr.B.Anuradha	Adarsh Vidya Saraswati Rashtriya Puraskar	01/05/2019	Research
Young Achiever Award from IEAE	Mr. K.Aravindhan	Institute for Exploring Advances in Engineering, Karnataka	06/07/2018	Research
CONCAST 3600 Cube test -Special Appreciation award	Nithyanantham S, Rahul C S, Ajithmon J S, Vignesh S, Ajmal Mohamed M J, Ms.D.Saranya Devi	Association of Consulting Civil Engineers	15/09/2018	Research
Honor Dora Hacker Award	Mr.V. Santheepkumar, Mr. T.Jaganath, Mr. K.Ramkarthi, Mr.G.Thangaraj, Mr.Sarangan. E.	Dorahacks (Global Hackathon Series)	06/07/2018	Academics
Best Project Award	C.Suneka	Sri Krishna College of Engineering and Technology	17/02/2019	Research
District Captains of Tamil nadu Illam Innovators Challenge Award	Ms.R.lavanya Ms. R. Nivetha	EDI-AURCC	22/08/2018	Academics
Best Researcher Award	Dr.I.Kala	Allinnov Research and Development Private Limited, India.	06/07/2018	Research
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
SNS College of Engineering, Coimbatore	Mechnido	Go kart spare parts	Mechnido	Drone	22/02/2019
SNS College of	Rythem Tours	Tours Travels	Rythem Tours	Tourisum	22/02/2019

Engineering, Coimbatore					
SNS College of Engineering, Coimbatore	Evident	Event management	Evident	Event Management	22/02/2019
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
5	5	10

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
B.E. Computer Science and Engineering	1
B.E. Electronics and Communication Engineering	2
B.E. Electrical and Electronics Engineering	2

3.3.3 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	B.E. Computer Science and Engineering	4	2.14
International	B.E. Electronics and Communication Engineering	5	2.11
International	B.E. Electrical and Electronics Engineering	2	0.51
International	B.E Mechanical Engineering	6	1.03
International	Master of Business Administration	4	3.79
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3.3.4 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
B.E Civil Engineering	2
B.E. Computer Science and Engineering	7
B.E. Electrical and Electronics Engineering	1
B.E. Electronics and Communication Engineering	4

B.E Mechanical Engineering	4
B.Tech Information Technology	6
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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Enhancing the Performance Analysis of LWA Protocol Key Agreement in Vehicular Ad hoc Network	K.Aravindhan	IEEE Xplore Digital Library	2019	7	SNS COLLEGE OF ENGINEERING	5
Vehicle Insurance Calculator Using Augmented Reality	N. Jayanthi	IEEE Xplore Digital Library	2019	4	SNS COLLEGE OF ENGINEERING	4
Estimating the impact of drought on crop yield using principal component analysis	P.Prakasam	Journal of web engineering	2018	0	SNS COLLEGE OF ENGINEERING	0
Optimized Design and Control of a Stand-Alone Hybrid Power System using Modified Cuckoo Search Algorithm	Harish R, Karthick R,	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	0.29	SNS COLLEGE OF ENGINEERING	0
Least Mobility	Arumugham,	Wireless Personal C	2019	0.25	SNS COLLEGE OF	1

High Power (LMHP) Dynamic Routing for QoS Development in MANET	K. Chennia ppan V	ommunicati ons			ENGINEERIN G	
Least Mobility High Power (LMHP) Dynamic Routing for QoS Development in Manet	Ms.A.Kow shika	Wireless Personal C ommunicati ons	2019	1	SNS COLLEGE OF ENGINEERIN G	1
Modelling and optimi sation of welding parameters for multiple objectives in pre-heated gas metal arc welding process using nature instigated algorithms	P. S. Si vasakthive l, R. Sudhakaran	Australian Journal of Mechanical Engineerin g,	2019	7	SNS COLLEGE OF ENGINEERIN G	3
Effect of organic and inorganic reinforced particulat es for fatigue behaviour of Al-Si7-Mg0.3 hybrid composite: V-notched and un-notched specimen e xperiments with micro structural constituen ts	B Vinod, S Ramanath an, M Anan dajothi	SN Applied Sciences	2019	15	SNS COLLEGE OF ENGINEERIN G	2

A novel approach for utilization of a gro-industrial waste materials as reinforcement with Al-7Si-0.3 Mg matrix hybrid composite on tribological behaviour	B Vinod, S Ramanathan, M Anandajothi	SN Applied Sciences	2018	15	SNS COLLEGE OF ENGINEERING	2
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Destination-aware context-based routing protocol with hybrid soft computing cluster algorithm for VANET	Mr.K.Aravindhan	Soft Computing (A Fusion of Foundations,	2019	0	0	SNS College of Engineering
Technical analysis on security realization in web services for e-business management	Muthukrishnan, P., Sakthivel, V., Ramachandran, B., Srihari, K.	Information Systems and e-Business Management	2019	0	0	SNS College of Engineering
Holding maximum customers in cloud business environment by efficient	Sundaramoorthy, P., Selvam, M., Karthik, S., Srihari,	Information Systems and e-Business Management	2019	0	0	SNS College of Engineering

load balancing methods based on MPSO-MC	K.					
A novel scheme for safeguarding confidentiality in public clouds for service users of cloud computing	Mr.N.Thi llaiarasu	Cluster Computing	2019	3	3	SNS College of Engineering
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	4	27	13	1
Presented papers	8	8	0	2
Resource persons	0	1	0	2
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3.4 – Extension Activities

3.4.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Donated Flood Relief Fund towards helping the Kerala People affected by heavy flood Rs. 26,588	Extension Activity Centre	3	500
NAVIRA 2K19	STYLE SAVVY, COIMBATORE	5	20
Eye Camp	Lotus Eye Hospital	4	50
Drug Free India - The Art of living	The Art of Living, Mr.Saravana Prabhu Subramaniam, State Youth Coordinator	2	280
Awareness on Electrical safety	M/s. Deepak Electronic Control Device, Coimbatore	2	20

Social awareness programme on Plastic eradication	Wizzard Systems	4	35
CYCLOTHAN	PCRA BPCL , Coimbatore	3	70
UBA	MHRD	2	70
Swachh Bharat	NSS	5	100
Orphanage Visit	NSS	4	100
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Humanity	Best helping mind	The united orphanage	20
Teaching computer basics to the weavers	Young Skill Developers Award	Sirumugai Weavers Association	2
Dream Zone	Queen of Coimbatore	Makal Sevai Maiyam	1
Environment Day Awareness Program	Active member	M/s. CPC Premier Limited, Coimbatore	10
Book Donation	Appreciation	Government Schools	1450
Blood Donation Camp	Best Contributor Award	CMCH	150
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	NSS	Clean city	8	100
UBA	AICTE-MHRD	Awareness Programme	2	70
Blood Donation Camp	Ramakrishna Hospital	Blood Donation Camp	3	90
Health Awareness camp	Government Higher Secondary Schools, Saravanampatti	Walkathon	2	64
Happy Street Program	M/s. Gilbar CO Veeder Root, Coimbatore	World First Aid Day	4	70
Social awareness	Wizzard Systems	Plastic awareness	6	150

programme on Plastic eradigation		programme		
PROJECT PUTHRI	AVATAR HUMAN CAPITAL TRUST, CHENNAI AND ARAM FOUNDATION, COIMBATORE	Project contest	2	50
Eye Camp	NSS	Eye camp	4	120
Walkathon	Government Higher Secondary Schools, Saravanampatti	Health awareness	64	120
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3.5 – Collaborations

3.5.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Project work	4	M/s Dhanvi Infotech	90
Project work	3	M/s. Easy Design Systems	90
Project work	3	M/s. Generic CNC Machine	90
Sponsored Project	3	M/s Career Interconnect Solutions	120
Sponsored Project	4	M/s KrisTec	120
Collaborative Research	5	M/s BKN Industries	30
Collaborative Research	2	Annamalai University	30
Project work	4	Ape Automation	90
Auditing	6	Indian Ayurvethic Hospital, Coimbatore	730
Collaborative Research	11	National Institute of Technology, Trichy	30
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact	Duration From	Duration To	Participant

		details			
Training	Drone Assembling	Fliege UAV Concepts Private Limited	06/09/2019	07/12/2019	121
Training	AAU Certified Essentialn RPA Professional Training	Automation Anywhere Software Pvt Ltd, Prestige Trade Tower, 12th, High Grounds, Sampangi Rama Nagar, Bengaluru, Karnataka 560001	20/05/2019	25/05/2019	152
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Universiti Teknologi Mara Malaysia	03/05/2019	To exchange the faculties and students for research activities internship for students etc.,	120
M/S Easy Design Systems	23/11/2018	Training	1
Fliege UAV Concepts Private Limited,10,Thiruvalluvar Road, New Siddhapudur, Coimbatore-44	12/07/2018	Guest Lecture, Workshop, Internship	29
M/s. Kondaas Automation	27/12/2018	Solar and Power Electronic Collaborations	45
Kitkat Software Technologies	08/08/2018	Web Designing	15
/s V-ALIENZ S . F. No. 17/1D, Jaganathan Industrial Estate, Athipalayam Rd, Chinnavedampatti, Coimbatore, Tamil Nadu 641006	14/09/2018	Internship/Job Training	20
M/s. Rocheston LLC- USA	25/09/2018	Guest lecture, Placement and	98

Project work

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
130	132.11

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Others	Newly Added
Classrooms with Wi-Fi OR LAN	Existing

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Lips i Net 5	Fully	5	2007

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	34341	1338220	1614	902979	35955	2241199
e-Books	1001	0	925	0	1926	0
Journals	139	254080	0	0	139	254080
e-Journals	819	0	0	0	819	0
CD & Video	1987	0	1776	0	3763	0
Digital Database	1	13570	0	0	1	13570
Library Automation	1	15930	0	0	1	15930

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr. Jagadeesh	Demo based Learning	youtube	01/06/2019
Dr.P.Prakasam	Teaching Learning Method-Technology Based Assessment 4	you tube	01/06/2019
Mr.Jagadeesh	Digital Assessment	youtube	01/06/2019
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	995	17	995	1	1	1	6	68	0
Added	0	0	0	0	0	0	0	0	0
Total	995	17	995	1	1	1	6	68	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

68 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
nil	https://youtu.be/UblXciJckZQ
26	https://www.youtube.com/channel/UCtaD1VRMr9DG8gTKFAabCwQ/videos

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
200	194.62	375	388.88

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

<p>Introduction The institution is having well established systems for maintaining physical, academic and support facilities. Physical facilities An exclusive housekeeping department takes care of the complete campus maintenance. Class rooms, tutorial rooms, smart class rooms, laboratories, seminar halls and rest rooms are cleaned on daily basis. This ensures proper cleanliness of the campus. During the class committee meeting, students' feedback on infrastructure maintenance is collected and suitable remedial</p>

actions were taken for the complaints received. Academic facilities All the equipments, instruments, machineries are properly used and maintained as recommended by the OEM for trouble free working. The institution has approved suitable maintenance agencies for maintaining and up keeping of all lab equipments. The stock verification is being carried out semester wise. Annual maintenance budget for each department is included in the institution budget.

Support facilities The estate office utilizes approved maintenance agencies for the maintenance of lifts, fire extinguishers, fire systems and generator. System administrator maintains the internet connectivity and CCTV security system. Institution has an exclusive maintenance mechanism where the students and faculty members can lodge their complaints on electrical and plumbing faults. The maintenance team will rectify the issues immediately. Following work is being carried out by computer and system maintenance department

- ERP software support and maintenance
- Uploading of data in college website
- Renewal of software agreement such as Microsoft, campus agreement etc.
- Installation and upgradation of software
- Hardware maintenance of computer
- Maintaining records of all computers and peripherals including printers
- Lease line, BSNL line for Internet, and Jio Wi-fi is used in the campus: Maintenance Service
- Maintenance of all UPS
- Maintenance and service of CCTV cameras and backup of video recorded.
- Campus wide networking.

Physical Education The Department of Physical Education of SNSCE provides facilities for both outdoor and indoor games for the interested students to practice as well as conduct of intramural and extramural events in sports and games. Multipurpose indoor stadium provide courts for basketball, volleyball, badminton and table tennis. 'SPINE THE SNS ACTIVITY CENTER' witness, a plethora of humans bonding on their common interests and motivations. As a unique hub, to enhance business connections among the industry and institution, SPINE THE SNS ACTIVITY CENTER is set to amaze with its dynamic and vibrant infrastructure facilities. SPINE THE SNS ACTIVITY CENTER not only allows individuals to improve their life skills but also gives them a precious chance to build networks for an inspiring start to their careers and entrepreneurial ventures. The wonderful ambience and the latest cutting-edge equipment in 5 levels to its credit, the SPINE THE SNS ACTIVITY CENTER is sure to mesmerize you by unlocking a world of new opportunities.

<https://www.snsce.ac.in/home/>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	SNS Bronze, Silver and Platinum, SNS ARP Scholarship, SNS Merit and Means, Sports Scholarship, SNS All Rounder and BOG Scholarship, MERIT AND MEANS / SPORTS SCHOLARSHIP	144	2777500
Financial Support from Other Sources			
a) National	First Graduate, SC/ST	872	27193590

	Scholarship,BC/MBC Scholarship,UGC Post Graduate Indira Gandhi Scholarship for Single Girl Child,Farmers Scholarship		
b)International	0	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Outbound Training	28/07/2018	30	IT
Introductory Sessions of Meditation Programme	04/09/2018	25	IT
Three Days Crash Course-Sudharasana kriya	11/07/2018	58	Art of Living
Design Thinking for product development	22/11/2018	100	The Perfect Circle
Digital Marketing	05/09/2018	100	The Perfect Circle Solutions Pvt Ltd.
Career Stages	23/11/2018	100	Srijan Consultants
Awarness Programme on "Excellence and Joy Go Together"	07/07/2018	82	Heartfulness Institute
One Day Seminar on Innovation Challenges In Futuristic Materials For Advanced Engineering	08/02/2019	50	Indo shell cast pvt. Ltd
Motivational Talk	30/08/2018	150	Inter organization
Women Empowerment Programme	11/02/2019	114	Rexona Confidence Academy powered by Hindustan Unilever Limited
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Alumni Seminar on "Career Development"	0	70	0	0
2018	Career Guidance Programme on "How to handle unexpected situations in Workplace"	0	79	0	0
2019	Placement Training	0	420	0	392
2019	Awareness programme on UPSC and TNPSC Exam	0	6	0	163

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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
6	6	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Hexaware Heptagon Infodsign Think Learn Pvt Ltd (Byjus) IDBI Federal Lakhshya Cyber Security Labs Pvt Ltd Starberry Ltd Ethnus S oftsolutions4 u Tiyan	415	361	Sun Info Media P Ltd Lucid Technology Econstruct Infosys DMart zilologic VVDN Shlok labs Atos Syntel Aspire Systems Robert Bosch Sutherland Global	415	186

Infotech Vinayak Infotech Future Generali Maxbupa Focus Edumatics Verticurl Quezapp			Rising star mobiles Aarbee Structurals GP Strategies ASTER IT Solutions FINOCULUS WEBNOX STALLIONi Net So		
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B,TECH	IT	PSG INSTITUTE OF MANAGEMENT	MBA
2019	2	B.E	Civil	dhaya School of Engineering	M.E
2019	1	B.E	ECE	SNS College of Technology	MBA
2019	1	B.E	EEE	LIBA Loyola Institute of Business Adm inistration	MBA
2019	1	B.E	EEE	Government College of Technology, Coimbatore	ME
2019	1	B.E	CSE	Jerusalem College of Engineering	MBA
2019	2	B.E	MECH	Velammal Engineering College	MBA
2019	2	B.E	MECH	Kumaraguru College of Technology	MBA
2019	1	B.E	MECH	SNS college of Engineering	ME
2019	1	B.E	MECH	PSG college of Technology	ME

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	4
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Management Meet Arthashastra 2019	National	200
Annual Day Cultural Events	Inhouse	90
Navira Womens Day Celebration	National	16
Allora	National	14
Dance Music in Pongal Celebration	District	80
Finesse'19 Flash mob	District	50
Yugam - KCT	National	12
Musical Workshop	District	10
Tennis (Men) and Basketball (Women) Tournaments.	Zonal	128
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Anna University Zonal Tournament	National	1	0	71331610 4028	R.Pradeesh Balaji
2018	Anna University Zonal Athletic Meet- Long Jump	National	1	0	71331510 4013	Harisma.K
2018	Anna University Zonal Athletic Meet- 4 x 100 Relay	National	1	0	71331510 4013	Harisma.K
2018	Anna University	National	1	0	71331710 4009	Deepika

	Zonal Athletic Meet- 4 x 100 Relay					
2018	Best Management Team	National	0	4	71331763 10004,7133 17631024,7 1331763104 2,71331763 1044	Andrew M elwin.S,Ma dhana Gopal. D,Vasanth. P,Venkates h. S
2019	Anna University Zonal Athletic Meet- 100 m	National	2	0	71331710 4009	Deepika
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The students are involved as members in both academic and administrative bodies of the organization. Students' participation in Academic Committees Class Committee: A class committee consists of a chairperson, class advisor, subject teachers, and the students' representatives. Class committee meeting is held thrice in a semester. Student members are nominated based on the learning abilities like advanced slow learners, gender, other state/country, hosteller, day scholar, scholarship holders etc. During Class committee, meeting students express their feedback regarding academic and administrative matters. Internal Quality Assurance Cell (IQAC): Institutional IQAC has students' members to provide suggestions to the academic and administrative improvements. Students' participation in Administrative Committees Students associations: Every department has association with representatives to coordinate various activities connected with the conduct of academic, non-academic and placement activities of students. Student office bearers organize the events of the association for the particular academic year. The association is normally guided by faculty members as advisors. Hostel Committees Hostel committee comprises chief warden, warden and student representatives. Meeting is held once in a fortnight. Committee decides the menu for the mess. Students can express their suggestions/ideas during the meeting. Grievance and Redressal committee: The Students Grievance and Redressal Committee promote and maintain a conducive and Harmonious educational environment. It develops a responsive and accountable attitude in College without any laxity in fair dealing of students. The cell solves student's academic and administrative problems with coordination between students and Departments. Anti-Ragging Committee: The Committee responsibility is to ensure that students maintain discipline in the classrooms and within the college campus. Members of the cell regularly go on rounds to each and every classroom to make note of errant behavior and to make sure that the college campus is free from ragging and eve-teasing. Women's Empowerment cell: Women Empowerment Cell aims to empower girl students. The cell also provides a platform for women to share their experiences and views regarding their status in the society and to suggest ways to improve and empower themselves. The cell facilitates women's empowerment through guest lectures, seminars, awareness programs and other welfare activities. Sports Committee: The student representatives along with the physical directors and faculty members motivate the students to participate in indoor and outdoor games. The purpose of the committee is to identify the talented students in the

campus and coach them in their field of interest. Prevention of Sexual Harassment cell The cell aims to prevent sexual harassment by promotion gender equality among staff, students and other employees. Any complaints to the cell are dealt with time bound manner, aiming at ensure support to the victims and prevent such things in future through appropriate punitive action Counseling Cell The counseling cell provides students with unwavering services in the area of guidance and counseling. Its services had been utilized by any number of students of our college. Both Group and Individual counseling services are provided as per the need of the hour. The Counseling sessions are conducted in a complete private and confidential manner. Our Counselors have experience

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The College has its own registered Alumni Association..The stronger the network of alumni, the greater is the impact. Additionally, the sense of belonging and identity is enhanced and this has a positive outcome when senior batch alumni return to the campus to deliver guest lectures, provide mentoring, participate in campus placements process, etc. The vast majority of the alumni database is made up of engineering professionals, who work for some of the best corporations of the world. There are also management graduates who occupy important positions in the corporate world. The vast majority of the alumni database is made up of engineering professionals, who work for some of the best corporations of the world. There are also management graduates who occupy important positions in the corporate world. The following alumni activities: are carried out through our alumni network. • Facilitate visit to the campus • Guest Lecturer / Visiting Faculty • Campus Recruiter • Explore industry academia collaboration avenues like research, projects, consultancy, kits, etc. • Mentor juniors regarding their careers • Nominate outstanding alumnus by tracing ones personal growth and success story. • Post job openings of ones organization fo fresh as well as lateral candidates. • Sponsor an event / seminar / activity / laboratory / publication / award / venture. • Industrial Collaborations, Internships, In plant training • Chapter opening assistance in other places Creating an engaged, supportive alumni network is crucial to an institutions success. If communication stops once graduates leave an institution,

5.4.2 – No. of enrolled Alumni:

4376

5.4.3 – Alumni contribution during the year (in Rupees) :

265000

5.4.4 – Meetings/activities organized by Alumni Association :

We have Organized 21 Alumni Guest lecture on various recent topics, 6 Seminars, 7 Motivational Talks, Personality Development coaching, Career Guidance and one Workshop, Also we have included the alumnus for BoS. Our alumni are helped to conduct Mock Interview for placement. Few of our students are entrepreneur they will give the guidance to start the business

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

SNS College of Engineering, under the chairmanship of visionary leader Dr.

S.N.Subbramanian functions with the motto of "Service, Nobility Sincerity". 'Service' is a tradition at SNSCE and we offer services not only to the faculty members and students but also to the society. Our Correspondent Dr.S.Rajalakshmi is the mentor who guides takes the faculty members and students in the right path. Our Technical Director, Dr. S. Nalin Vimal Kumar guiding the team of Principal, HODs, faculty and students work towards the vision of the institute. Governing Council is the Apex Body of the institution that decides/finalize the academic framework, new courses and curriculum recommendation given by the Programme Advisory Committee (PAC) of all the departments. Based on the recommendations of Governing Council, the academic activities are planned and executed with the able leadership of the Principal, Heads of the Departments and Faculty team. Governing Council periodically monitors the progress. Departments have the autonomy of analyzing and recommending their requirements on the curriculum and syllabus through the Programme Advisory Committee (PAC) constituted by the departments consist of internal faculty members and external industry members. Recommendation of this committee is being forwarded to Principal and Management for the approval. Then finally kept in the Governing Council Meeting for final approval. The teaching and learning pedagogies are given with autonomy to the faculty members to prepare/design on their own to have the Design Thinking approach. Our institution has turned towards Design Thinking Curriculum to enhance the students to have the design thinking approach in their innovation, research and other activities. The faculty members are also given with the freedom to prepare/design their pedagogies to develop the students as Design Thinkers. SNS Institution is strongly believe in the participative management that includes its stake holders in all decision making, strategy formulation, developing curriculum, designing and scheduling the class room structure, developing the students etc. Participative Management is emphasized by way of inviting the faculty members' suggestions on new initiatives for the students' development. Including the faculty members in providing suggestions for the curriculum design and development by the way of providing the new subject requirements, modifications needed in the content of the syllabus are another example for the participative management at our institution.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Our institution has perspective plan for developing the students' approach towards their academic and have more focus on the Design Thinking Approach. We have implemented the Design Thinking Concept in which the students are taught to identify the industrial and societal problems through empathy and produce the innovative solution through Design Thinking. Our institution is first of its kind in India to introduce the Design Thinking Curriculum. Through the suggestions and feedback collected from the stakeholders the syllabus is revised periodically with the members of PAC and would be sent to the Board of Studies and Governing Council

respectively for further suggestions and approval.

Teaching and Learning

Teaching learning at our Institute is governed by the Centre for Learning Teaching (CLT). A well defined class room structure is followed by our faculty members with student-centric learning activities such as puzzles solving, role play, analogy, project/ problem based learning. We are focused on the Innovative Areas of 7 industry verticals and 5 technologies of AR/VR, IoT, Data Analytics, Robotics Automation, Additive Manufacturing to enhance the students' innovation. Student-centric learning facilities such as SNS course ware, NPTEL or Video based presentations, ICT enabled Class rooms, Online multiple choice questions, webinars and remote learning through online resources are created for student's access at any time.

Examination and Evaluation

As per Anna University the examination system is followed with 3 Internal Assessment Exams and End Semester Theory and Practical Examinations. The evaluation process is made available in the Anna University web portal. All the faculty members and students are educated with these process through the hand book. All the circulars regarding Internal Assessment Examinations (IAEs) and end semester examination are displayed in the notice board and in college web site. Every teacher is required to maintain a "AAA record" which consists of attendance for each lecture/ practical/ project work hour class, the topics covered during each hour, IAE Marks and Unit Test Marks through which the students attendance and evaluation marks are maintained

Research and Development

The Centre for Creativity (CFC) has been formed to operate and enhance the Research activities of our Institution. Faculty members and the students have been given with the infrastructure facilities like of laboratories, computer systems and equipments. They have been provided with the financial support through scholarships. Seed money fund of Rs. 1,00,000 each for student and faculty per department has been provided every year. Faculty members are also encouraged to have the Design Thinking approach in their

research activities based on the 7 innovative verticals and 5 technologies. Students and faculty members are also encouraged to present the research papers in various National/International Seminars and conferences for which the Institution offers 50 of the registration fee with OD.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	Bitrix Software is used for the Planning and Development of our Institution. Bitrix is a collaboration software with complete tools for management, collaboration and communication which has been effectively utilized in our institution. SNS Courseware has been utilised for uploading our teaching course materials, lesson plans, lecture notes, videos, question banks and all other teaching materials.
Administration	Bitrix software is used in the administration area as well.
Finance and Accounts	E-Campus software and Tally software have been utilized for the Finance and Accounts area functions
Student Admission and Support	E-Campus software has been utilized for the student admission and support purpose
Examination	SNSCE e-CoE software and Anna University Web Portal have been utilized for Examination works.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	One Day Workshop on Additive Manufacturing and Weldability of Nickel Based Superalloys	Two Days Workshop on "Student Guidance and Counselling Techniques"	Coimbatore Institute of Technology, Coimbatore	1250
2018	Dr.R.Sudhakaran	One Day Workshop on Additive Manufacturing	PSG College of Technology, Coimbatore	1250

		and Weldability of Nickel Based Superalloys		
2018	Mr.T. Tharankumar	AICTE QIP - Innovative techniques for smart grid operation and control	Chandicherry Engineering College	1500
2018	Dr. B. Goldvin Suigrtha Dhas	TEQIP-III sponsored three days workshop on Energy Conclave	Thiagarajar College of Engineering, Madurai.	1500
2018	K.K.Rajkumar	QIP sponsored workshop on Brain science and technology	IIT Delhi	2250
2018	P.Kalaivani	QIP sponsored workshop on Brain science and technology	IIT Delhi	2250

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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	AAU CERTIFIED ESSENTIAL RPA PROFESSIONAL TRAINING PROGRAMME	Hands on Training on 3D Printing	22/05/2019	22/05/2019	26	20
2018	A one day seminar on Intellectual Property Rights: Emerging Issues And Challenges	Training	10/10/2018	10/10/2019	21	18
2019	Hands on Training on 3D Printing	Workshop	12/12/2018	12/12/2018	25	12

2019	Design Thinking Bootcamp	Hands on Training	03/05/2019	10/05/2019	63	19
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Certificate Course on Patent Search and Drafting by College of Engineering Guindy	2	25/06/2018	29/06/2019	5
Workshop on Digital Marketing by Mr.Nikylkumar A nanthakrishnan, Creative Director, The Perfect Circle Solutions Pvt Ltd	6	05/09/2018	05/09/2019	1
Lean manufacturing and 7 QC tools by Roots Industries India Limited, Coimbatore	3	15/11/2018	17/11/2018	3
Workshop on "AI" in CS - Modern Artificial Intelligence Techniques for Cyber Security	1	03/01/2019	04/01/2019	2
National Institute of Technical Teachers' Training and Research, Kolkata established by the Ministry of Human Resource Development, Government of India	1	03/12/2018	07/12/2018	5

AICTE QIP short term course on "Embedded system Design"	2	25/03/2019	31/03/2019	7
QIP sponsored short term course on "5G technology and application"	2	28/05/2018	03/06/2018	7
Design Thinking Bootcamp	10	17/06/2019	22/06/2019	6
Application of SPT5	5	10/01/2019	11/01/2019	2
Training Program on academic leadership	1	30/07/2018	02/08/2018	4

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
163	163	53	53

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Seed money assistance from management to undertake minor projects.</p> <p>- The college offers 50 of the registration fee with OD for faculty who are presenting the papers in national International Conferences. - Rs.1500 Rs.1000 cash award for paper presented in International and National Journals. - Group Medical Insurance, EPF, Faculty exchange Programme, Staff club - Encouraging faculty to enhance their qualification (M.Phil/ Ph.D., programme) Medical Group Insurance EPF, Staff club</p>	<p>Medical Group Insurance EPF Higher studies benefits Staff club</p>	<p>Women Empowerment Scheme Anti -Ragging Cell Counselling Cell Students Grievance Cell Prevention of Sexual Harassment Cell Medical Insurance Fee waiver schemes SRI SNS Charitable Trust Scholarship for poor students and for toppers</p>

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

SNS College of Engineering follows a well defined audit system to the check financial aspects of the institution. Tuition fee collected from the students is the source of income for the organisation. Institution and students' developmental activities and annual maintenance of the organization are met out through this income. Institution conducts internal and external audits periodically. The transactions and the statement of accounts prepared are audited internally by the Finance Manager in the Head Office and the External audit is being conducted by M/s. K.S. Palanisamy Co, Chartered Accountants, Coimbatore.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Government of India, Ministry of Human Resource Development (MHRD)	500000	Unnath Bharath Abhiyan (UBA) - Rural development scheme
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6.4.3 – Total corpus fund generated

204.67

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Experts from reputed Institutions	Yes	IQAC
Administrative	Yes	External Experts from reputed Institutions	Yes	IQAC

6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

1. Mentoring session 2. Parents meeting - Semester once 3. Students achievement discussion Parent teachers meetings are conducted to have a platform to interact with students, parents and teachers. These meetings help in improving the holistic development of the students. 1. During the meeting, the parents are informed about the Attendance of the ward, internal marks, dress code, code of conduct and the overall academic performance of the student. 2. Parents suggest the ways and means for the development of the college during parents meeting. 3. Educative programmes for parents are offered through these kind of gatherings. Parents are oriented on online fee payment system, usage of online education, handling of present day youth. 4. A feedback form is received from the parents related with the syllabus offered and suggestions are received to improve student - Parent and teacher relationship. • Alumni parents are invited for giving guest lectures, special talks and internship to the students. • A student is attached with a faculty mentor who will assist the student to grow and the same is updated to their parents during the meeting or as and when required. College happenings such as placements, programmes, etc are communicated to parents via SMS.

6.5.3 – Development programmes for support staff (at least three)

1. Skill development programmes 2. Training on fire extinguisher 3.Roles and Responsibilities Permission to do higher studies to enhance their qualifications. • Frequent training programmes are conducted to upgrade their skills. • They are sent for Industrial training during Vacation to improve their skills • Ethics, Team Building, Leadership skills, etc is conducted once in amonth

6.5.4 – Post Accreditation initiative(s) (mention at least three)

1. Plan to get autonomous status - Curriculum Development 2. To form the Board of studies 3. Establish COE 4. To drive our institution under 5 pillar namely (CLT,CFC,SCD,IIPC SRI) 4. Effective implementation of Outcome Based Education(OBE) and Choice BasedCredit System(CBCS) is in practice. 5. CBCS offers a range of choice forstudents to choose from Professional Core and Electives, Open Electives,Engineering and Basic Science, Humanities and Science courses and Employability enhancement courses. 6. Incorporating Design Thinking during delivery of lectures 8. Incorporation of innovativeteaching pedagogies such as ICT enabled lectures, Group discussion,industry case studies think-pair-share, analogy etc. for effective teaching learning process. 7. To inculcate lifelong learning, the Institution motivates faculty members and students to complete one course per year in self-learning mode throughonline portals like NPTEL, SWAYAM, Udemy,etc 10. Online quick assessment by using tools during class room sessions. 8. Faculty visits to the industry,research laboratories, and universities in India abroad. 9.. Management sanctions Rs.14 Lakhs every year for research and development. 1013. Established Center of Excellence in Robotic Process Automation in collaboration with Automation Anywhere Inc 14. 11.IQAC Goal setting on 5 pillars for faculty membersand students with benchmarks.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	"Design Thinking Bootcamp"	25/06/2018	25/06/2018	30/06/2018	1543
2018	IQAC Quarterly Meeting I Preparation of 2018-19 Action Plan	29/06/2019	29/12/2019	30/12/2019	15
2018	Framing the goals /targets for each faculty member with their academic,	20/07/2018	20/07/2018	20/07/2018	167

	teaching, administrative and research responsibilities				
2018	Workshop on Various Teaching Pedagogies and Technology based learning, QP Quality Index Blooms Taxonomy	01/01/2019	01/01/2019	01/12/2019	87
2019	Fresh autonomous status awareness programme	10/07/2019	10/07/2019	10/07/2019	83
2019	Policy attainment- (2018-19)	29/05/2019	29/05/2019	29/05/2019	28
2019	Goal Review meeting	12/04/2019	12/04/2019	12/04/2019	123
2019	Revised Guidelines for Fresh Autonomous college 2019	26/04/2018	26/04/2019	26/04/2019	123
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Engineers day	15/09/2018	15/09/2018	25	55
Subramanya Bharathi Drawing Competition	11/12/2018	11/12/2018	2	10
"Poster Making Competition on 'Women in Science'"	08/03/2019	08/03/2019	30	20
"Awareness	17/10/2018	17/10/2018	50	40

Program on Women Safety and Respect"				
Session on "Unlock your Potential - Communicate with Confidence"	24/01/2019	24/01/2019	2	31
Career Guidance Programme on How to handle unexpected situations in Workplace	19/02/2019	19/02/2019	80	120
Session on "Women in Workforce"	08/03/2019	08/03/2019	2	44
"Financial Literacy for Women"	18/09/2018	18/09/2018	2	35
" 'Economic Empowerment of Indian Women: Theory and Practice' ' -Debate Competition"	08/03/2018	08/03/2018	25	20
An art of taking up competitive examinations	21/12/2018	21/12/2018	17	10

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
23

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	50
Ramp/Rails	No	75
Braille Software/facilities	No	0
Rest Rooms	Yes	1500
Scribes for examination	Yes	8
Special skill development for differently abled students	No	0

Any other similar facility	Yes	400
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7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	2	2	03/01/2019	8	Tree plantation and Swachhata Pakhwada	2	490
2018	4	4	12/04/2019	6	Health	4	480
2019	1	1	16/08/2018	6	Road safety	1	27

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Students Calendar (Handbook for Students) consists of Code of Conduct for 1. Students in College 2. Students in Hostel 3. Parents	15/06/2018	All the stakeholders are informed about the code of conduct at the starting of the year. Students who indulge in any form of misconduct can be resolved directly by the faculty or instructor. If a professor or instructor determines that a student has engaged in classroom/field misconduct, he/she may raise the problem to the concerned Head of the department. The same issue can be brought to the knowledge of the Principal if needed. To monitor the overall performance of the students one faculty member has been assigned as a mentor for 15 to 20 students. Students will be guided by their mentor for any academic or nonacademic support Mentor set the targets for their ward and helps

		him to attain the targets. He records the accomplishments of their academic performance and participation in club activities and any other initiatives. In order to improve the academic performance of the students and to groom them in all aspects Tutorward meeting, collaborative meeting and class committee meeting is being conducted regularly every fortnight.
Staff Policy Book (Teaching and Non Teaching)	21/06/2018	taff policy book describes all the activities to be carried out by the faculty members. It is prepared based on their grade/cadre.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Sudarshan Kriya	04/08/2018	04/08/2018	88
Teachers day	05/09/2018	05/09/2018	179
Childrens day	14/11/2018	14/11/2018	88
Drug Free India	09/02/2019	09/02/2019	200
Independence Day Celebration	15/08/2018	15/08/2018	150
Republic Day Celebration	26/01/2019	26/01/2019	150
Slogan Writing Competition on Gandhi Jayanti	02/10/2018	02/10/2018	50
Celebration of Swami Vivekananda Birthday	17/01/2019	17/01/2019	50
Vigilance Awareness Week	29/09/2018	03/11/2018	50
A session on "Leadership of Mahatma Gandhi"	01/10/2018	01/10/2018	60

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Green Practices in the following ways: a] Bicycle (use by students) b) Public Transport (students Faculty) C) Plastic free campus D] Paperless office E] Green landscaping with trees and plants i) Plastic-free campus: The College has

a plastic-free campus. Green landscaping with trees and plants Green Building: ii) This building focusing on waste and energy conservation technique iii) Paperless office At SNS, the established principle of 'Reduce - Reuse - Recycle' is very much in practice with regard to the use paper and Official college information is disseminated through online Management Information System iv) (MIS) and the FTP, all of which are accessible by means of an official ID and password to faculty members within a LAN system on the campus. v) Use of solar energy vi) Sewage Treatment plant vii) CCTV Cameras viii) Installation of ample number of power saving LED lights in campus ix) Rainwater tanks are constructed for harvesting rain water to prevent soil erosion and to meet water requirement partially. Various clubs and forums are actively involved in the maintenance of ecological balance in the campus Green audit has been conducted regularly by NSS, YRC, RRC units. 117 saplings, 345 plants and 283 trees are planted in and around the college premises and maintained and nakshatra garden also maintained. Vehicle pooling is encouraged in the college. The wastes are collected and stored in separate places until they are disposed off to specialized dealers. • Apart from class rooms and laboratories, dust bins are kept in many places for clean maintenance of the campus.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Industry Based Collaborative Activities The objectives of this initiative are: • To integrate pure academics and pervasive industry Engagement. To provide students with skills for employment and imbibe positive work ethics needed to meet the demands of the changing industry and global environment • To enhance learning experience by participating in the Industry-integrated Collaborative Learning. • To enhance learning by incorporating experimental and experiential learning. The college always aims to have a good interaction with the industry, and believes that the gap between industrial need and academia could be bridged by regular interaction with the industry. This is attained by development of laboratories in collaboration with industries • Establishing industry interaction through Industry Institute Participation Cell [IIPC] Imparting in-plant training/internship/industrial training to students and faculty members at industries • Inviting more people from industry to deliver Guest lectures • Conduct workshops/Seminars/FDPs/STTPs in association with industry • Industrial Projects and Consultancy works • Organizing HR Conclaves /HR meets/CEO talks to provide platform for students to have close interaction with HRs/Technical experts from reputed industries. Collaborative activities with Industries would also enhance the students' learning experience in many aspects like Acquiring New Skills and Knowledge and Preparing for Industry Ready Graduates The Practice • Industry In the consultation with MOU signed industries (Infosys Campus Connect) to meet their current requirements for making the graduates industry ready from day one onwards. Industry internship: The students are encouraged to undergo industry internship regularly. Faculty members regularly visited various academic institutions and industries regularly to share and enhance their knowledge and to equip the students in the relevant fields. • MoUs: The College has signed more than 228 MoUs with both National and International Industries/Universities. The college has signed MOU with Kyungpook National University, South Korea university of Malaya in Malaysia for collaboration. 2. Objectives of the Practice Student-centered learning environment is one where the focus of instruction is shifted from the teacher to the student, with the goal of developing students who are self-directed and independent, by placing the responsibility of learning in the hands of the students. Engaging students, teaching problem solving skills, getting students to think about thinking, allowing students to have control, and encouraging collaboration are all Characteristics of learner-centered teaching. The following are the benefits of student centered learning Develops

independent and teamed up thinking skills. Develops communication and social skills. Encourages alternative methods of assessment. Helps students transfer skills to the real world. Promotes intrinsic motivation to learn. The Activity Based Learning (ABL) method uses student-friendly educational aids to foster self-learning and allows students to study according to his or her aptitude and skill. Activities in each milestone include understand a concept. Activity Based Teaching Learning (ABL) is an effort to overcome the limitations of traditional mode of course delivery. Progressive pedagogical models are used for the enhancement of course learning. To meet the objective different activities are designed and practiced along with class room teaching. The Practice It is a real challenge to make the students strong in their theoretical concepts to carry out projects. To facilitate this project based approach, learning through activities is practiced in the classes. The issues are addressed by adopting activity based pedagogical teaching learning practices. The framework of pedagogical activities designed and practiced in teaching learning includes several activities: icebreakers, warm up sessions, mid lecture wakeup activities, game based learning, worksheets, simulations, one minute talks, group discussions, hourly plans, think pair and share, case studies, implementation assignments, quizzes etc. Evidence of Success Activity-based learning is based on effective student-teacher interaction. Active learning encourages students to inquire, explore, experiment, collaborate and experience the joy of learning. In this technique the role of teachers shifts from that of delivering knowledge to that of facilitating and motivating. It provides interactive classroom environment. It provides scope for group discussions and thinking beyond the curriculum. The presentation skills are improved. Peer learning by think pair and share is possible. The students are encouraged to apply the theoretical concepts to real time scenarios. The immediate feedback is used to fill the gap of teaching and learning. These activities helped the students to publish research articles in National and international journals. Students actively involved themselves in developing innovative mini projects and brought laurels to the college by participating in various competitions. Students who have passed out have done extremely well in the corporate world. Some students have put their learning into application by starting their own business. The student-centered learning approach is diametrically opposed, in its ethos, to the philosophy underlying the conventional method of learning. By its very nature, student-centered learning allows students to shape their own learning paths and places upon them the responsibility to actively participate in making their educational process a meaningful one

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

SNS college of engineering focuses on Design Thinking method in curriculum delivery, research activities, projects, and all associated curricular and other activities. Design Thinking is a design methodology that provides a solution-based approach to solve problems. It's extremely useful in tackling complex problems, • By understanding the human needs involved • By re-framing the problem in human centric ways • By creating many ideas in brainstorming sessions and • By adopting a hands-on approach in prototyping and testing. Understanding these five stages of Design Thinking will empower the students and faculty members. SNS focuses on the five-stage Design Thinking model. The five stages of Design Thinking are as follows: Empathizing: Understanding the human needs involved. Defining: Re-framing and defining the problem in human centric ways.

Ideating: Creating many ideas in ideation sessions. Prototyping: Adopting a hands-on approach in prototyping. Testing: Developing a prototype/solution to the problem. To immerse students into the world of innovation as a systematic process of tackling relevant business and/or social problems. • To provide a social and thinking space for the recognition of innovation challenges and the design of creative solutions. • Using a practical hands-on approach, this workshop will support student in the sketching, conception and early development of an innovation challenge, which is a critical input for the innovation course • To exercise their foresight and insight muscles in the process of opportunity identification/creation. SNSCE works on Design Thinking in 7 industry verticals and 5 technologies as its thrust areas, and they are as follows: 7 INDUSTRY VERTICALS Agriculture Food Technology Healthcare Biomedical Power Energy Aerospace and Defence Automobiles Smartcity Automobiles Fintech 5 innovative Tech Augmented reality / Virtual reality Internet of Things Data Analytics Robotics and Automation 3D Printing Data Analytics Design thinking Boot Camps of 1 week duration is organized for Students, Faculty Members and Supporting staff members. All were made to experience the 5 stages of design thinking. As an outcome of this highest number of innovative ideas were exhibited by the students of SNSCE in the Codissia Trade Fare Complex.

Provide the weblink of the institution

<https://snsce.ac.in/home/#ourdifferentiators>

8. Future Plans of Actions for Next Academic Year

1. To introduce new regulation R 2019 incorporating DT framework
2. To introduce Industry Integrated courses specialising in Artificial Intelligence, Data Analytics, IoT, 3D Printing and AR/VR
3. To inculcate modern teaching pedagogy using advanced ICT tools (Moodle, Kahoot, Hot Potato, Plickers and Google Classroom)
4. To have effective learning practice by having student centric learning approach
5. To educate the students to use resources available in MOOC portals such as NPTEL, Course era, Udemy to have lifelong learning processes
6. To establish Centre of Excellence in few areas such as Robotics and Automation and AR/VR
7. To create research culture among faculty members and students and motivate them to publish their research work in Scopus/ web of science indexed Journals.
8. To encourage the students and faculty members to publish more patents/copyrights for their innovations.
9. To organise collaborative International Conferences and Faculty Exchange Programme with Foreign Universities (South Korea, Malaysia, Singapore).
10. To enrich the Academic partnership with leading Industries like Infosys, IBM, and Google, Texas Instruments etc.
11. To generate more revenue through consultancy to the Industry and Public Organization.
12. To keep students updated with latest operational trends and career prospects
13. To establish MHRD's Innovation centre in the campus.
14. To imbibe values and ethics among students by regularly having moral talks, Social responsibility activities etc.
15. To establish a holistic learning environment with academics, co curricular activities, sports, etc