



## Yearly Status Report - 2019-2020

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	<b>SNS COLLEGE OF TECHNOLOGY</b>
Name of the head of the Institution	<b>Dr. S. Chenthur Pandian</b>
Designation	<b>Principal</b>
Does the Institution function from own campus	<b>Yes</b>
Phone no/Alternate Phone no.	<b>04222666264</b>
Mobile no.	<b>7550316705</b>
Registered Email	<b>snsct@snsgroups.com</b>
Alternate Email	<b>principal@snsct.org</b>
Address	<b>SNS Kalvi Nagar, Sathy Main Road, Vazhiyampalayam, Saravanampatti Post, Coimbatore</b>
City/Town	<b>Coimbatore</b>

State/UT	Tamil Nadu
Pincode	641035
<b>2. Institutional Status</b>	
Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Aug-2012
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. R. Rajasekaran
Phone no/Alternate Phone no.	04222666264
Mobile no.	9698891301
Registered Email	iqac@snsct.org
Alternate Email	aqarsnsct@gmail.com
<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://main.snsct.org/wp-content/uploads/2020/09/AQAR-SNSCT-2018-19.pdf">https://main.snsct.org/wp-content/uploads/2020/09/AQAR-SNSCT-2018-19.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://main.snsct.org/wp-content/uploads/2021/05/CALANDAR-2019-2020_ODD-EVEN_FINAL.pdf">https://main.snsct.org/wp-content/uploads/2021/05/CALANDAR-2019-2020_ODD-EVEN_FINAL.pdf</a>

**5. Accrediation Details**

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.02	2012	05-Jul-2012	04-Jul-2017
2	A+	3.51	2017	12-Sep-2017	11-Sep-2022

**6. Date of Establishment of IQAC**

15-Sep-2012

**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
Short Term Training Programme on Development of Laboratory Instruction and Manual in association with National Institute of Technical Teachers	29-Jul-2019 1	30
Framing the goals /targets for each faculty member with their academic, teaching, administrative and research responsibilities	20-Jul-2019 1	262
Submission of Data to NIRF	15-Feb-2021 1	16
Academic Audit Odd Semester	27-Jan-2020 1	16
External Academic and Administrative Audit	26-	16

	Jul-2019 1	
Collection and analysis of Stake holders feedback and forwarded it to CDC/BoS for necessary action	18-Dec-2019 1	48
IQAC Quarterly Meeting IV - Via online	27-May-2020 1	22
IQAC Quarterly Meeting III	08-Jan-2020 1	20
IQAC Quarterly Meeting II	06-Sep-2019 1	22
IQAC Quarterly Meeting I Preparation of 2019-20 Action Plan with benchmarks	19-Jun-2019 2	22

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8. Provide the list of Special Status conferred 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.S.Karthik	Project	TNSCST	2019 730	210000

Ms.R.N.Saraswathi & Ms.S.Shalini	FDP	TNSCST	2019 365	15000
Dr.S.Karthik Mr.S.Prince Samuel	Science & Technology Projects (STP)	TNSCST	2019 365	214000
Dr.N.J.R.Muniraj	Grant for Organizing Conference (GOC)	AICTE	2019 180	166667
Dr.P.Tamilselvam	Entrepreneurship Awareness camp	DST-NIMAT	2019 365	16000
Dr.P.Tamilselvam	Seminar	IE (I)	2019 1	10000
Dr.M.Subramanian	Student Project	TNSCST	2019 120	7500
Dr.P.Tamilselvam	MODROBS	AICTE	2019 1080	1490000

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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

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**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

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**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. Centre for Learning and Teaching (ICT enabled and Activity based Learning) ii. Centre for Creativity (Research, Innovations and Entrepreneurship) iii. Industry Institute Partnership Cell (Internship/Inplant Training, MoU and Placement) iv. Skill and Career Development (Training, Hackathon/go kart/ekart) v. Social Responsibility Initiatives (Extension) 2. Design Thinking based Curriculum framework An iterative process / methodology is incorporated in the essentials like curriculum, Teaching Learning process and other innovation activities. 3. Industry and University collaboration activities like ARIIA / ATAL, AICTE CII Survey, The Week Survey, Career360 Ranking, AICTE Startup Policies for Training, Research, Placements, Entrepreneurship, Smart India Hackathon were established by various linkages with them. No. of Linkages: 205 MoUs: 140 4. Numerous capability building programs for both the students and faculties were organised in association with many professional bodies and industries. (No. of Programmes organized: 292) 5. Various policies and procedures of AICTE/UGC/MHRD were disseminated by the IQAC pillar by its continuously working and effective implementations is done. IQAC also shown its immense level of hardwork in collecting the qualitative and quantitative data from every units of all the departments and institution by which various accreditations and rankings are applied.

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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 academic results and Placement	Graduate Rate : 91 Placement : 86 Industry based curriculum Design Thinking based curriculum framework for R2019
To enhance Quality in Teaching methodologies	Design Thinking based delivery methods 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 improve	Design Thinking Workshops to Students FORGE-iStart & iCamp (Incubation) Students

Innovation and creativity of Students	Exchange /summer internship @ IITs 4 Teams Selected won awards in Smart India Hackathon Journal Publications :130 Conferences: 285 Symposia:210 Industrial Main Projects: 228 Industrial visits :481 Inplant Training: 687
To Enhance Industry Institute Collaborative Activities	3 Centre of Excellence and 3 Startup's are Established No. of MoUs : 140 [38 New] Outcome of MoUs : Industrial Project/ Consultancy/ IPT / Internships / Faculty Training etc Placement % : 86% Internship: 1280 Industrial Projects: 228 Notable MoU with Industries · Carevium, Inc, USA · AIMST University, Malaysia · Thulliam Info Tech Pvt Ltd
To Conduct more national level seminars/workshops by all departments.	International Conference: 2 Research Conclave:1 National Conferences:10 Workshops/Seminars / Webinars: 395 Guest Lectures: 130 Faculty Development Programmes: 15
To augment Quality International Journal Publications by faculty	International Journals: 146 International Conferences : 88 Scopus: 92 Web of Science:13
To improve Filing of Patents /copyrights	Patents Published: 19 Design Patents Granted:2
To conduct Internal & External Academic Audit, Log book Verification, External Audit	Done regularly
To apply for ranking and grading by renowned organizations	Participated in AICTE-CII Survey and received Platinum Grade NIRF Ranking: Placed in 251-300 band Received CEGR award for 'Best Engineering college in South India' and Change Maker of the Year Award, 2019'

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1"> <tr> <th>Name of Statutory Body</th> <th>Meeting Date</th> </tr> <tr> <td>Governing Council</td> <td>23-Aug-2021</td> </tr> </table>	Name of Statutory Body	Meeting Date	Governing Council	23-Aug-2021	
Name of Statutory Body	Meeting Date				
Governing Council	23-Aug-2021				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2020				
Date of Submission	23-Jan-2020				
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 fullfledged 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, examinations, marks, fee payments, etc is available for timely decision making and actions. The College library is automated and the information available to the students and staff at finger tips. 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: 1.</p>				



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 1. Admission Module 2. Fee Module 3. Attendance Module 4. IA Module 5. Courseware Module 6. COE Module 7. Library Module 8. Student Module 9. Faculty Module 10. Alumni Module 11. Corporate Relation Module

## Part B

### CRITERION I - CURRICULAR ASPECTS

#### 1.1 - Curriculum Design and Development

##### 1.1.1 - Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	BEAE	Aeronautical Engineering	10/08/2019
BE	BEAU	Automobile Engineering	10/08/2019
BE	BEAG	Agriculture Engineering	10/08/2019
BE	BEBM	Bio-Medical Engineering	10/08/2019
BE	BECE	Civil Engineering	10/08/2019
BE	BECF	Civil Engineering and Planning	10/08/2019
BE	BECS	Computer Science and Engineering	10/08/2019
BE	BEEE	Electrical and Electronics Engineering	10/08/2019
BE	BEEC	Electronics and Communication Engineering	10/08/2019
BE	BEEI	Electronics and Instrumentation Engineering	10/08/2019

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## 1.1.2 - Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	For all B.E and B.Tech	07/08/2019	19ENB101 Communicative English	10/08/2019
BE	Automobile Engineering	07/08/2019	16GE303 Total Quality Management	10/08/2019
BE	Mechanical Engineering	07/08/2019	16ME415 Entrepreneurship Development	10/08/2019
BE	Bio-Medical Engineering	07/08/2019	16GE304 Principles of Management	10/08/2019
BE	Bio-Medical Engineering	07/08/2019	16GE306 HRM and Entrepreneurship	10/08/2019
BE	Civil Engineering	07/08/2019	16CE319 Foundation Engineering	10/08/2019
BE	Computer Science and Engineering	07/08/2019	16CS322Python Programming	10/08/2019
BE	Electronics and Communication Engineering	07/08/2019	16ECOE1 Electronics for Home Appliances	10/08/2019
BE	Electrical and Electronics Engineering	07/08/2019	16EE325 Renewable Energy Sources	10/08/2019
MBA	MBA	07/08/2019	19BAE703 Entrepreneurship Support Systems	10/08/2019

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## 1.2 - Academic Flexibility

## 1.2.1 - New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Food Technology : Fundamentals of Food Processing	10/08/2019
BE	Aeronautical Engineering : Design Thinking and Innovation, Indian Constitution	10/08/2019

BE	Agriculture Engineering : Linear Algebra and Calculus, Chemistry for Engineers, Integral Calculus and Laplace Transforms, Physics for Engineers, Communicative English, Professional Communication, Programming in C and Data Structures, Programming in C and Data Structures Laboratory, Engineering Drawing, Basic Electrical and Electronics Engineering, Engineering Mechanics, Workshop practice laboratory, Principles of Agricultural Engineering, Harvesting and Thrashing Machinery, Dairy and Food Engineering, Irrigation and Drainage Engineering Management of Farm Machinery and Implements Lab, Dairy and Food Engineering Lab, Irrigation and Drainage Engineering Lab, Refrigeration and Air Conditioning, Minor Irrigation & Command Area Development, Agri Business Management, Agro-Energy Audit And Management, Production Technology of Agricultural Machinery, Heat and Mass Transfer, Mechanics of Tillage & Traction, Packaging Technology Protected Cultivation Climate Change And Adaptation, Fat And Oil Processing, Disaster Management, Water And Wastewater Engineering, Energy Conservation In Food Industry, Design of irrigation systems, Public Health Engineering, Extension Methodologies for Agriculture, Environmental Impact assessment, GIS and Natural resources management, Storage Technology, Quality Management in Food Industries, Forest Resource Management, Energy Management in Agriculture, Farm Mechanization, Design and Installation of Drip system for Crops, Value addition of fruits, vegetables or millets, Manufacturing Technology of Agricultural Machinery	10/08/2019
BE	Automobile Engineering : Fuel Cell & its Applications, Tractor and Farm Equipments, Automotive Control Systems, Electric Drives and Controls for Electric Vehicles, Computer Integrated Manufacturing, Automatic Transmission	10/08/2019
BE	Civil Engineering : Ground Improvement Techniques, Construction Planning and Management, Basic of Dynamics and Aseismic, Design of Structures, Real Estate Planning and Management, Pavement Engineering, Building services, Coastal Engineering, Geo-Environmental Engineering, Disaster Management, Human Rights, Storage Structures, Employability Skills, Total Station Construction in Field Practices, Valuation, Building modeling using software, Software application in steel structures	10/08/2019
BE	Computer Science and Engineering : Knowledge Management, Machine	10/08/2019

	<b>Learning, Agent Based Intelligent Systems, Python Programming</b>	
<b>BE</b>	<b>Electronics and Communication Engineering : Electron Devices and Electric Circuits</b>	<b>10/08/2019</b>
<b>BTech</b>	<b>Information Technology : Cryptanalysis Laboratory, Front end Technologies Information Retrieval, Software Defined Networks, User Interface Design Digital Marketing (Offered by Verticurl), Enterprise Resource Planning, Social Network Analysis, Network Processor.</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Mechanical Engineering : Basics in Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Mechatronics Engineering : Engineering Materials, Fuzzy Sets and Artificial Intelligence</b>	<b>10/08/2019</b>

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1.2.2 - Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

<b>Name of programmes adopting CBCS</b>	<b>Programme Specialization</b>	<b>Date of implementation of CBCS/Elective Course System</b>
<b>BE</b>	<b>Aeronautical Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Automobile Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Agriculture Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Biomedical Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Computer Science Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Civil Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Electronics and Communication Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Electrical and Electronics Engineering</b>	<b>10/08/2019</b>
<b>BE</b>	<b>Electronics and Instrumentation Engineering</b>	<b>10/08/2019</b>
<b>BTech</b>	<b>Information Technology</b>	<b>10/08/2019</b>
<b>BTech</b>	<b>Food Technology</b>	<b>10/08/2019</b>

BE	Mechanical Engineering	10/08/2019
BE	Mechatronics Engineering	10/08/2019
ME	Power Systems Engineering	10/08/2019
ME	Thermal Engineering	10/08/2019
ME	Structural Engineering	10/08/2019
ME	Computer Science Engineering	10/08/2019
ME	VLSI Design	10/08/2019
MBA	Master of Business Administration	10/08/2019
MCA	Master of Computer Applications	10/08/2019

### 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
Soild Works	10/08/2019	21
MATLAB	10/08/2019	24
CATIA V5	10/08/2019	11
ANSYS	10/08/2019	11
Design and Installation of Drip system for Crops	10/08/2019	40
Value addition of fruits, vegetables or millets	10/08/2019	33
Need for Farm Mechanization	10/08/2019	40
Design of Agriculture Machinery	10/08/2019	33
Evaluation of Vehicle Technology - Fusion 360 Integrated CAD/CAM/CAE	10/08/2019	51
Geometric Dimensioning and Tolerancing for Automobile	10/08/2019	37

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#### 1.3.2 - Field Projects / Internships under taken during the year

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Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Aeronautical Engineering	44
BE	Automobile Engineering	94
BE	Agriculture Engineering	108
BE	Bio-Medical Engineering	113
BE	Civil Engineering	131
BE	Civil Engineering and Planning	41
BE	Computer Science and Engineering	366
BE	Electrical and Electronics Engineering	98
BE	Electronics and Communication Engineering	315
BE	Electronics and Instrumentation Engineering	46

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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

The college has a formal mechanism to obtain feedback from the students regularly regarding the curriculum and syllabi and the method of delivery by the faculty concerned. The College has a three tier feedback system to ensure that the Programs and student services cater to the specific

needs of the community and all its Stakeholders. 1. Feedbacks are obtained from different stakeholders to make major decisions regarding curricula like addition of the programmes and courses, revision of the existing courses. Suggestions from stakeholders such as students, Alumni, Faculty, Industry and Academic experts, Employers are sought for the development of the curriculum. This ensures that the curriculum developed encompasses the component of employability, research relevant thrust areas, is socially relevant and addresses societal needs appropriately. 2. Feedback collected from the stake holders are used to modify the curriculum to include the latest and real time applications. These feedbacks are analysed by the curriculum development committee. Importance is given to identify the areas where a graduate needs more improvement to perform as per expectations of the employers. Feedbacks collected are analysed and discussed in the departmental meetings. The modified curriculum and syllabus incorporating the changes are sent to the Board of Studies for necessary action. 3. During the course of study, the class committee meeting is conducted atleast two times in a semester. The committee consists of 6 students representing the academic and non academic problems in the meeting. Based on the feedback received on the curriculum and content of the courses due considerations were given by the curriculum development committee. 4. Few feedbacks received are cited below: a. Mr.S.Dhanuvanth (2016-2020) B.E Mechanical Engineering student represented that as there are wide scope for latest domains such as Data Science, Machine learning etc for mechanical graduates hence it would be more helpful if we have Data structures, Python sort of courses as core paper in the first or second year of the programme. Based on his input C and Datastructures is introduced as a course for Mechanical and allied branches from 2019 onwards. b. Ms.J.Vasuki AP/IT given a feedback that Graphics and Animation are ruling the Media world and further students will have wide opportunities in Gaming and related industry hence suggested to introduce 3D animations, AR, VR courses with practical components. This has been incorporated in the curriculum for CSE, IT and MCA students c. One of our Parent Mr.Sakar SR, Founder CEO (F/o S.Vaishali B,E CSE 2016-20)of a company strongly emphasised to include Cost Estimation, Business Management, BMC, Startup related courses in the curriculum which is essential for any engineer who is graduating inspite of his career option of Employment/ Entrepreneurship/Higher Studies etc.

## 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
BE	Aeronautical Engineering	30	40	16



BE	Agriculture Engineering	60	95	48
BE	Automobile Engineering	60	73	20
BE	Bio-Medical Engineering	60	92	50
BE	Civil Engineering	60	75	27
BE	Computer Science Engineering	180	286	170
BE	Electronics and Communication Engineering	180	192	125
BE	Electrical and Electronics Engineering	60	72	28
BE	Electronics and Instrumentation Engineering	30	34	16
BTech	Food Technology	60	72	29

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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
2019	3394	328	205	20	37

## 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
262	262	10	73	16	40

[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)**

The College has a well structured mentoring system comprising of counsellors/ mentors/ advisors for each student for academic, personal and psycho-socio guidance. This enables the students to express/ share their academic and personal difficulties with their respective Advisor and Mentors. All the Teachers are involved in the process of mentoring. Every mentor is allotted with about 15 to 20 students to take care of them. The mentor maintains all particulars of students in a progress card (Green card - UG/ Blue card-PG) and the counselling records. Two hours are maintained by each faculty during which the faculty stays after college hours for counselling the students which helps the faculty to have individual attention for the needy students. It helps the mentor to study how far a particular student has been successful in his/her academic career. Both the class advisor and mentor constantly update the progress of the student to their parents/ guardians. The mentors are guiding and supporting the students to enhance their academic, co-curricular and extracurricular activities. It helps the students to clarify their doubts and to get know the available opportunities for their career development. The mentor also works for finding out hidden talent of the students in various aspects of academic, co - curricular, extra - curricular and extra mural activities so that they can be promoted to do various activities in the concerned area for their holistic development. Based on this, the mentor assigns the target on co-curricular, extracurricular and other activities at the beginning of the every academic year. The progress of the mentee on the targets is monitored and reviewed frequently to achieve the goals and the same is documented. Mentors encourage, create interest and guide the students especially advanced learners to enrol for MOOC/ NPTEL courses and top contests in national/international level. The slow learners are encouraged to attend extra classes to cope up with their peers. The progress of the students is periodically informed to their parents through phone call or SMS and parent meeting is arranged as and when required. Along with the academic related issues, the mentors also involve themselves in improving the students from personal issues and stress related problems through frequent counselling's. The students, who are having personal problems, are also guided to meet the special counsellor so as to resolve the concerns. Through this mentor-mentee system the institution assures a constructive professional relationship between students and the faculty. To Site an example, one of our students of B.Tech. Information Technology had a problem in speaking due to stammering issue, he avoids speaking to anyone. He was personally counselled with utmost care by his Mentor and he was made to speak with one of the Alumni who has triumph over the same problem. By the way of constant encouragement he has overcome the difficulty of stammering to some extent and he has become highly courageous to speak to any one without hesitation. He has shined in his academics and he has also registered a startup and running it

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3722	262	1 : 14

**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
262	240	22	22	58

## 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 receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Mr.T. Prabhu - International Level	Assistant Professor	Bright Researcher Award , International Institute of Organized Research
2019	Dr.R.Karthick - National Level	Associate Professor	Sri PK DAS Memorial Best Faculty Award - Senior, Nehru Group of Institutions
2019	Dr.P.Krishnaveni - State Level	Associate Professor	Best Organiser Award, Kovai Wonders of Women
2019	Dr.P.Tamilselvam - International level	Dean	Distinguished Professor and Head award , RULA International awards
2019	Dr.P.Vivekanandan - International Level	Professor	Outstanding Researcher Award, International Institute of Organized Research I2OR
2019	Mr. P. Leon Dharmadurai - State Level	Assistant Professor	Young Scientist Award, DR.ABDUL KALAM TRUST
2020	Dr. K. Yasoda - International Level	Assistant Professor	Best paper Award, SRM Institute of Science and Technology
2019	Dr.S.Raja Ranganathan - State Level	Associate Professor	Best Faculty Award, Accent Techno Soft
2019	Dr.C.Chandru Vignesh - State Level	Assistant Professor	Best Performer Award, FEP,Infosys, Bengaluru
2019	Mr.R.Sathish Kumar - International Level	Assistant Professor	Bright Engineer Award, Green ThinkerZ

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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	BEEI	I/I	11/01/2020	24/01/2020
BE	BEEE	I/I	11/01/2020	24/01/2020
BE	BEEC	I/I	11/01/2020	24/01/2020
BE	BECS	I/I	11/01/2020	24/01/2020
BE	BECF	I/I	11/01/2020	24/01/2020
BE	BECE	I/I	11/01/2020	24/01/2020
BE	BEBM	I/I	11/01/2020	24/01/2020
BE	BEAG	I/I	11/01/2020	24/01/2020
BE	BEAU	I/ I	11/01/2020	24/01/2020
BE	BEAE	I/ I	11/01/2020	24/01/2020

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2.5.2 - Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
Nil	3701	0

## 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://main.snsct.org/coe/#Curriculum>

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
BEEI	BE	Electronics and Instrumentation Engineering	25	20	80
BEEE	BE	Electrical and Electronics Engineering	50	41	82

BEEC	BE	Electronics and Communication Engineering	160	148	92.5
BECS	BE	Computer Science and Engineering	149	139	93
BECF	BE	Civil Engineering and Planning	16	14	87.5
BECE	BE	Civil Engineering	63	50	79.4
BEEM	BE	Biomedical Engineering	49	44	89.8
BEAU	BE	Automobile Engineering	54	39	72.20
BEAG	BE	Agriculture Engineering	49	43	88
BEAE	BE	Aeronautical Engineering	24	15	62.50

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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://main.snsct.org/wp-content/uploads/2021/08/SSS-2019-20.pdf>

## CRITERION III - RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 - Promotion of Research and Facilities

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

Yes			
Name of the teacher getting seed money	The amount of seed money	Year of receiving grant	Duration of the grant
SNS Faculty Members	1606391	2019	365

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3.1.2 - Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher	Name of the award	Date of	Awarding agency
------	---------------------	-------------------	---------	-----------------

	awarded the fellowship		award	
National	Dr.E.Mohankumar	Excellence in Research - Engineering	05/04/2020	Research Gateway
National	Dr.S.Sathishkumar	Best Performer	19/11/2019	Automation Anywhere, Bengaluru
National	Dr.M.Udhayamoorthi	Best Performer A Grade	29/05/2020	Infosys Technologies
National	Mr.E.Mohanraj	Best Emering Teacher Award	04/01/2020	Kites Krafe Productions
National	Mr.G.Tharanitharan	Business Across Borders - A Country Study(48Hrs) Course	10/09/2019	AIMST University, Malaysia
National	Mr.C.Senthilkumar	Business Across Borders - A Country Study(48Hrs) Course	10/09/2019	AIMST University, Malaysia
National	Mr.A.Natrajan	Business Across Borders - A Country Study(48Hrs) Course	10/09/2019	AIMST University, Malaysia
National	Mr.R.Karthikeyan	Internet of Things	20/12/2019	National Power Training Institute, Alappuzha, Kerala
National	Mr.M.Mohammed Arrifuden	Internet of Things	20/12/2019	National Power Training Institute, Alappuzha, Kerala
National	Mr.A.Vetrivel	Internet of Things	20/12/2019	National Power Training Institute, Alappuzha, Kerala

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### 3.2 - Resource Mobilization for Research

#### 3.2.1 - 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
Students Research Projects (Other than compulsory by the University)	365	Tamilnadu State Council for Science Technology	0.07	0.07
Industry sponsored Projects	365	Hi-Tech CNC Automation	0.35	0.35

Industry sponsored Projects	365	M.M Gear Pvt Ltd	0.3	0.3
Industry sponsored Projects	365	Global Nodes Engineering Solutions Pvt. Ltd.,	0.3	0.3
Industry sponsored Projects	365	Magnificent Engineers, Coimbatore	0.5	0.5
Industry sponsored Projects	365	Magnificent Engineers, Coimbatore	0.3	0.3
Industry sponsored Projects	365	Escorts Tractor Training and Development Centre, Bangalore	0.2	0.2
Students Research Projects (Other than compulsory by the University)	365	Sri Krishna Industries	0.38	0.38
Students Research Projects (Other than compulsory by the University)	365	Vertex Research Centre	0.29	0.29
Students Research Projects (Other than compulsory by the University)	365	Sri Krishna Industries	0.24	0.24

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3.2.2 - Number of ongoing research projects per teacher funded by government and non-government agencies during the years

52

### 3.3 - Innovation Ecosystem

3.3.1 - 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
Patent Prosecution	Computer Science and Engineering	06/05/2020
Patent Drafting and Filing	Information Technology	03/02/2020
International Webinar on Intellectual Property Rights	Mechanical Engineering	14/05/2020
National Seminar on IPR	Master of Business Administration	03/06/2019
Intellectual Property Rights	Master of Computer Applications	20/09/2019
How to write a Research Paper	Electronics and Communication	25/05/2020

	Engineering	
IoT Solutions Developer Program for Product Development	Electronics and Communication Engineering	14/10/2019
Startup Design	Electrical and Electronics Engineering	15/05/2020
Research Article Writing and Publishing	Information Technology	22/09/2019
One Day National Level Seminar on IPR	Science and Humanities	23/04/2020

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### 3.3.2 - 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
Innovation Engineer	Ms.G.Nivetha	FORGE	20/06/2019	Student
Best Paper Award-II Position	Ms. A.Priyadharshini	Sri Sakthi Institute of Engineering and Technology	08/02/2020	Student
Best Endurance	Mr. S. Saravanan	Kumaraguru College of Technology	07/03/2020	Student
Best Rider	Mr. D. Praveen Kumar	Kumaraguru College of Technology	07/03/2020	Student
Moto Cross (60 CC)	Mr. D. Praveen Kumar	KSR College of Engineering, Tiruchengode	28/02/2020	Student
Best Performer	Dr.S.Sathish Kumar	Automation Anywhere, Bengaluru	19/11/2019	Teacher
Best Researcher	Dr.K.Sangeetha	Green Thinkerz	17/04/2020	Teacher
Smart Voice Controlled Robot	Mr. A. Karthikeyan	Texas Instruments	20/11/2019	Teacher
Self Directing Shopper	Mrs. J. Jayageetha	Texas Instruments	20/11/2019	Teacher
Research Work and Academic Achievements	Ms. Nila A L	International Association of Research And Developed organization	07/12/2019	Student



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## 3.3.3 - No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Incubation Center for Electronics	Incubation Center for Electronics	Goodwill	Projects Club	PCB Design	14/12/2019
Renovate Technologies	Renovate Technologies	GRE Industries Bangalore	Renovate Technologies	Extending the Life of DeadBatteries by a NovelRefurbishment Process	20/02/2020
ABC Bikers Spot	ABC Bikers Spot	Goodwill	Safety Gear	Safety Gear Retail Outlet	22/05/2020

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## 3.4 - Research Publications and Awards

## 3.4.1 - Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Computer Science and Engineering	7
Electronics and Communication Engineering	2
Information Technology	1
Mechanical Engineering	2
Chemistry	1

## 3.4.2 - Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Aeronautical Engineering	3	1.86
International	Automobile Engineering	11	5.03
International	Agriculture Engineering	2	5.32
International	Biomedical Engineering	2	4.96
International	Civil Engineering	7	1.9



International	Computer Science and Engineering	36	1.24
International	Electronics and Communication Engineering	17	5.76
International	Electrical and Electronics Engineering	5	2.47
International	Information Technology	2	5.38
International	Mechanical Engineering	18	2.34

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3.4.3 - Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Master of Business Administration	2
Information Technology	5
Electronics and Instrumentation Engineering	1
Electrical and Electronics Engineering	11
Electronics and Communication Engineering	43
Computer Science and Engineering	2
Chemistry	7
Biomedical Engineering	2
Automobile Engineering	1
Agriculture Engineering	3

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3.4.4 - Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Energy and Time Efficient Variable Control Volume Pressure Cooker	Published	201741035413 A	22/11/2019
A Novel Method to Prepare Self-Compacting Concrete Using Single	Published	202041004257	17/02/2020

Alkali Activated Ash Based Concrete For Impact Strength Enhancement of Concrete			
Design of An Real time Smart Health Care System Through Data mining and IOT	Published	201941041826	16/10/2019
System and Method to Classify Metal Tasks	Published	202041022085	27/05/2020
Development of Smart Walking Stick for Visually Impaired Peoples	Published	202041012028	20/05/2020
Re-Engineered Bio RO Water Purifier	Published	202041000430	10/01/2020
Smart Gym Stationary Cycle	Published	202041002705	24/01/2020
Computerized Numerical Controlled Ceiling/Wall Plaster Machine	Published	201941039061	18/10/2019
Bio-fiber Reinforced Composite Materials	Published	201941043893	08/11/2019

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3.4.5 - 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
Colour and orientation of Pixel Based Video Retrieval using IHBM Similarity Measure	Mr.R Saravana Ram, Mr.C.B.Sivaparthipan, Mr.Balaanand Muthu	Multimedia Tools and Applications	2019	0	SNS College of Technology	Nill
Designing Statistical Assessment Health Care Information System For Diabetics Analysis using Big Data	Mr.C.B.Sivaparthipan, Mr.Balaanand Muthu	Multimedia Tools and Applications	2019	0	SNS College of Technology	Nill
An Enhanced Graph Based Semi-Supervised Learning Algorithm to	Mr.Balaanand Muthu, Mr.C.B.Sivaparthipan	The Journal of Supercomputing	2019	0	SNS College of Technology	Nill

Detect Fake users on Twitter						
Innovative and Efficient Method of Robotics for helping the Parkinsons Disease Patient using IoT in Big Data Analytics	Mr.C.B.Sivaparthipan, Mr.Balaanand Muthu	Transaction on Emerging Telecommunication Technologies	2019	0	SNS College of Technology	Nill
Iot Based Wearable Sensor For Diseases Prediction and Symptom Analysis in Healthcare Sector	Mr.Balaanand Muthu, Mr.C.B.Sivaparthipan	Springer Peer-To-Peer Networking and Applications	2019	0	SNS College of Technology	Nill
Influence Of Fly Ash And Metakaolin On High Performance Concrete	Mrs.O.R Kavitha, Ms.G Shyamala, Mr.G Iyappan, Mr.K Rajesh Kumar	International Journal of Scientific and Technology Research	2020	0	SNS College of Technology	Nill
An Investigation On Eco-Friendly Concrete Using Industrial Waste As A Binding Agent	Mr.M. Muthuraman, Mrs.R. Anuradha And Mr.S.Muthupackiaraj	Em International Journal of Ecology, Environment and Conservation	2019	0	SNS College of Technology	Nill
Experimental Study On Performance Of Hardened Concrete Using Nano Materials	Mr.K Thangapandi, MRs.R Anuradha, Ms.N Archana, Mr.P Muthuraman, Mr.O Awoyera Paul, Mr.R Gobinath	Ksce Journal of Civil Engineering	2020	0	SNS College of Technology	Nill
Experiment on Acoustics and Vibration Damping Properties of Natural Fibre Reinforced Composites	Mr. D. Rajesh Kumar	International Journal of Recent Technology and Engineering	2019	1	SNS College of Technology	1
Multi objective	Dr. K Senthilkumar	Journal of	2020	1	SNS	1

optimization of Cold Crack Susceptibility of High Strength Low Alloy Steel 950A Using Grey Relational Analysis		Thermoplastic Composite Material			College of Technology	
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#### 3.4.6 - 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
Mouse Movement Pattern Based Analysis of Customer Behavior (CBA-MMP) using Cloud Data Analytics	Mrs.R.Sabitha, Dr.S.Karthik	Wireless Personal Communications	2019	12	2	SNS College of Technology
An Enhanced Soft Computing -Based Formulation For Secure Data Aggregation and Efficient Data Processing In Large Scale Wireless Networks	Mrs.R.Sabitha, Dr.S.Karthik	Soft Computing	2019	12	1	SNS College of Technology
Cluster-Based Systematic Data Aggregation Model (CSDAM) For Real Time Data Processing in Large Scale WSN	Mrs.R.Sabitha, Dr.S.Karthik	Wireless Personal Communications	2019	12	1	SNS College of Technology
Colour and orientation of Pixel Based Video Retrieval using IHBM Similarity Measure	Mr.R Saravana Ram, Mr.C.B.Sivaparthipan, Mr.Balaanand Muthu	Multimedia Tools and Applications	2019	8	Nil	SNS College of Technology
Designing Statistical	Mr.C.B.Sivaparthipan,	Multimedia Tools	2019	8	8	SNS

Assessment Health Care Information System For Diabetics Analysis using Big Data	Mr.Balaanand Muthu	and Applications				College of Technology
An Enhanced Graph Based Semi-Supervised Learning Algorithm to Detect Fake users on Twitter	Mr.Balaanand Muthu, Mr.C.B.Sivaparthipan	The Journal of Supercomputing	2019	8	Nill	SNS College of Technology
Innovative and Efficient Method of Robotics for helping the Parkinsons Disease Patient using IoT in Big Data Analytics	Mr.C.B.Sivaparthipan, Mr.Balaanand Muthu	Transaction on Emerging Telecommunication Technologies	2019	8	9	SNS College of Technology
Iot Based Wearable Sensor For Diseases Prediction and Symptom Analysis in Healthcare Sector	Mr.Balaanand Muthu, Mr.C.B.Sivaparthipan	Springer Peer-To-Peer Networking and Applications	2019	8	22	SNS College of Technology
Multi objective optimization of Cold Crack Susceptibility of High Strength Low Alloy Steel 950A Using Grey Relational Analysis	Dr. K Senthilkumar	Materials Today: Proceedings	2020	2	1	SNS College of Technology
Experiment on Acoustics and Vibration Damping Properties of Natural Fibre Reinforced Composites	Mr. D. Rajesh Kumar	International Journal of Recent Technology and Engineering	2019	1	Nill	SNS College of Technology

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### 3.4.7 - Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	4	104	9	2
Presented papers	89	5	Nill	Nill

<b>Resource persons</b>	<b>3</b>	<b>2</b>	<b>Nil</b>	<b>2</b>
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### 3.5 - Consultancy

#### 3.5.1 - Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Aeronautical Engineering	Design and Analysis of worm gear using ANSYS software	M.M. Gears Private Limited	50000
Agriculture Engineering	Design of Irrigation Equipment	Devi Chand Machine Tools	10000
Agriculture Engineering	Design of Agricultural Processing Machinery	Melvin Engineers	25000
Agriculture Engineering	Design of Irrigation Equipment	Devi Chand Machine Tools	10000
Agriculture Engineering	Design of Agricultural Processing Machinery	Melvin Engineers	10000
Automobile Engineering	Driving Class for Students	M/s. Aadhi Maruti Driving School Pvt Ltd, CBE	62500
Biomedical Engineering	Battery Refurbishment	Renovate Technologies	50000
Civil Engineering	Surveying	Associated Autotex Ancillaries Pvt. Ltd, CBE	1500
Civil Engineering	Surveying	Vatawaran Constructions ,CBE	750
Civil Engineering	Surveying	TR Associates	50000

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#### 3.5.2 - Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue	Number
-------------------------------------	------------------------	---------------------------	---------	--------

			generated (amount in rupees)	of trainees
Mr.M.Jagadesh Mr.A.Karthikeyan Electronics and Communication Engineering	IoT and Its Real Time Applications	Beta Technologies, Coimbatore	50000	2
Mr.R.Vijayakumar Dr.R.Karthick Electrical and Electronics Engineering	Introduction of IoT for Power System Applications	Delving Research and Development Pvt.Ltd, Coimbatore	30000	2
Mrs.S.Jayashree Mr.R.Satheeshkumar Electrical and Electronics Engineering	Embedded System	Nanotronics Scientific Solutions, Coimbatore	15000	2
Dr.R.Senthilkumar Mr.S.Bharath Electrical and Electronics Engineering	Battery Management System	Emcog Solutions, Chennai	15000	2
Mrs.S.Poonkodi Computer Science and Engineering	Digital Marketing	Amirthavarshini Tailoring	5000	10
Dr.K.Sangeetha Computer Science and Engineering	Data Analysis using Statistical Tools	Thulliam Info Tech Pvt Ltd	4000	12
Mrs.S.Sangeetha Computer Science and Engineering	MS Office Package	Valayapatti Govt.Hr.Sec School	2000	12
Mrs.S.Sangeetha Computer Science and Engineering	IoT Projects using Design Thinking	Valayapatti Govt.Hr.Sec School	3000	35
Dr.S.Sathishkumar M.Karthick Computer Science and Engineering	Online Application	Gateway Software Solutions, Coimbatore	10000	25
S.R.Janani Dr.B.Vinodhini Computer Science and Engineering	IOT for Home Automation	K G Matric Hr Sec School	10000	55

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### 3.6 - Extension Activities

3.6.1 - 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
Awareness Program on "Helmet Wearing"	CNC Automation Engineering Pvt Ltd	4	30
Road Safety Awareness Programme	Road Safety Club in Collaboration with Tamil Nadu Police Department, Saravanampatti	2	54
Plastic Free Maruthamali - NSS	Ver Organization and Aalayam Foundation	22	130
NCC Inauguration - Guard of Honour	SNS Academy	1	1
Tobacco Free Coimbatore	Coimbatore Corporation	1	10
Seed Ball Making Events	Computer Science and Engineering in association with Indian Oil Corporation	20	60
Rally on "Water Scarcity Awareness"	Computer Science and Engineering, SNS College of Technology	3	150
Two Wheeler Helmet and Car Seat Belt Awareness Campaign	Computer Science and Engineering in association with Indian Oil Corporation	7	60
No Plastic Awareness Campaign	Computer Science and Engineering, SNS College of Technology	6	50
Cancer Awareness Programme	Computer Science and Engineering in association with Savidha Multi Speciality Hospital	3	250

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### 3.6.2 - 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
----------------------	-------------------	-----------------	------------------------------



Analytical thinking - NCC	Gold Medal / Overall Champion of The Event	Coimbatore Group Commander	21
Republic Day Parade - NCC	Participation in Republic Day Parade	Government of India	1
SNIC Port Blair - NCC	NCC Award	Government of India	1
National Parade - NCC	CATC cum RDC TRG	4 Tamilnadu Battalion	1
Battalian Warfare - NCC	First Place	Tamilnadu Girls BN NCC	1
Master of Ceremonies - NCC	Master of Ceremonies Award	4 Tamilnadu Battalion	1
Blood Donation - SRI	Blood Donor Award	HDFC Healthcare Support, Coimbatore	1
All India Thal Sainik Camp - NCC	TSC Delhi	DG NCC ,New Delhi	1
Book Donation Campaign - NSS	Book Donor Award	Ullathi Govt. Middle School, Nilgiris.	87
Social Worker - NSS	Best Social Worker (Krishnagiri District)	Shri Anandhakalpa Foundation and Chakrapathi Sijavi Achievers Award 2020	1

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3.6.3 - 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 activites	Number of students participated in such activites
Awareness Programme	CNC Automation Engineering Pvt Ltd	Helmet Wearing Safety	4	30
Awareness Programme	Coimbatore Corporation	Tobacco Free Coimbatore	1	10

Awareness Programme	Computer Science and Engineering in association with Indian Oil Corporation	Seed Ball Making Events	20	60
Awareness Programme	Computer Science and Engineering in association with Savidha Multi Speciality Hospital	Cancer Awareness Programme	3	250
Social Responsibility Initiatives	NSS, SNS College of Technology	Corona Awareness Pledge- RRC	2	2500
Awareness Programme	Anti Drug NIBCID Coimbatore	Awareness Programme on Anti Drug	2	30
Awareness Programme	Isha Coimbatore	Cauvery Calling	2	20
Awareness Programme	Eye Foundation Coimbatore	Free Eye Camp	1	50
Awareness Programme	Sankara Eye Hospital, Coimbatore	World Disability Day	2	30
Awareness Programme	Native Medicare Charitable Trust, Coimbatore	AIDS / HIV Awareness	2	100

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### 3.7 - Collaborations

3.7.1 - Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Reviewer : Journal of Mechanical Engineering Science	Dr.S.Karthik	Goodwill	365
Reviewer : Journal of Institution of Engineering (Springer)	Dr.S.Karthik	Goodwill	365
Reviewer : Journal of Informatics In Medicine Unlocked	Dr.S.Karthik	Goodwill	365

Reviewer : Journal of Parallel Programming	Dr.S.Karthik	Goodwill	365
Reviewer : Journal of Parallel Programming	Mr.S.Alfred Daniel	Goodwill	365
Reviewer : Vehicular Communications	Mr.S.Alfred Daniel	Goodwill	365
Reviewer : Multimedia Tools and Applications	Mr.S.Alfred Daniel	Goodwill	365
Reviewer : PLOS ONE	Dr.K.Sangeetha	Goodwill	365
Reviewer : Journal of Testing and Evaluation	Dr.K.Sangeetha	Goodwill	365
Editorial Board Member: Scirea Journal of Computer	Dr.K.Sangeetha	Goodwill	365

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3.7.2 - 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 details	Duration From	Duration To	Participant
Internship	Irrigation	Cenmark Irrigation	27/05/2019	29/05/2019	Krishnaraj A
Internship	Dairy Milk Processing	Aavin	06/03/2019	06/05/2019	Dharani S
Internship	Food Processing	Nilgiri Fresh Produce Co	15/05/2019	29/05/2019	Pragadeeshwaran K
Internship	Tractor Training	Tafe	10/06/2019	15/06/2019	Nithishkumar A
Internship	Honey Manufacture	State Bee Keeping Extension Centre	20/05/2019	24/05/2019	Ajeesh Madhavan S
Internship	Sugar Processing	Eid Parry (India) Limited	17/06/2019	21/06/2019	Vignesh R
Internship	Food Proceesing	Gateway, City Tower, Coimbatore	19/12/2019	24/12/2019	Anusanth Surya R
Internship	Food	Sri Samundeeswari Food Products Pvt	09/12/2019	13/12/2019	Jenifer M

	<b>Proceesing</b>	<b>Limited, Vellore</b>			
<b>Internship</b>	<b>Sugar Processing</b>	<b>Sakthi Sugars Limited, Aapakudai</b>	<b>17/12/2019</b>	<b>21/12/2019</b>	<b>Mohammed Ijaz S</b>
<b>Internship</b>	<b>Organic Farming</b>	<b>Vanagam, Kadavur</b>	<b>03/12/2019</b>	<b>10/12/2019</b>	<b>Subiksha M</b>

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3.7.3 - MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

<b>Organisation</b>	<b>Date of MoU signed</b>	<b>Purpose/Activities</b>	<b>Number of students/teachers participated under MoUs</b>
<b>Agromet, Coimbatore</b>	<b>18/07/2019</b>	<b>Internship</b>	<b>2</b>
<b>AMIST University, Malaysia</b>	<b>10/09/2019</b>	<b>Faculty and Student Exchange</b>	<b>41</b>
<b>Build My Project Nehate Niwas, Mumbai</b>	<b>22/08/2019</b>	<b>Internship/Project</b>	<b>42</b>
<b>Builders Association of India</b>	<b>24/08/2019</b>	<b>Internship, Placement, Field Project</b>	<b>12</b>
<b>Carevium, Inc, USA</b>	<b>04/10/2019</b>	<b>Internship</b>	<b>3</b>
<b>Celestial Technology, Coimbatore</b>	<b>21/02/2020</b>	<b>Workshop</b>	<b>2</b>
<b>Cihan University, Duhok</b>	<b>16/08/2019</b>	<b>Internship and Placement</b>	<b>8</b>
<b>Darshan Edm Tools, Coimbatore</b>	<b>17/08/2019</b>	<b>Internship</b>	<b>2</b>
<b>Edex Academy Ltd, New Zealand</b>	<b>20/09/2019</b>	<b>Internship / Higher Studies</b>	<b>12</b>
<b>G S Automation, Coimbatore</b>	<b>17/07/2019</b>	<b>Competition Preparation</b>	<b>2</b>

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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
1065	1072

## 4.1.2 - Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Seminar Halls	Newly Added
Laboratories	Newly Added
Class rooms	Existing
Campus Area	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Newly Added
Video Centre	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Others	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 patially)	Version	Year of automation
LIPS I NET 5.0	Fully	5.0.100	2007

## 4.2.2 - Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	20530	5714905	7	3113	20537	5718018
Reference Books	46054	12981902	10	5199	46064	12987101

<b>Journals</b>	<b>158</b>	<b>457797</b>	<b>124</b>	<b>338535</b>	<b>282</b>	<b>796332</b>
<b>e-Journals</b>	<b>1513</b>	<b>555892</b>	<b>1513</b>	<b>555166</b>	<b>3026</b>	<b>1111058</b>
<b>Digital Database</b>	<b>4</b>	<b>Nil1</b>	<b>2</b>	<b>Nil1</b>	<b>6</b>	<b>Nil1</b>
<b>CD &amp; Video</b>	<b>4756</b>	<b>58000</b>	<b>65</b>	<b>4200</b>	<b>4821</b>	<b>62200</b>
<b>Others (specify)</b>	<b>1</b>	<b>15930</b>	<b>1</b>	<b>15930</b>	<b>2</b>	<b>31860</b>

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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
A.NAGAMANI	Aircraft Structures - I	snsourseware	23/01/2020
Dr.K.Sangeetha	Case Tools	Camtesia	03/08/2019
Ms.J.Vasuki	Non Linear Datastructure	youtube	16/04/2020
Ms.T.Shanmugapriya	XML	Youtube (LMS)	26/03/2020
Dr.K.Kalai Selvi	MHRD Virtual Lab Simulation Load Characteristics Of Dc Shunt Generators 1	MHRD Virtual Lab	09/02/2020
Mr.S.Vigneshwaran	Voltage shunt feedback amplifier	Youtube	08/04/2020
Mr.S.Sreejith	Concept of Vector Potential, Modification for Time Varying Retarded case	snsourseware	28/01/2020
Mr.C.Senthilkumar	ATM System using Object Oriented System Design	Youtube (LMS)	09/04/2020
Mr.P.Janagarathinam	Fluid Power Control	SNS Courseware	02/09/2019

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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	1470	32	750	4	32	15	15	165	0
Added	50	0	0	0	0	0	0	0	0
Total	1520	32	750	4	32	15	15	165	0

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

165 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
High - end Computer	<a href="https://youtu.be/7wbP-K3BIEk">https://youtu.be/7wbP-K3BIEk</a>
Video Camera	<a href="https://youtu.be/7wbP-K3BIEk">https://youtu.be/7wbP-K3BIEk</a>
Audio system	<a href="https://youtu.be/7wbP-K3BIEk">https://youtu.be/7wbP-K3BIEk</a>
LCD Projector	<a href="https://youtu.be/7wbP-K3BIEk">https://youtu.be/7wbP-K3BIEk</a>

#### 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
100	137.15	370	383.78

##### 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)

Procedures and policies for maintaining and utilizing physical, academic and support facilities  
**Policy/Procedure for Maintenance:** The college under the headship of the Principal has dedicated sections and man power to administer and maintain physical facilities in the institution. As a policy, any equipment purchased should be entered in the respective stock register which is maintained by different incharges and audited periodically. Class Rooms and Laboratories All the equipment and machinery of the laboratories are periodically maintained by the lab technicians. If the equipment/machinery is to be serviced during the warranty period, the supplier of the equipment/machinery will be intimated about the repair and it will be serviced either in-house or in the supplier premises based on the nature of defect. After warranty period, the technical staff service the equipment/machinery to the extent possible otherwise it will be informed to faculty / HoD, who arranges to get them repaired. Regular calibration of equipments also done by technical



experts. Every class room is enabled with ICT facilities, department supporting staff is assigned to take care of the maintenance. Computers and Accessories Due to the large number of computers and networking, a dedicated Common Computer Maintenance Cell is functioning under the headship of CSE Dean/HoD. Problems related to this is reported in a note by the concerned departments and issues are quickly resolved. Incase of issues which cannot be resolved is sent for service to external vendor after getting permission from Principal and Management. The cell maintain the computers and other associated accessories periodically and update the OS (operating system) whenever it is demanded by the department. Library College Library Advisory Committee takes care of planning, adequate availability and maintenance of the library. Feedback from the users and suggestions from the committee members are given due importance and actions are initiated immediately. At the end of every year Journal Back Volumes are bounded and maintained in a separate rack. Periodic maintenance of Books is done, damaged books are bound to avoid further damage every year. Sports The institute provides separate and distinguished sports infrastructure, amenities and actuaries under the Department of Physical Education administered by a Physical Education Director. The gym and other sports equipment are serviced on the need base in the supervision of physical director. The play grounds are well maintained by exclusive marker and kept ready for use. Other Amenities Fire extinguisher maintenance is outsourced as per the date of expiry. The water doctors are maintained by Supervisors and serviced regularly by external vendors. Electrical Maintenance Power supply, Generators, UPS, Solar Plant and Electrical Repairs are looked after by the electrical engineer. Telephone and intercoms are maintained by AMC. Cleanliness and House Keeping The cleanliness of all laboratories, sports fields, classrooms and departments are organized and routinely ensured by the maintenance department under the management of the Principal through estate office and supervisors to ensure all electrical, mechanical and plumbing problems which are addressed round the clock and maintained diligently. Students and other members are clearly aware of the policies

<https://main.snsct.org/wp-content/uploads/2021/08/4.4-Policy-and-procedures.pdf>

## 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	Single Parent and Concession for Economically Weaker Students	333	4008300
Financial Support from Other Sources			



<b>a) National</b>	<b>Government</b>	<b>1194</b>	<b>38696445</b>
<b>b) International</b>	<b>-</b>	<b>Nil</b>	<b>0</b>

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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
Soft skill development	03/10/2019	117	Aram Foundation Charitable Trust
Soft skill development	22/08/2019	50	Global CAD Technologies, Salem
Soft skill development	23/07/2019	54	Mr.Racheal Caroline, Free lancer
Quantitative Aptitude and Verbal Reasoning	11/04/2020	38	Six pharse
Soft skill development	26/06/2020	35	US Software and Engineering Technologies, Chennai
International Yoga Day	21/06/2019	149	In House Training (CSE)
Autocad Skill Enchancement program	16/07/2019	30	Autodesk CAD CENTER, Palakkad, Kerala.
Entrepreneurship	29/01/2020	67	Mr.A.P.Sasikumar, Founder Proprietor - Agnicart, Coimbatore.
Higher education awarness in Canada	29/01/2020	68	Mr.Nitish Krishnaa (2014 Batch) , University of windsor, Ontario ,Canada.,

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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
2019	Coaching Class (Banking, TNPSC,	192	1027	31	876

**GATE) , Crash Course on  
Aptitude and Soft Skills**

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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
1	1	5

## 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
Jaro, NJ Investment Spring Role, Mr. Cooper Berger Paints, DOUBTNUT, Abyeti Technologies, Pin Click, Kaar Technologies, Accenture, Blue Eye Solutions, Coimbatore, AMPHISOFT TECHNOLOGIES, SUM ENGINEERING, CHENNAI, Payoda TALENTIO, Vuram, Blackboard lea	624	546	5th GENERATION TECHNOLOGIES INDIA (P) LTD Accenture AEE BEE Aegis Limited Amazon Ameex AOSTA Software Technologies India Limited ARCUS Ashwin constructions, cbe Aspire Systems (India) Pvt. Ltd Atos Syntel AVASOFT Benchmark constructions Bharathi	534	331

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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	Department graduated from	Name of institution joined	Name of programme admitted to

2019	1	B.E.	Civil Engineering	PSG College of Technology, CBE.	M.E. Structural Engineering
2019	1	B.E.	Civil Engineering	PSG College of Technology, CBE.	M. E Virtual prototyping and digital Manufacturing
2019	1	B.E.	Civil Engineering	Annamalai University, Chidambaram	M.E. Structural Engineering
2019	1	B.E.	Civil Engineering	College of Engineering, Guindy, Anna University	M.E. Construction Engineering and Management
2019	1	B.E.	Biomedical Engineering	Amrita Vishwa Vidyapeetham (Coimbatore Campus) Amrita nagar Coimbatore - 641 112	M. Tech. Embedded Systems
2019	1	B.E.	Automobile	GRD College of Science	Master of International Business
2019	1	B.E.	Agriculture Engineering	Annamalai University, Chidamparam	M.E. in Food Processing
2019	1	B.E.	Agriculture Engineering	Ghabdhigram Rural university	M.Tech. in Renewable Energy
2019	1	B.E.	Agriculture Engineering	Indian Institute of Food processing technology, Thanjavur	M.Tech. in Food Processing
2019	1	B.E.	Aeronautical	Brunel University London Kingston Ln, London, Uxbridge UB8 3PH, United Kingdom	Ms.Advance Manufacturing System

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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
<b>GATE</b>	1
<b>GRE</b>	2

Any Other

28

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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
Badminton	National	1
Chess (Women)	Zonal	6
Badminton (Women)	Zonal	10
Badminton (men)	Zonal	4
Tennis (Men)	Zonal	4
Handball (Men)	Zonal	12
Ball Badminton (Men)	Zonal	10
Basket ball (Men)	Zonal	10
Ball Badminton (Women)	Zonal	4
Kabbadi (Men)	Zonal	12

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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
2019	Gold medal	International	1	Nill	19BA863	Ms .T.Mayuri
2019	Gold medal	National	1	Nill	17AE016	Ms .Preethi
2019	Gold Medal	National	Nill	1	19BA863	Ms .T.Mayuri
2019	Gold Medal	National	1	Nill	17CE045	K .RICHARDSON
2019	Gold Medal	National	1	Nill	17AE036	Ms .J.Preethi

2019	Gold Medal	National	1	Nill	19BA863	Ms .T.Mayuri
2019	Silver Medal	National	1	Nill	17AE036	Ms .J.Preethi

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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)

College creates a platform for the active participation of the students in various academic, Non-Academic administrative bodies including other activities. This empowers the students in gaining leadership qualities, rules, regulations, execution skills, also improves Social and Emotional Skills. Youth Parliament and Department Association are the two major student councils functioning in the campus in addition to professional body chapters. The constitution of the department association : The Head as mentor, one faculty advisor who guides in organizing the event, one faculty advisor who guides in managing the funds, Secretary, Joint Secretary, Treasurer, Executive Members constitute the department association . The major activities include arranging guest lectures, workshops, etc and organising events by inviting participants from regional, state and nationwide. Student Association renders voluntary services during the various college level programmes and activities. They show active participation in maintaining the serenity and discipline of the college campus. They also play an important role in governing of student's hostels. The students are involved as members in the following academic and administrative bodies.

1. Class committee
- 2.IQAC
3. Department Associations
- 4.Hostel Mess Committee
5. Anti-Ragging Committee
6. Entrepreneurship Development Cell
- 7.Training and Placement Cell
- 8.ISTE, IEEE, SAE
- IE(I) Students Chapters
9. Club Activities - Youth parliament, MUN, AOD, etc.,
10. Grievance Redressal cell
- 11.Library advisory committee
12. Sports Committee.

The students are encouraged to represent their points and the same will be considered suitably. Each department has Class Committee council which includes Student members. The student members bring forward the views and suggestions of the entire class with respect to the faculty, subjects, syllabus and other things related to the class. The one who has more integrity with other students are nominated as class representatives, for all the sections from I Year to Final Year. The Student Council helps students to share ideas, interests, and concerns with mentors, Head and Principal. The funding for various activities of the internal college bodies is provided by the College Management.

### 5.4 - Alumni Engagement

#### 5.4.1 - Whether the institution has registered Alumni Association?

Yes

Yes, the College has its own registered Alumni Association. SNS College of Technology has a registered Alumni Association named SNS College of Technology Alumni Association which is registered with the Registrar Tamil nadu Societies under its Registration Act, 1975. 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 college has initiated a focused effort to strengthen the alumni network. Presently, there are 9643 alumni. 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. We urge alumni from other disciplines to join the network and continue to feel a sense of belonging to the SNS Family and reap the benefits thereof. We are keen on strengthening the alumni network through the following alumni activities:-

- Facilitate visit to the campus
- Guest Lecturer / Visiting Faculty
- Campus Recruiter
- Explore industry-academia collaboration avenues like research, projects, consultancy, kits, etc.
- Mentor to juniors regarding their careers
- Nominate outstanding alumnus by tracing ones personal growth and success story.
- Post job openings of ones organisation for 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

#### 5.4.2 - No. of registered Alumni:

8803

#### 5.4.3 - Alumni contribution during the year (in Rupees) :

612000

#### 5.4.4 - Meetings/activities organized by Alumni Association :

Fourth alumni Decade Meet was conducted on 22.12.2019. We have Organized 65 Alumni Guest lecture on various recent topics, 10 Seminars, 12 Motivational Talks, Personality Development coaching, Career Guidance and 20 Workshop. Also we have included the alumnus for BoS. Our alumni are helped to conduct Mock Interview for CTS placement drive. Few of our students are entrepreneur they will give the guidance to start the business. Our alumni have actively engaged the session for the first year bridge course.

### 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)**

The college always promotes a culture of participative management to ensure transparency in both academic and administration. Principal is the head for all academic and administrative functions of the college. He takes decisions after deliberations and discussions with Deans, Heads of the Departments, Placement Training heads, Controller of Examinations and implements the decisions after consulting with the Governing body for the progressiveness of the college. The Heads of the Departments conduct periodic meetings with the faculty members and their suggestions are carried to the Head's meeting for discussion and approval which ensures that all faculty members take part in the academic and administrative matters of the College. Members of the management also take part in the academic committee meetings to invite suggestions from various heads. The department level administrations are decentralized and allow faculty members to take decisions on the day-to-day needs. These decisions are guided by the well-defined college policies developed by the Management and the Principal. Faculty members are also members in the Governing Council, Academic Council, Board of studies, IQAC, Anti ragging committee, Grievance Redressal Committee, Anti-Ragging Squad, etc which allow their participation in decision-making at the higher levels. Recommendations of the Heads of the Department Heads are considered with utmost priority while recruiting faculty, offering promotion and performance appraisal. The Administrative Officer is the head for finance administration. The Manager, Office Superintendent and section officers play the role of executive head to take care of the matters related to administration. They consult the Principal who in turn, puts the matter before the Management while making new decisions related to the administrative operations of the college. Students are encouraged to participate in the college management activities through their membership in IQAC, Youth Parliament, class committee, hostel committee, anti-ragging committee, department associations, Magazine Committee, professional society chapters, Sport Committee etc. The Principal and Management carefully check and balance majority of the decisions arrived through various committees. The Management suggests various improvements and solicits suggestions from the stakeholders for the college regularly.

**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
Admission of Students	<ul style="list-style-type: none"> <li>The College ensures transparency in the admission process by strictly adhering to the guidelines issued by the AICTE, Govt. of Tamil Nadu, Directorate of Technical</li> </ul>



	Education and Anna University. • In B.E./B.Tech., 65 of seats are admitted through Counseling by Single Window System conducted by Anna University Chennai. Remaining 35 seats are admitted through Management Quota. • Admission for Management Quota is done as per the procedure given by the Consortium of Self Financing Professional, Arts Science Colleges in Tamil Nadu.
Industry Interaction / Collaboration	<ul style="list-style-type: none"> <li>• Industry - Institute Partnership Cell [IIPC] exists.</li> <li>• Strong connect with the industries for continuous learning.</li> <li>• Industry experts are invited to address the students on recent trends</li> <li>• Industry tie-up will help in acquiring Internship, Project Work, Industrial Visits, Research and Consultancy assignments</li> <li>• Student and Faculty exchange programs with Universities in abroad and Industries</li> </ul>
Human Resource Management	<ul style="list-style-type: none"> <li>• • Human Resource department is responsible for selection, recruitment, training and performance appraisal of staff members.</li> <li>• A well-structured method of faculty recruitment process viz: Written Test, GD, Class Room Observation and HR Round exist.</li> <li>• Self-appraisal is given highest priority with valid supporting documents.</li> <li>• Standard norms for salary fixation. Incentive scheme for the outstanding performers.</li> <li>• Staff members are encouraged to participate in training programme to upgrade their knowledge and skills</li> <li>• Work is distributed according to their expertise.</li> </ul>
Library, ICT and Physical Infrastructure / Instrumentation	<ul style="list-style-type: none"> <li>• The centralized library provides learning resources to the student and faculty community both in print and digital mode.</li> <li>• Book bank is available to facilitate the students' book needs during his/ her learning tenure.</li> <li>• Library Advisory Committee</li> <li>• ICT infrastructure such as High end system with UPS back up, Printers, LCD Projectors, Internet Switches, AV Facilities, etc are available</li> <li>• Enhanced Digital library with Audio Visual room, NPTEL and E- learning resources</li> <li>• Wi-Fi enabled campus with internet speed of 100Mbps</li> <li>• All class rooms are ICT enabled</li> <li>• State of the art laboratories</li> </ul>
Research and Development	<ul style="list-style-type: none"> <li>• A separate Research and Development cell and Centre for Creativity.</li> <li>• Seminars, FDP and Conferences are organized for both faculty members and students to obtain research projects, grants from funding agencies.</li> <li>• Provides seed money of Rs 1 lakh for faculty members and students per each department to promote research.</li> <li>• The Institution offers 50 of the registration fee with ON Duty for faculty who are presenting the papers in national International conferences.</li> <li>• Rs. 1500 1000 cash awards for paper presented in peer reviewed International and National Journals.</li> <li>• Sharing of 40 of the consulting revenue to the consultancy team.</li> <li>• Encouraging faculty to enhance their qualification [M.Phil/ Ph.D., programme]</li> <li>• Sharing of consultancy revenue to faculty members/consultants</li> </ul>



Examination and Evaluation	<ul style="list-style-type: none"> <li>• Academic audit by both internal and external experts</li> <li>• Bloom taxonomy with quality index in Question paper setting</li> <li>• The components of internal assessment are written test and Co-curricular activities such as Assignment / Presentation / Project / Innovative work /Attending conference, workshop Seminar / Online Courses/ Case Study, etc.</li> <li>• There is an external scrutiny of question papers for the end semester examinations.</li> <li>• Cross verification of valued answer scripts</li> <li>• Evaluation process is transparent. Introduction of online evaluation system</li> <li>• End semester examinations are evaluated in a centralized manner</li> </ul>
Teaching and Learning	<ul style="list-style-type: none"> <li>• Centre for Learning and Teaching to enhance the learning experience in the campus.</li> <li>• SNS Courseware (e-learning facility)</li> <li>• Innovative teaching pedagogies for effective teaching learning process.</li> <li>• Structured questionnaire system for feedback on teaching/learning.</li> <li>• Awards Scholarships for academic toppers and Motivation to excel in academic.</li> <li>• Additional learning through industries, professional bodies, alumni</li> <li>• Attending Summer research fellowship programmes at IITs, research laboratories</li> <li>• Faculty visits to industries, research labs, and universities in India abroad.</li> <li>• Support faculty in developing their teaching other skills</li> <li>• Training and guidance on Effective teaching approaches, Efficient utilization of resources, Various educational tools and technologies and Various assessment methodologies</li> <li>• Workshops to enhance Design thinking based delivery</li> </ul>
Curriculum Development	<ul style="list-style-type: none"> <li>• Curriculum Development</li> <li>• Implemented Design Thinking based Curriculum</li> <li>• Adopts Outcome Based Education(OBE) system</li> <li>• Choice Based Credit System(CBCS)</li> <li>• Feedback from stake-holders for improvements</li> <li>• Twice in a year, Curriculum Development Committee conduct meeting and reviews the curriculum and syllabus before presenting to Board of Studies.</li> <li>• Value added / Modular courses to enhance the capabilities of learning.</li> <li>• Fast track system to undertake fulltime internship or industrial projects</li> <li>• One-credit courses based on the contemporary industrial practices and needs.</li> <li>• Online courses through MOOC/NPTEL</li> <li>• Provision for earning Extra-credits by the aspiring students</li> <li>• Embedded Soft Skills training [CDP] in curriculum for employability</li> <li>• DT based Curriculum framework</li> </ul>

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

E-governance area	Details
Planning and Development	<ul style="list-style-type: none"> <li>o o All planning and execution are uploaded and followed through online [Sns.Bitrix - Portal]</li> <li>o All activities shall be planned in advance and uploaded in the portal with deadlines</li> <li>o Appropriate subtasks, deadlines, checklists help to monitor the status of each activity.</li> <li>o Tasks can be assigned by higher officials or the faculty</li> </ul>

	incharges which could be tracked. o Self tasks can also be listed (To do List) in the portal and would help to complete all activities in time.
Administration	o Monitor and Control and view the institutional activities such as Admission Details, Students information, Staff Details, Students Attendance, Bio metric for staff attendance, Fees collection, Academic progress, Inventory Status, outstanding details, Transportation, Payroll, Accounts, Exams and Results details, can be viewed through the software. Automated and quick report generation of all academic process such as Attendance, Internal marks, End Semester results etc. o Approvals from Management can be got through online on emergency cases.
Finance and Accounts	o Online Fee collection, Receipt generation and processing of consolidated statements are carried out through our Management Information System. o Payroll management , E Generation of Tax payments - Form 16, Maintenance of employee provident fund. E cash and cheque vouchers, Effective fund disbursement through internet banking services NEFT, maintenance of fund mobilization and utilization records and retrieval of data. o Salary slip can be downloaded from ERP o Faculty leave availability status can be seen via online
Student Admission and Support	o Students can get the institute details via E-Brochure o Tuition fee can be paid through online o Admission details are interconnected with internal ERP system o Admission work consists of online enquiry, online application download, Admission process, Student database of enquiry, Admission registration into required departments are done through the college Management Information System. o Student access for viewing their own attendance, internal marks and giving Faculty feedback. Short Messaging Services are provided to communicate the academic performance of the students.
Examination	o Students are given with individual user name and password to access their attendance percentage and internal marks / external grades o Education verification of students' certificates via exclusive portal o Software supports Time Table, Syllabus upload, Syllabus regulation and verification, subject details, Lesson Plan, uploading of online questions, Question paper collections, communication of Exam fee, Generation of exam application, Exam time table, digital numbering, galley preparation, Conducting of online examination list of absentees, consolidated statement of absentees, Mark entry of continuous internal assessment, uploading of Comprehensive Mark entry, preparation of Mark sheet.

### 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
2019	Mr.G.Tharanitharan	Business Across Borders - A country Study(48Hrs) course	AIMST UNIVERSITY Malaysia	50000
2020	Mr.R.Sambasivam	Smart electing for connected community	IIT (BHU)	3000
2019	Dr.R.Ranjith	NBA Process	NITTTR, Chennai	2000
2019	Mr.E.Mohanraj	Parametric and Non Parametric Analysis using SPSS	PSG Institute of Management	2000
2019	Ms.K.Monisha	Business Analytics Tools and Techniques	Sri Krishna College of Engineering and Technology	4000
2019	Dr.V.Prabakaran	R Programming	Aakkam Industrial Training and Research Institute	3000
2019	T.Shanmugapriya	Train the Trainer	Automation Anywhere Software Pvt. Ltd., Bangalore	2000
2019	K.Ranjani	Short term course on "NBA Accreditation of Engineering Programs"	NITTTR, Chandigarh	3000
2019	S.Prince Samuel	Seminar on "Relationship Management for effective Industrial Relations"	UTL Technologies	2000
2020	Mrs.S,Jayashree	IEEE - International Conference on Computer Communication and Informatics (ICCCI-2020) , at Sri Shakthi Institute of Engineering and Technology	Sri Shakthi Institute of Engineering and Technology , Coimbatore	3250

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6.3.2 - Number of professional development / administrative training programmes organized by the Colleges 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	International Seminar on "Data Science and Block Chain Technology"	Nil	26/07/2019	26/07/2019	29	Nil
2019	Workshop on "Machine Learning"	Nil	14/10/2019	14/10/2019	29	Nil
2020	IOT for Electrical Engineering	Nil	25/02/2020	26/02/2020	15	Nil
2020	FDP on Deep Learning with Neural Algorithms	Nil	23/01/2020	24/01/2020	20	Nil
2020	Virtual workshop on Mendeley reference manager	Nil	03/04/2020	03/04/2020	50	Nil
2020	Nil	Aircraft Engine Maintenance and Repair	06/01/2020	11/01/2020	Nil	5
2019	Nil	Workshop on "System Service" for Non Teaching Staff	19/07/2019	19/07/2019	Nil	13
2020	Nil	Hands on Training on Installing RPA Software	25/07/2020	25/07/2020	Nil	7
2019	Nil	Workshop on Team Building	16/12/2019	18/12/2019	Nil	25
2019	Nil	One day work shop on stress management at working environment	21/12/2019	21/12/2019	Nil	30

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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	From Date	To date	Duration
---	-----------	-----------	---------	----------

	teachers who attended			
Six -Days Online FDP on Outcome Based Learning Approach in Higher Education	5	24/04/2020	30/04/2020	7
Deep Learning and Computational intelligence in bio informatics	11	18/11/2019	01/12/2019	14
Artificial Intelligence and Machine Learning	7	10/06/2019	14/06/2019	5
5 day webinar on e-content development in education sector	3	20/04/2020	24/04/2020	5
Three days webinar on "New Product Development Process"	3	13/05/2020	15/05/2020	3
Artificial Intelligence Techniques in Data Analytics and Information Retrieval	3	10/04/2020	14/04/2020	5
Two days International seminar on "Art of Writing Scientific Articles, Funding Proposal and Patent"	2	26/05/2020	27/05/2020	2
MT6702 Robotics and Machine Vision system	3	20/05/2019	25/05/2019	6
Innovation and Entrepreneurship Development Programme	2	16/07/2019	18/07/2019	3
Internet of Things	6	16/12/2019	20/12/2019	5

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
22	22	6	6

#### 6.3.5 - Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>• Certificates of appreciation for producing 100 results in theory courses and 85 and above results in analytical courses in end semester examinations in the courses</li> </ul>	<ul style="list-style-type: none"> <li>• Permission to do higher studies to enhance their qualifications.</li> <li>• Concessional</li> </ul>	<ul style="list-style-type: none"> <li>• Financial assistance to the students under 5 different scholarship schemes such as</li> <li>• Single Parent Scholarship :Student with Single Parent (Mother only)</li> <li>• No Parent Scholarship :Student with No Parent</li> </ul>

<p>handled. • Monetary incentives for publication / presentation of papers in peer reviewed Journals and Conferences. • Granting permission for attending Conferences, Seminars, Workshops , Faculty Development Programme, etc. [50 of registration fee] • Permission to register for M.Phil/ Ph.D. programmes to enhance their qualifications. • Concessional tuition fee for their children who are pursuing their career in SNS Group of Institutions. • Frequent outing with stress busting activities. • Some other benefits such as Group Medical Insurance, Medical Leave Facility, On duty facility, Provident Fund, ESI, etc</p>	<p>tuition fee for their children who are pursuing their career in SNS Group of Institutions. • Frequent outing with stress busting activities. • ESI and PF contribution by the Management • Group Insurance • Concessional Transport Facility • Leave facility such as Casual Leave, Medical Leave and Maternity Leave Facility</p>	<p>alive • Government Employee Toddler Scholarship :Children of Government Employee • SNS Employee Toddler Scholarship :Children of SNS Employee • Deserving Student Scholarship :Deserving Student who excel in Curricular, Co -curricular Extracurricular activities • Scholarship for the deserving sports students • Best Outgoing Student [BOG] Award for final year student with monetary benefit. • Outstanding Student Award for II and III year students with monetary benefit. • Remission of Travel and Registration fee for achievers in Co-Curricular activities. • Subsidized Bus Fare • Group Insurance Scheme • State/Central Government Scholarship facilities • Support for getting Educational Bank Loan / Financial Assistance from Private Trust.</p>
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#### 6.4 - Financial Management and Resource Mobilization

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

Yes, the college has a well structured mechanism of internal and external audit. Internal Audit: 1 Ensures whether expenses incurred are in accordance with the budget approved. 2 An internal approval system is in practice for all expenses made. 3 Internal Audit is done by the college accounts section and the accounts department of the Trust office. External Audit 1 Book of accounts are prepared as per statutory requirement and audited annually by External Qualified Chartered accountants. 2 M/s K.S. Palanisamy Co. Audit the trust documents and are responsible for filing of returns with Income Tax department and others. • The boys hostel, girls hostel and Controller of examinations office are subject to annual audit by the institution. • The institution maintains separate books of accounts for all the units and activities which are subject to annual audit by the independent chartered accountants and financial statements are also certified by the audit firm and the audit reports are issued every year. • Grants received from various bodies like UGC, AICTE, ICMR, CSIR, DST etc., are audited and utilization certificates are



submitted for the grants received before submission of Reports. • Finance Committee : The finance committee is constituted as an advisory body on all matters concerning the finances of the college as per the regulation of UGC. The Governing Body reviews and ratifies the proceedings.

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
SNS Institution Management	4311300	No Parent, Single Parent, Economically poor scholarship, Endowments, Rank holders, Best Outgoing student awards, Best All round performer etc

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6.4.3 - Total corpus fund generated

20000000

## 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	IQAC	Yes	IQAC
Administrative	Yes	K.S.Palanisamy Co, Coimbatore	Yes	Mr.V.Vaidyanathan

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

• • 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)

- • 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 • Programme targeting Ethics, Team Building, Leadership skills, etc is conducted once in a month

#### 6.5.4 - Post Accreditation initiative(s) (mention at least three)

1. Effective implementation of Outcome Based Education(OBE) and Choice Based Credit System(CBCS)which is in practice. 2. CBCS offers a range of choice to students to choose from Professional Core and Electives, Open Electives, Engineering and Basic Sciences, Humanities and Science courses and Employability enhancement courses. 3. Modular courses have been introduced to enhance the capabilities of learning and to bridge the academia industry gap. 4. Fast track system enables the meritorious students to study eighth semester courses in the earlier semesters and to undertake fulltime internship or industrial projects. 5. Inclusion of One-credit courses based on the contemporary industrial practices and needs. 6. Internships / Field visits and career-oriented training incorporated in the curriculum. 7. Incorporating Design Thinking during delivery of lectures 8. Incorporation of innovative teaching pedagogies such as ICT enabled lectures, flipped classroom, jigsaw method, think-pair-share, analogy etc. for effective teaching learning process. 9. To inculcate lifelong learning, the Institution motivates faculty members and students to complete one course per year in self-learning mode through online portals like NPTEL, SWAYAM, Udemy,etc 10. Online quick assessment by using tools during class room sessions. 11. Faculty visits to the industry, research laboratories, and universities in India abroad. 12. Management sanctions Rs.30 Lakhs every year for research and development. 13. Established Center of Excellence in Robotic Process Automation in collaboration with Automation Anywhere Inc 14. IQAC Goal setting on 5 pillars for faculty members and 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
2019	IQAC Quarterly Meeting I	19/06/2019	19/06/2019	19/06/2019	22
2019	IQAC Quarterly Meeting II	06/09/2019	06/09/2019	06/09/2019	22
2020	IQAC Quarterly Meeting III	08/01/2020	08/01/2020	08/01/2020	20
2020	IQAC Quarterly Meeting IV	27/05/2020	27/05/2020	27/05/2020	22
2019	External Academic and Administrative Audit	26/07/2019	26/07/2019	26/07/2019	19
2020	Academic Audit Odd Semester	27/01/2020	27/01/2020	31/01/2020	28
2019	Faculty Orientation Programme for the newly joined faculty members	20/06/2019	20/06/2019	21/06/2019	24
2019	A Research seminar is conducted on the Topic "How to write a review paper	29/07/2019	29/07/2019	29/07/2019	30
2020	International webinar on "Overseas Education at University of Pharma	07/02/2020	07/02/2020	07/02/2020	44
2020	International webinar on "Overseas Education at University of Padova by Mattia Gusella is Head of International Recruitment, Italy	04/02/2020	04/02/2020	04/02/2020	300

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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

Creation for the Sustainability	07/01/2020	07/01/2020	69	38
Who is a Powerful Women...?	21/01/2020	21/01/2020	86	30
Outbound Training Camp	20/06/2019	20/06/2019	6	50
Road Safety Awareness Programme	29/08/2019	29/08/2019	15	25
Awareness Programme on "Harassment against Women"	30/07/2019	30/07/2019	64	30
Cancer Awareness Program	15/10/2019	15/10/2019	257	Nil
Webinar on "What to learn and unlearn to meet industry's skill set expectations"	30/04/2020	30/04/2020	6	14
Webinar on "Attitude is Altitude"	08/05/2020	08/05/2020	10	25
Women Empowerment	13/12/2019	13/12/2019	82	32
Women in Leadership	10/12/2019	10/12/2019	64	42
Women as an Emerging Leader	17/12/2019	17/12/2019	112	34
Role of Women in Agri Management	24/12/2019	24/12/2019	75	41
Art of Parenting	31/12/2019	31/12/2019	85	62

#### 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
<p>Total power requirement : 400KW Type of Renewable energy source used : Solar Energy A solar power plant of 450kW capacity is installed in our college and it is functional from August 2018. The capacity of solar panels installed on roof of each block is as follows • 'C' block-100kW covering an area of 6800 Sq.Feet, • 'D' block-200kW covering an area of 13600 Sq.Feet, • 'F' block-150kW covering an area of 9600 Sq.Feet. Power Requirement of the College : 96320 units per month Power requirement met by renewable energy source (Solar Unit): 35456 units per month approximately. A SCADA based control is used for the purpose of controlling the plant. Percentage of power requirement met through renewable energy : 50</p>

#### 7.1.3 - Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1

<b>Braille Software/facilities</b>	<b>Yes</b>	<b>Nil</b>
<b>Rest Rooms</b>	<b>Yes</b>	<b>1</b>
<b>Scribes for examination</b>	<b>Yes</b>	<b>Nil</b>
<b>Special skill development for differently abled students</b>	<b>Yes</b>	<b>1</b>

#### 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	1	1	16/08/2019	1	Awareness Program on "Helmet Wearing"	Lack of awareness about helmet wearing	32
2019	1	1	20/09/2019	1	Awareness Program on "Tree Plantation and seed ball throw"	Importance of tree plantation	56
2019	1	1	10/10/2019	1	Environment protection	Temple cleaning, health awareness campaign	62
2019	1	1	29/08/2019	1	Road Safety Awareness Programme	Increase of Accidents near Saravanampatti Junction	42
2019	1	1	30/07/2019	1	Awareness Programme on "Harassment against Women"	Awareness for Women Empowerment	94
2019	1	1	19/07/2019	1	Awareness Programme on "Social	Regarding Engineering Responsibilities	22

					<b>Responsible Engineer-Pond Renovation</b>		
2019	1	1	24/07/2019	1	Awareness Programme on "Importance of Tree Plantation"	Awareness about Green Revolution	50
2019	1	1	26/07/2019	1	Awareness Programme on "Water Scarcity"	Awareness about importance of water and groundwater	80
2019	1	1	17/10/2019	1	RAISE and SHINE- Social Event	Social Event	51
2019	1	1	25/07/2019	1	Awareness Camp on "Fire Prevention"	Avoiding the outbreak and spread of fire.	52

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#### 7.1.5 - Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Students Calendar (Handbook for Students) consists of Code of Conduct for 1. Students in College	17/06/2019	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 teacher 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 non-academic support. Mentor set the targets for their ward and helps him/her to attain the target. The Mentor records the accomplishments of the mentees' academic performance and participation in club activities and any other

2. Students in Hostel 3. Parents		initiatives. In order to improve the academic performance of the students and to groom them in all aspects Mentor-Mentee meeting, collaborative meeting and class committee meeting are being conducted regularly every fortnight.
Staff Policy Book (Teaching and Non Teaching)	17/06/2019	Staff 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
Beauty within Yoga	21/06/2019	21/06/2019	56
Mind Activation through Yoga	04/09/2019	04/09/2019	48
Importance of Human values in Bhagavat Gita	23/10/2019	23/10/2019	33
National Integration and secularism	20/08/2019	20/08/2019	51
Gandhijis Principles on Non violence	01/10/2019	01/10/2019	48
Awareness Programme on "Water Scarcity"	26/07/2019	26/07/2019	80
International Tigers Day	29/07/2019	29/07/2019	200
No Plastic Awareness Campaign	04/08/2019	04/08/2019	50
Donated Grossaries to People worked in COVID19 area, Annur	17/05/2020	17/05/2020	17
Awareness Programme on Child abuse prevention	24/07/2019	24/07/2019	68

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

The college is lying on the lap of green and resplendent natural beauty with a variety of flora and fauna. The inmates of the college are very careful to keep the campus plastic free. Various clubs and forums are actively involved in the maintenance of ecological balance in the campus. The initiatives that have been put in place to promote the concept of 'reduce, reuse and recycle' contribute to protect the environment. The institute has the following eco-friendly scenarios.

They are • Waste Segregation • Water Recycling: Two separate sewage treatment plants (2700 sq.foot and 2100 sq.foot) with the capacity of 500 Kl/day collects all waste water which is treated and reused for gardening. • Rainwater Harvesting • Using sprinklers and drip irrigation for watering the plants and lawn which reduces wastage of water. • Energy conservation measures have been taken by o 450KW Renewable energy power generator (Solar Power) is installed o Replacing CRT monitors with TFT monitors o Providing good ventilation in the class rooms and hostel rooms. o Replacing tube lights with CFC bulbs. o Solar water heaters of 8000 litters capacity installed in the hostel. • Carbon neutrality is maintained with the 285 trees and 841 plants of the campus • Green audit has been conducted regularly by NSS, YRC, RRC units. 37 saplings, 716 plants and 243 trees are planted in and around the college premises and maintained. • Vehicle parking is located at the entrance to reduce pollution inside the campus. • Vehicle pooling is encouraged in the college. Persons residing nearby are commuting by bicycle or by walk. • The e-wastes are collected and stored in separate places until they are disposed off to certified dealers. • Apart from class rooms and laboratories, dust bins are kept in many places for clean maintenance of the campus. • Paperless office reduce the usage of paper - Internal circulars, online mode of feedback, quiz exam etc.

## 7.2 - Best Practices

### 7.2.1 - Describe at least two institutional best practices

□ Title of the Practice Case Study and Demonstration Based Learning □ Objectives of the Practice • To provide students with a relevant opportunity to see theory in practice • To require students to analyze data in order to reach a conclusion • To develop analytical, communicative, collaborative and practical skills along with content knowledge □ The Context Case Study Based Learning (CBL) is one of the well-known approaches used across disciplines where students apply their knowledge to real-world situations and promoting higher levels of cognition. In this methodology, students typically work in groups on case studies, stories involving one or more characters and/or scenarios. The cases present a disciplinary problem for which students devise solutions under the guidance of the instructor. Giving demonstrations or performing the particular activity or the concept is called as demonstration. Demonstration often occurs when students have a hard time connecting theories to actual practice or when students are unable to understand applications of theories. □ The Practice • To develop the conceptual skills and to solve industrial problems innovatively, students are undertaking Case Studies and Simulation Exercises. Cases are generously used in illustrating the contextual setting and also help to develop decision making skills under simulated conditions. The learning from the cases is more vibrant than what the students learn in theory class. Case study based learning has become mandatory for many courses where in sufficient number of cases will be discussed and the students need to present as a group/individual which will be evaluated as a component of their internal marks. In few courses, the case study based



learning become optional, and execution process lies with the purview of the course instructors to choose. • The demonstration model is one of the suitable methods for the technical and management students where in the course instructor may act as a facilitator and invite the students to perform or demonstrate a concept with or without properties. The faculty or students can use various teaching aids like models, blackboard, graphs or physical products during the demonstration. The demonstration method of learning is mandatory for few courses and project works where in the students can secure marks based on their performance. □ Evidence of Success The participatory activities such as case discussion and demonstration are regulated and monitored by the concerned course teacher on need basis and they are recording the students' performance in the Leader Board or as a component in their internal mark. As a mandatory component, every student must undergo Mini Project Capstone Project which will be displayed either as a demo model or as a printed report. The demo model or the report was evaluated and the students will earn their credentials according to their work and learning. In addition to that, students are encouraged to publish their research work as research paper in reputed journals. By systematic implementation of Case Study and demonstration based learning students are able to do more Industrial real time projects and Internships (2271 Students), participate in Hackathons and National level technical contests and get prizes (17 First Prizes in National level Events). Further students have published papers in scopus indexed/UGC Journals (44 Papers), filed 7 patents and they have setup 4 startups during their course of study in this academic year. □ Problems Encountered • Execution of Case Based Learning takes much time, and to resolve this issue students were given as assignment to work in home and a short time will be given to collaborate and present. • Not all the students are equally expert in the presentation of Cases and demo models. Since this is a group work, the outperforming students will earn good marks and the overall learning will not be common among the students community. • Faculty members struggled during the initial phase for engaging the students to present / participate. This was overcome by proper mentoring by the respective mentors. □ Title of the Practice Five Pillar Approach for Continuous Improvement □ Objectives of the Practice • To ensure continuous development in both academic and professional • To build an entrepreneurial mindset and environment to Learn, Collaborate and Socialize • To build a culture focusing on delivering effective teaching, learning, innovation building, skill and entrepreneurial development • To encourage the faculty and students to solve industry problems • To contribute to the society through social service □ The Context Five pillars approach is a unique initiative by the SNS group of institutions for the continuous development of faculty and students in both academic and professional. These 5 centres act as pillars of SNS institutions covering all streams of lives to strengthen our education system. The five pillars are 1. Centre for Learning and Teaching [CLT] – Facilitates in implementing Design Thinking based on Academic Curriculum. 2. Centre for Creativity [CFC] – Facilitates the faculty and students to get hands-on experience by solving key industrial problems through latest technologies. 3. Skills and Career Development

[SCD] - Building life skills (Social, Emotional and Cognitive) for the students through various club activities. 4. Industry Institute Partnership Cell [IIPC] - Connecting and learning business sense of top industries. 5. Socially Responsible Initiatives [SRI] - Giving back to the society through social services. Applying Design Thinking in all these dimensions helps the students to have academic freedom to understand complex problems and principles by engaging in learning activities and helps nurture progressive minds. □ The Practice The five centres are acting as pillars of SNS institutions encouraging the faculty and students to progress continuously. Below is the elaborate discussion on five pillars and its activities. 1. CLT: Rather than following traditional Teaching and Learning process, this centre drives towards Design Thinking based academic learning. The teachers' manual prepared by the faculty members are guiding principles in delivering design thinking based class room sessions. 2. CFC: The capability of our faculty and students are showcased in solving industrial problems, entertains them in consultancy activities, etc. The experience and exposure in this field helps them in product development, publishing patents, research papers books, etc. Intellectual, infrastructure and necessary financial supports are provided to the students in starting their own venture. 3. SCD: Regular class room sessions and various club activities are designed to build life skills for the students such as social, emotional and cognitive. Domain specific training and training on VQAR (Verbal, Quantitative Aptitude Reasoning) are given to the students to equip them for industry standards and for campus placements. Weekly assessment is carryout meticulously to understand their progress. 4. IIPC: This centre is created to get connected with top industries and learn business sense from them. All the industry connected activities such as Mini Project, Internship, In-plant Training, Capstone Project, Campus Placements and the Industrial Contest are the integral part of this centre for the development of the students. 5. SRI: Sri SNS Charitable Trust has been conducting various CSR activities for the upliftment of the society, under this umbrella. • Improving the quality of Education for School leaving children, Career Guidance coaching to join National Defense Academy. • Elevating the quality of life of the community through outreach activities conducted like blood donation camps and cleanliness drives. • Enhancing the quality of physical health of young generation by conducting various sports activities.. □ Evidence of Success • Students of our institutions have shared their positive feedback about design thinking based academic delivery. Their active participation in the class room activities such as role play, debate, brainstorming, group discussion and case study are the evidence of success of this centre. • Both the faculty and students are actively involved in consultancy such as solving industrial problems, app/web development, corporate training, etc. and generated significant revenues. In this academic year, 52 consultancy activities have been undertaken and generated 21.33 Lakhs revenue. • Excellent track record of campus placements. 87.8 of our students got placed in reputed companies with the highest package of 12 LPA and an average of 3.25 LPA. In addition to that, our students have completed many capstone projects, mini projects, summer internship, etc. and gave their best in



solving industrial problems. • Various CSR activities conducted, and highlighting few as given below. • Cyclothon was organized with an intention to promote "Let's go green as it makes environment clean". • Conducted an awareness campaign on Plastic Eradication - "Don't laminate earth! Say no to plastic". • Conducted Faculty Development programme for school teachers. □

**Problems Encountered and Resources Required** • The faculty and students struggled during the transformation process of following this innovative teaching and learning pedagogy. Design Thinking Boot Camp was organized for the faculty to handle this teaching and learning process as smooth as possible. • Difficulties were faced with respect to the conversion of approached companies offering consultancy works, placements, industry projects, etc. To resolve this, department wise second level placement team was formed and worked on above mentioned issues. • Exclusive Task Force team driven by highly experienced Directors / Deans on each pillar was formed to regulate and support the faculty members to drive towards the institution objectives.

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

<https://main.snsct.org/wp-content/uploads/2021/08/Best-Practices.pdf>

### 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

**INSTITUTIONAL DISTINCTIVENESS "DESIGN THINKING"** The distinctiveness of SNS College of Technology is that it focuses on Design Thinking in its curriculum framing, 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. 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. Understanding these five stages of Design Thinking will empower the students and faculty members of SNS to apply the Design Thinking methods in order to solve complex problems that occur around us. □ **OBJECTIVE** • 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. • To Use 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. SNS works on Design Thinking in 7 industry verticals and 5 technologies as its thrust areas, and they are as follows:

□ INNOVATION INDUSTRY VERTICALS Agriculture Food Technology Healthcare Energy Aerospace and Defence Automobiles FIN.TECH Smart City □ INNOVATION TECHNOLOGIES Augmented reality / Virtual reality Internet of Things AI/ML Data Analytics Robotics and Automation Additive Manufacturing DT Activation Hour – 30 minutes of class time is dedicated to teach students about the ancient holy books, practicing Meditation and Yoga on daily basis. Design thinking Boot Camps of 1week duration is organized for Students, Faculty Members and Supporting staff members. All were made to experience the 5 stages of design thinking.

Provide the weblink of the institution

<https://main.snsct.org/wp-content/uploads/2021/08/INSTITUTIONAL-DISTINCTIVENESS.pdf>

## 8.Future Plans of Actions for Next Academic Year

Future Plans: 1. To introduce online platform for teaching and learning through Olympus digital tool. 2. To introduce revision in regulation R2019 to incorporate the five pillar activities. 3. To introduce additional language courses like Hindi, Japan and German. 4. To provide AMCAT training programme for final year students to prepare them for Cognizant placement. 5. To update the contents in the college website incorporating the five pillar activities. 6. To motivate students, participate in top level contests and hackathons conducted by various national and international agencies. 7. To inculcate research culture among faculty members, a DT based product has to be developed by individual departments and the same has to be published in Scopus or equivalent journals. 8. To apply for AICTE-CII, NIRF, ATAL rankings 9. To encourage life-long learning among faculty members and students, NASSCOM future skills courses specialising in Artificial Intelligence, Data Analytics, IoT, 3D Printing and AR/VR has to be provided. 10. Lab stock verification has to be expedited and completed. 11. To motivate the students towards product development, an exclusive lab for product display is to be setup. 12. To promote alumni interaction, an Alumni Lounge is to be created for interaction and build relation with Alumnus. 13. To conduct induction program for fresher students through online platform. 14. To inculcate interactive and innovative learning, case study videos for individual courses is to be practiced. 15. To enrol students in Course era portal to have life long learning practice. 16. To create research culture among faculty members, motivation to publish their research work in Scopus/ web of science indexed Journals is to be carried out. 17. To encourage entrepreneurship ideas among students, a separate platform is to be created for converting ideas into start-ups.