



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		SNS COLLEGE OF ENGINEERING
Name of the head of the Institution		Dr.S.Charles
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		+917339223443
Mobile no.		7550316708
Registered Email		principalsnsce@gmail.com
Alternate Email		principal@snsce.ac.in
Address		SNS Kalvi Nagar, Sathy Main Road (Opp. CRI Pumps), Kurumbapalayam (Po), S.S.Kulam (via),
City/Town		Coimbatore
State/UT		Tamil Nadu
Pincode		641107

2. Institutional Status					
Autonomous Status (Provide date of Conformant of Autonomous Status)		07-Aug-2019			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr . P . Gnanasundari			
Phone no/Alternate Phone no.		+919443407147			
Mobile no.		7550316709			
Registered Email		iqac.snsce@gmail.com			
Alternate Email		principal.snsce@gmail.com			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		https://bitrix24public.com/sns.bitrix24.com/docs/pub/02b3ac9a883a604b69715bd14d9dd0a6/default/?&			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		https://bitrix24public.com/sns.bitrix24.com/docs/pub/988155be7195fda994041cc4b1dfc141/default/?&			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.01	2015	24-Dec-2015	02-Mar-2020
1	A	3.01	2020	03-Mar-2020	31-Dec-2024
6. Date of Establishment of IQAC			15-Jan-2015		
7. Internal Quality Assurance System					

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Goal setting - Faculty meeting	30-Sep-2019 1	167
SNS CLT Certification	25-Nov-2019 55	167
On line Performance Test	16-Nov-2019 1	145
IQAC- Academic Internal Audit	06-Jan-2020 7	160
AICTE-QIS	15-Nov-2019 5	42
IQAC Quarterly meeting I	04-Jul-2019 1	24
IQAC Quarterly meeting II	12-Oct-2019 1	23
IQAC Quarterly meeting III	20-Feb-2020 1	24
IQAC Quarterly meeting III	22-May-2020 1	24

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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 . P . Gnanasundari	MODROB	AICTE	2018 730	1958749
Dr . R . Sudhakaran	MODROB	AICTE	2018 730	1941000
Dr . N . Suresh Kumar	EDII	DST - NIMAT	2019 3	60000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View Link](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View Uploaded File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

IQAC has planned for 5 pillar activities for Individual Faculty members and Departments with targets. The targets are monitored and audited every week. 5 Pillars i. CLT (ICT enabled and Activity based Learning) ii. CFC (Research, Innovations and Entrepreneurship) iii. Skill and career development (Training, Smart India Hackathon/go kart/e kart) iv. Industry Interaction (Internship/Inplant Training, MoU and Placement) v. Social Responsibility Initiatives (Extension) 2.Design Thinking approach is incorporated in the Teaching and Learning and other Innovation related activities 3. Established various linkages with Industries and Universities for collaboration activities (Training, Research, Placement and Entrepreneurship). No. of Linkages: 560 MoUs:234 4. More number of Capability Building Programs for teachers and students in association with Professional bodies and Industries (No. of Programmes organized:220) 5. IQAC worked continuously for disseminating various policies and procedures of AICTE/UGC/MHRD to all the stakeholders for effective implementation in all the areas. IQAC Continuously worked for collecting and organizing quantitative and qualitative data from every unit of the department and institution for applying various ranking and accreditation agencies ? Autonomous Status from August 2019 ? Participation in Smart India Hackathon and other Initiatives ? Participation in NIRF, ARIIA, IIC and Clean Smart Campus Award ? Improving the Overall research and Quality Culture of the Institution and ? Conducting Audits

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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
Improve the Financial Stability of the Institution by applying Funds to various /State and central Govt.Agency	Number of Funds applied and Granted were significantly increased
Improvement in Faculty Empowerment	FDP attended by faculty in Industry/In house training on emerging technology is improved.
Improvement in Student exchange and Faculty Exchange with Foreign	MOU signed with Mara universiti, Malaysia for the Student Benefits
Improve the research culture	Number of research publications book/ book chapter publication and Patents were significantly increased

Five pillar activities	CLT,CFC,SCD,IIPC & SRI -Conducting activities regularly and monitored by IQAC				
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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="118 421 794 472" style="width: 50%;">Name of Statutory Body</th> <th data-bbox="801 421 1477 472" style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td data-bbox="118 472 794 524" style="text-align: center;">GOVERNING BODY</td> <td data-bbox="801 472 1477 524" style="text-align: center;">09-Oct-2020</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	GOVERNING BODY	09-Oct-2020
Name of Statutory Body	Meeting Date				
GOVERNING BODY	09-Oct-2020				
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	2019				
Date of Submission	30-Dec-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief descripton and a list of modules currently operational (maximum 500 words)	<p>The College has a Management information system for the Academic and administrative functioning of the college. The administrative system in the college is fully automated with appropriate software and all information on student admission,IAE Marks, fee payments available for timely decision making and actions. The College library is automated and the information available to the students and staff at fingertips. An online public access catalogue (OPAC) is implemented to enable the students for speedy and convenient access to the library catalogue. All the academic and administrative issues are deliberated and discussed in the appropriate body / Committees. All relevant information about the college is published on the college website for reference. Some forms of MIS which are practiced now:</p> <ol style="list-style-type: none"> 1. Daily Absent Report (Staff Students) 2. Monthly Report (Dept Wise) 3. IQAC Monthly Presentation 4. Management Review Meetings 5. Budget Meetings 6. IQAC Quarterly Meetings 7. Semester 				

Progress Report 8. Annual Report 9. Academic and Administrative audit and Action Taken Modules currently operational in MIS are 1. Admission Module 2. Fee Module 3. Attendance Module 4. IA Module 5. Courseware Module 6. Library Module 7. Student Module 8. Faculty Module 9. Alumni Module 10. Corporate Relation Module

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum 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	103	B.E. - Civil Engineering	24/08/2019
BE	104	B.E. - Computer Science and Engineering	24/08/2019
BE	106	B.E. - Electronics and Communication Engineering	24/08/2019
BE	105	B.E. - Electrical and Electronics Engineering	24/08/2019
BTech	205	B.Tech. - Information Technology	24/08/2019
BE	114	B.E. - Mechanical Engineering	24/08/2019
ME	431	M.E. - Embedded System Technologies	24/08/2019
ME	410	M.E. - Manufacturing Engineering	24/08/2019
ME	415	M.E. Power Electronics and Drives	24/08/2019
ME	405	M.E Computer Science and Engineering	24/08/2019

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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	B.E Computer	24/06/2019	19	27/01/2020

	Science and Engineering		DT101-Design Thinking and Innovation	
BE	B.E Computer Science and Engineering	24/06/2019	19CC623-Finance Accounting and Economics	27/01/2020
BE	B.E Computer Science and Engineering	24/06/2019	19CC521-Business Model Plan Canvas	27/01/2020
BE	B.E Computer Science and Engineering	24/06/2019	CCS024-Ethical Hacking	27/01/2020
BE	B.E Electronics and Communication Engineering	24/06/2019	CEC031 - Data Architect	27/01/2020
BE	B.E Electronics and Communication Engineering	24/06/2019	CEC032 - Natural Language Processing	27/01/2020
BE	B.E Electronics and Communication Engineering	24/06/2019	CEC033 - Artificial intelligence for IoT	27/01/2020
BE	B.E Electronics and Communication Engineering	24/06/2019	CEC034 - Emobotics Software	27/01/2020
BTech	B.Tech Information Technology	24/06/2019	CIT021-My SQL, PHP	27/01/2020
BTech	B.Tech Information Technology	24/06/2019	CIT 022-JAVA	27/01/2020
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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
BE	OMD551-Basic of Biomedical Instrumentation	24/06/2020
BE	OCE551-Air Pollution and Control Engineering	24/06/2020
BE	VCS24 - Introduction to Internet of Things	24/06/2020
BE	VCS23 -Aptitude and logical Reasoning	24/06/2020
BE	VCS22-Programming C	24/06/2020

BE	VCS21-Webpage design using HTML	24/06/2020
BE	CCS024-Ethical Hacking	27/01/2020
BE	CCS023-Mobile Application Development	27/01/2020
BE	CCS022-PHP / MySQL	27/01/2020
BE	CCS021-Adobe Illustrator	27/01/2020
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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.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	B.E Civil Engineering	20/08/2019
BE	BE Computer Science and Engineering	20/08/2019
ME	ME Computer Science and Engineering	20/08/2019
BE	BE Electronics and Communication Engineering	20/08/2019
ME	ME Embedded System Technologies	20/08/2019
BE	B.E Electrical and Electronics Engineering	20/08/2019
BTech	B.Tech Information Technology	20/08/2019
BE	B.E Mechanical Engineering	20/08/2019
ME	Manufacturing Engineering	20/08/2019
MBA	Master of Business Administration	20/08/2019
ME	Power Electronic Drives	20/08/2019

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
Programming C	06/07/2019	44
website design	06/07/2019	30
Cyber Security	06/07/2019	50
Internet of Things (IoT) using Raspberry Pi	06/07/2019	50
LabView	06/07/2019	56
Introduction to Internet of Things	06/07/2019	50

Sensor Fusion Technology	06/07/2019	40
Nanotechnology and Nanosensors	06/07/2019	22
Cyber-Physical Systems Modeling and Simulation	06/07/2019	85
Deep Reinforcement Learning	06/07/2019	58
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Electronics and Communication Engineering	58
BTech	Information Technology	38
BE	Mechanical Engineering	133
BE	Computer Science and Engineering	50
BE	Electrical and Electronics Engineering	14
BE	Civil Engineering	28
MBA	Master of Business Administration	54
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>To understand the stakeholder's views and the expectations, the institute has well-defined mechanism for collecting and analyzing the students' feedback for further improvement. Feedback from the students regarding the Faculty members, Institutional facilities, value added courses and industrial training is collected. Based on the feedback, the areas for the improvements are identified. Feedback from the students regarding the staff members, institutional facilities, value added courses and industrial training is collected. Based on the feedback, the areas for the improvements are identified. Various feedback mechanisms are followed in our college: 1. Feedback from Students 2. Feedback from Teachers 3. Feedback from Employers 4. Feedback from Alumni 5. Feedback from Parents Feedback from students is collected through class committee meetings and student feedback forms.</p>

Periodical class committee meetings are conducted to identify the difficulties in learning and remedial measures are suggested. Class Committee reviews the completion of syllabi, difficulties in theory and laboratory, need for extra training classes, add-on courses and infrastructure needs. The chairman of the committee submits the minutes of the meeting to the HOD wherein remedial measures will be recommended. The implementation of remedial is monitored by the Chairman of the committee. The faculty Advisor meets their ward every week to get the feedback on Teaching-Learning process. The faculty advisor interacts with the course teacher to overcome the teaching-Learning problem faced by their ward. The Academic coordinator takes the feedback from the students on teaching -learning process at the end of the semester for theory courses and twice a semester for laboratory courses

Quality of Teaching Process: The faculty members are encouraged to participate development programmes such as FDP, STTP programs to improve teaching quality. These programmes are based on improving their teaching quality, their research skills, encouraging use of modern technology and methodologies related to teaching, data analysis skills, updating their course knowledge. Faculty Peer groups are formed to encourage junior faculty members in quality teaching process through attending seniors classes, collaborative research and collaborative consultancy. Feedback on the teaching learning process is received from students as Students satisfaction survey based on a structured questionnaire framed and approved by the IQAC of this college. The questionnaire link is available on the institutional website and Students can drop their filled in feedback form in the feedback receiving boxes present in the college campus. The received feedback is then analyzed and necessary suggestions are given based on this feedback. Teachers provide informal as well as formal feedback to the head of the Institution on academic, administrative and other affairs related to the college. Members of anti ragging committee and Internal complaints committee also receive feedback from students through class campaigns. Grievances (if any) and necessary suggestions can be registered to the Grievance Redressal cell of the college through the box fixed in the College campus , the cell composition is altered every year at the beginning of academic session. Departments receive feedback from parents through parent teacher meetings and discuss different issues related to the overall development of their ward.

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	CIVIL ENGINEERING	120	29	12
BE	COMPUTER SCIENCE AND ENGINEERING	60	106	50
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	120	83	41
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	60	22	5
BE	MECHANICAL ENGINEERING	180	118	50

BTech	INFORMATION TECHNOLOGY	60	122	47
MBA	MASTER OF BUSINESS ADMINISTRATION	60	129	56
ME	EMBEDDED SYSTEM TECHNOLOGIES	18	9	6
ME	MANUFACTURING ENGINEERING	18	18	4
ME	POWER ELECTRONICS AND DRIVES	18	15	2
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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	205	68	144	23	167

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
167	167	39	54	7	42
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

Tutor-ward system The Institute follows tutor-ward system for counselling, mentoring and to improve the academic performance of the students. Each tutor is allotted with 20 students for providing academic, personal and psycho-social support and guidance. Induction program The Institution assesses the learning levels of the student's right from the time he/she is admitted to the college through an Induction program. It includes physical activities, creative arts, universal human values, literacy, proficiency modules, lectures by eminent peoples, visit to the local area, familiarization to the department and innovation under the induction program in which the students' assessment level is captured. Bridge course First year Students' assessment is based on their performance in the Plus Two, the stream in which they studied (Vocational, Mathematics Computer Science) and their medium of study (English Tamil). Based on their score and stream, the academic gap is identified and bridge courses are organized in English, Mathematics, Physics, Chemistry, Computer Science (5 Courses) and other skill-sets such as communication skills, presentation skills technical skills and group discussion. Also, lateral entry students' performance is assessed based on their diploma program. It identifies the academic gap and accordingly the bridge courses are planned for Mathematics and the fundamentals of engineering courses chosen in their respective program. After completion of this bridge course, in order to understand the level of each student, the post assessment test is conducted based on those 5 courses including other mentioned skill sets. Assessment of II to IV Year students' Learning level: The students of higher semesters are assessed

based on their performance in Internal Assessment Examination, lab-courses, classroom interaction and participation in Co Curricular and extra-curricular activities. Special programs for Slow learners Special care is given to slow learners by conducting remedial classes after college hours. It is conducted in the form of revision of important concepts, clarification of doubts, tutorials and test. It helps them to perform better in their examinations. Learner centric/Activity based/ICT tools are extensively used in teaching the slow learners and question bank is given to them. Academic and personal counselling is given to slow learners by the concerned class tutors and the Head of the Department. Mr.Karthik (IV ECE) has 19 arrears and always sitting separately. His faculty advisor was observed the same and asks him come for counselling. He discussed about his personal issues and Faculty advisor has taken suitable steps. Then he has cleared 12 subjects with in a single semester.

Special programs for Advanced learners Advanced learners are encouraged to develop Innovative projects through Design Thinking Boot camp programs, National level technical contests such as Smart India Hackathon, code vita/go-kart/e-kart, Technology Business Incubator (TBI) programs(FORGE), Entrepreneurship Activities and MHRD Innovation Cell (MIC) activities. In addition to that, they are motivated to participate professional body activities such as IETE, CSI, CII and other science technology events (international trade fair) for project contest and paper presentations. They are also guided to take up additional courses viz. MOOCs/NPTEL courses and other Technical certification in the 5 Technology Domains chosen

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1154	167	1:7

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
167	117	50	50	30

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	Dr .P.Gnanasundari	Professor	Most Caring Woman
2019	Dr .P.Gnanasundari	Professor	UltraWoman Award
2020	Mr .K.K.Rajkumar	Assistant Professor	Optimistic CTS Mentor Award
2020	Ms .M.Bhagavathipriya	Assistant Professor	Key Contributor-Mentor
2019	Mrs .P.Sumathi	Associate Professor	HOD of the Year
2020	Mrs .T.R.Lekhaa	Assistant Professor	Best Academician
2020	Dr .R.Sudhakaran	Professor	Best Academician Mechanical Engineering
2020	Dr .R.Sudhakaran	Professor	Shining Star
2019	Mr . K.Aravindhan	Assistant Professor	Young Achiever Award

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2.5 – Evaluation Process and Reforms

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

the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	103	03,05,07/I/III	21/01/2020	01/02/2020
ME	410	03,05,07/I/III	07/12/2019	23/12/2019
ME	431	03,05,07/I/III	07/12/2019	23/12/2019
MBA	631	03,05,07/I/III	07/12/2019	23/12/2019
BE	114	03,05,07/II,I II, IV	07/12/2019	23/12/2019
BTech	205	03,05,07/II,I II, IV	07/12/2019	23/12/2019
BE	105	03,05,07/II,I II, IV	07/12/2019	23/12/2019
BE	106	03,05,07/II,I II, IV	07/12/2019	23/12/2019
BE	104	03,05,07/II,I II, IV	07/12/2019	23/12/2019
BE	103	03,05,07/II,I II, IV	07/12/2019	23/12/2019
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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
0	1278	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://drive.google.com/file/d/1D8eiGUYNFyKwTayfF6zrkKmS3cKdV3Av/view>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
103	BE	Civil	28	22	79
104	BE	Computer Science	50	47	94
106	BE	Electronics and Commu	58	47	87

		ication			
105	BE	ELECTRICAL and Electronics	14	7	50
205	BTech	Information Technology	38	29	76
114	BE	Mechanical	133	88	66
410	ME	Manufacturing Engineering	3	3	100
631	MBA	Master of Business Administration	54	41	76
431	ME	Embedded System Technologies	1	1	100
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2.7 – Student Satisfaction Survey

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

https://bitrix24public.com/sns.bitrix24.com/docs/pub/da88d773eba3f090926227d8b31d7fba/default/?&__

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
Dr.A.Velumani
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Mrs.R.Muthuminal	Appreciation Award	10/01/2020	Universiti Teknologi MARA
International	Ms.S.Geetha	Appreciation Award	10/01/2020	Universiti Teknologi MARA
International	Dr.A.Velumani	Appreciation Award	10/01/2020	Universiti Teknologi MARA
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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
Major Projects	1095	AICTE - MODROB	19.58	19.58
Minor Projects	60	EDII	0.6	0.6
Interdisciplinary Projects	180	Trio Engineering Company	39.23	39.23
Interdisciplinary Projects	180	Harihar Alloys	0.25	0.25
Interdisciplinary Projects	270	Jains Devasena Apartment	0.4	0.4
Interdisciplinary Projects	270	Dhanvi Infotech	0.45	0.45
Interdisciplinary Projects	270	S S Associates	0.45	0.45
Interdisciplinary Projects	180	Generic CNC	0.35	0.35
Interdisciplinary Projects	180	Harihar Alloys	0.25	0.25
Interdisciplinary Projects	180	KitKat Software Technologies	0.6	0.6

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

1

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
Role of IPR in Mechanical Engineering	MECH	04/02/2020
Innovation Technologies in Entrepreneurship	IT	08/01/2020
Current Trends in Automotive	MECH	27/04/2020
International Webinar on Welding Process and Technologies	MECH	30/04/2020
Offshore Oil Exploration - An Overview	MECH	07/05/2020

Emerging opportunities for new Entrepreneur Guidelines to start ups	IT	08/01/2020
Intellectual Property Rights (IPR) Awareness Workshop	CSE	07/11/2019
Intellectual Property Rights (IPR) and Patent Filing	CSE	23/06/2020
Awareness on Intellectual Property Rights (IPR)	ECE	18/09/2019
How to file a Patent in India	ECE	15/04/2020
Copyrights infringement control awareness	ECE	07/05/2020
International Webinar on the Future of Robotic Process Automation	ECE	06/05/2020
Data Analytics in Business Intelligence	ECE	07/05/2020
Webinar on Corporate Experience and Communication Skills	ECE	10/06/2020
Induction program of EDC	MBA	05/08/2019
Workshop on Digital Marketing	MBA	13/02/2020
Workshop on Business Analytics	MBA	10/02/2020
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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
HOD of the Year	Dr.R.Sudhakaran	InSc	23/11/2019	Administration
Best Academician	Dr.R.Sudhakaran	ISSN Awards	23/03/2020	Academics
Shining Star	Dr.R.Sudhakaran	SNS Institutions, Coimbatore	14/03/2020	Academics Administration
Best Design	Mr.S.Rajagana pathi	National Institute of Technology, Trichy	15/02/2020	Co Curricular
Young Scientist Award	Mr.Aravindhan K	Tamilnadu Scientific Research Organisation	24/08/2019	Academics

Best Student Award	Ms.Anusa TS	Tamilnadu Scientific Research Organisation	24/08/2019	Academics
Recognition for her contribution as Organizer	Ms.P.Sumathi	TEDx	19/10/2019	Administration
Rising Star	Dr.A.Kowshika	SNS Institutions	14/03/2020	Academics
Garbage Monitoring System	A.Mohanapriya	AICTE at Hindusthan Institute of Technology and Science , Chennai	18/12/2019	Project
Smart Irrigation System	S Antony Samrat	CCS NIAM Centre of Excellence Incubation Committee (CIC), NIAM, Jaipur	29/07/2020	Project

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Pre-Incubation Facility	i Hub	SNS Institutions	Pro Pack	Packaging	01/07/2020
Pre-Incubation	i Hub	SNS Institutions	MECHINDO	Drone	21/07/2020
Pre-Incubation	i Hub	SNS Institutions	RYTHYM	Packaging	21/07/2020
Pre-Incubation	i Hub	SNS Institutions	MINUS24	Photography	07/05/2020

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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
CSE	5
MECH	1
ECE	3
IT	1
ENGLISH	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
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			any)
International	CSE	4	1.45
International	ECE	12	5.24
International	IT	1	0.7
International	MECH	6	1.25
International	MBA	2	0.15
International	EEE	2	1.25
International	Civil	1	1.0
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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
MECH	1
IT	4
ECE	2
CSE	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A smart fish to detect and monitor contamination in aquatic ecosystem Using micro-controller	Published	202041013698 A	15/05/2020
COVID Knob	Published	318763-001	29/06/2020
Multipurpose Four Jaw Vice operated with Cam Mechanism	Published	317484-001	09/08/2019
WBAN Based Health Monitoring System and a Method There of	Published	202041043262 A	09/10/2020
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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
Prevention Of Borewell Accidents	Dr.P. Gn anasundari	Studies in Indian Place Names (UGC Care Journal)	2020	0	SNS College of Engineering	3

Firmly Fixed Route Selection with Cluster Approach to Diminish Overhead in VANET	Mr.K.Ara vindhan	IEEE Student Conference on Research and Development (SCORED)	2019	0	SNS College of Engineering	3
Envisioning Social Media Information for Big Data Using Big Vision Schemes in Wireless Environment	Dr.N.Kar thikeyan	Wireless Personal Communications	2019	0.96	SNS College of Engineering	20
An enhanced graph-based semi-supervised learning algorithm to detect fake users on Twitter	Dr.N.Kar thikeyan	Journal of Supercomputing	2019	2.16	SNS College of Engineering	25
A Novel Pair Based Sink Relocation and Route Adjustment in Mobile Sink WSN integrated IoT	Dr.N.Kar thikeyan	IET Communications	2019	1.27	SNS College of Engineering	3
An Iterative Processing Scheme for Enhancing the Map Reduce Using Map Information Storage in Wireless Environment	Dr.N.Kar thikeyan	Wireless Personal Communications	2019	0.96	SNS College of Engineering	4
A Study on	M.Sathish	Materials	2020	0.97	SNS College of	1

Corrosion behavior of stainless steel dissimilar alloy weld joints (321 347)00	Kumar	Today Proceedings			Engineering	
Predicting tensile strength of filler added friction stir welded AA6082 and AA5052 dissimilar joint	M.Sathish Kumar	Materials Today Proceedings	2020	0.97	SNS College of Engineering	1
Investigations on performance and emission characteristics of single cylinder four stroke CI engine fueled with diesel-Azadirachtaindica oil blends	Sivakumar, P., Sathish Kumar M and Susila, B	AIP Conference Proceedings	2019	0.26	SNS College of Engineering	2
Prediction of angular distortion in gas tungsten arc welded 202 grade stainless steel plates using artificial neural networks-An experimental approach	Sudhakaran R, Mahendran S	AIP Conference Proceedings	2019	0.26	SNS College of Engineering	3

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
Edge Detection Based Feature Extraction for Intelligent Car Parking System	R.Jamuna	Waffen-Und Kostum kunde Journal	2020	1	1	SNS College of Engineering
Mechanical and Tribological properties of abaca-rosette/cardanol form aldehyde hybrid composites	M Anandajothi	Materials Research Express	2020	21	3	SNS College of Engineering
Optimization of nozzle hole number for a diesel engine fueled with kapok methyl ester blend	Narayanan. S	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2019	37	1	SNS College of Engineering
Influence of High-Frequency Mechanical Peening on the Fatigue Life of Stainless Steel Joints in Corrosive Environment	R. Govindaraj, R. Sudhakaran, K. M. Eazhil, S. Mahendran and L. Senthil Kumar	Transactions of the Indian Institute of Metals	2019	23	2	SNS College of Engineering
A Study on Corrosion	M.Sathish Kumar	Materials Today Proc	2020	18	2	SNS College of Engineering

behavior of stainless steel dissimilar alloy weld joints (321 347)		eedings				g
Predicting tensile strength of filler added friction stir welded AA6082 and AA5052 dissimilar joint	M.Sathish Kumar	Materials Today Proceedings	2020	18	2	SNS College of Engineering
Investigations on performance and emission characteristics of single cylinder four stroke CI engine fueled with diesel-Azadirachtaindica oil blends	Sivakumar, P., Sathish Kumar M and Susila, B	AIP Conference Proceedings	2019	60	2	SNS College of Engineering
Prediction of angular distortion in gas tungsten arc welded 202 grade stainless steel plates using artificial neural networks-An experimental approach	Sudhakaran R, Mahendran S	AIP Conference Proceedings	2019	60	3	SNS College of Engineering

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

Number of Faculty	International	National	State	Local
Presented papers	7	0	0	0
Resource persons	1	4	0	1
Attended/Seminars/Workshops	14	79	0	34
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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)
Mechanical Engineering	Waste heat recovery from boiler	Arasi cottage Industries	100000
Mechanical Engineering	Design of special die for runner and riser components	M/s Ramya Engineering	65000
Computer Science Engineering	Billing Software using POS	Sadhana Tyres	210460
Computer Science Engineering	Website	THULIR BUILDERS	30000
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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 generated (amount in rupees)	Number of trainees
Computer Science Engineering	Art of Customer care and Client Communication	DhanviInfotech, Coimbatore	20000	15
Electronics and Communication Engineering	Creative Thinking Program	Trio Engineering Company	20000	15
Information Technology	AI for Business	KitKat Software Technologies	20000	10
Mechanical Engineering	Workplace Ethics	BKN Industries, Coimbatore	20000	15
Master of Business Administration	Digital Marketing	AIC Raise Business Incubator Private Limited, New Delhi	40000	25
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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
Dengu Fever Awareness Programme	SNS College of Engineering	3	50
NSS Unit Organized Blood donation camp	Coimbatore Medical College Hospital	4	60
NSS volunteers donated blood	Akil Bharatiya Terapanth Yuvak Parishad	5	80
Basic Computer Educational Programme for Police Department	SNS College of Engineering	3	80
Women's empowerment programme at SNSCE Campus	SNS College of Engineering	2	50
Borewell Closing Awareness Rally programme with Annur Panchayat	SNS College of Engineering	3	30
Road Safety Awareness Camp	Sumathi Motor Sports	2	60
COVID 19 Awareness Camp	Kumaran Medical Center	2	30
Blood Donation Camp	CMCH Coimbatore	3	115
Eye Camp	Lotus Eye Hospital	3	40

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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
Blood Donation Camp	Best Contributor Award	CMCH Coimbatore	75
Academic Award Function	Best Student Award	Tamilnadu Scientific Research Organisation	1
Project	ChhatraVishwakarma Award	AICTE at Hindusthan Institute of Technology and Science , Chennai	5

Awareness on Rainwater Harvesting	Certificate of Appreciation	KVK boys Higher Secondary School, Puliampatti	192
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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 activities	Number of students participated in such activities
NSS Scheme	Extension Activity Centre	Uyir Club Launch Events	5	50
NSS Scheme	Extension Activity Centre	Contribution to One Student One Tree	10	30
Govt of India	Extension Activity Centre	Independence Day Celebration	10	100
Walkathon	Extension Activity Centre	Walk out of love. SNS Institutions initiates walkathon to express the love for parents. WALKATHON	15	100
YRC Scheme	Extension Activity Centre Kumaran Hospital	Blood Donation camp	3	80
NSS Scheme	Extension Activity Centre SNS College of Pharmacy and Health Sciences	Coronavirus Infection - Prevention And Awareness Programme Day 1	5	220
NSS Scheme	Extension Activity Centre Government Hospital, Madukkarai	Coronavirus infection - prevention and awareness programme Day 2	5	225
NSS Scheme	Extension Activity Centre	Coronavirus Infection - Prevention And Awareness Programme Day 3	5	225
International Yoga Day	Extension Activity Centre	Yoga celebration	3	300
Govt of India	Extension Activity Centre	Republic Day Celebration	3	50
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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
Collaborative Research	Mr.M.Sathish Kumar	Self	90
Collaborative Research	Mr.K.Thirumalaikannan	Self	120
Collaborative Research	Mr.P.Sivakumar	Self	150
Collaborative Research	Mr.K.M.Eazhil	Self	90
Collaborative Research	Mr.R.Ruthuraj	Self	120
Collaborative Research	Ms.B.Susila	Self	180
Project work	Mr.S.Kamalakaran	Wizzard Systems	90
Project work	Mr.S.Siddharthan	Wizzard Systems	90
Project work	Mr.S.Siddharthan	M/s. Popular Systems	90
Project work	Mr.K.K.Rajkumar	M/s. Hailstone Engineering	90
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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	Internship	M/s SME Automatic Systems	10/02/2020	24/02/2020	Devaadhithiya Ramesh Devaananth .M Dhananjayan. S. Dharanidharan.M Dhurairaj. K.
Internship	Internship	M/s Flow Link Systems Pvt Ltd	20/01/2020	31/01/2020	Dinesh. M. Dondapati Kumar Eswar Francis Daniel .G Ganesh Raj. R. Gokul. M
Internship	Internship	Kavai Enterprises	31/12/2019	10/01/2020	Gokul. V G okulkrishnan . R Gokulsri nath. S. Gow

					rishankar. S. Gowtham. S.
Internship	Internship	M/s Lakshmi Gears	09/11/2019	21/11/2019	Guru Prakash. K. Harishankar. K. Harisurya. A. Jawahar. R. Jayanth. R. Ram
Internship	Internship	M/s Hari Precision Works	10/02/2020	24/02/2020	John Samuel . Joyalanantha Raj. L. Kalisaran. S. Kamaleshw aran. S. Kannan. K.G.
Internship	Internship	M/s Tekno Plast	20/01/2020	31/01/2020	Karthick. M. Kavin. R. Maya Jalantar. E.S. Mey Aravinth .K Mohamed Nishad. L.
Internship	Internship	M/s M .S.E ngineering Agencies	31/12/2019	10/01/2020	Mohamed Niyaas. S. M ohamedriyask han. N. Mohamed Safeek. A. Mohanbabu. T. Aravind. R
Internship	Internship	M/s Sri Krish Automation	09/11/2019	21/11/2019	Saran Raj A Vipul.E SANJEEV.M. SANTHAANA SABARISHAN. N. SARAVANAN. R.
Internship	Internship	M/s The Engineers Edge Institute of NDT	20/01/2020	31/01/2020	SARA VANAN. S. SHANTHANU. M. SRIDHARAN. D. SRIDHAR SHARAAM.V. T HAMARAISELVA N. G.
Internship	Internship	M/s Resource	31/12/2019	10/01/2020	THAMIZHVAN AN. S. VIGNE

Robotics

SHWARAN. G.
NARESH. S.
NAVENEETHAN.
A.V.
NAVEENKUMAR.
K.[View File](#)

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
M/s Resource Robotics, 239, Akamal Gardens, Chinnavedapatti, Coimbatore - 641 049	27/02/2020	Internship/Job Training	5
M/s En-Protect Engineers, Coimbatore	25/02/2020	Internship/Job Training	5
M/s The Engineers Edge Institute of NDT, Coimbatore	25/02/2020	Internship/Job Training	5
Natty Pangolin	30/01/2020	Seminar	32
Nexgen Solutions	13/09/2019	Workshop	30
Krishna Advertisements	05/03/2020	Seminar	30
M/s. Spectrum Digital Infocom (Second Party) located at No.5, First Floor, Selvanayagi Complex, Gokhale St, Ramnagar, Gandhipuram, Coimbatore -641009	11/03/2020	Seminar , Placement , Internship and Guest Lecture	80
Melvin Engineering, Coimbatore No. 18/2, Gandhiji Road, Bharathiyar Nagar, Podanur (Po), Podanur (Po), Coimbatore-641023, Tamil Nadu, India	18/06/2020	Guest Lecture, Workshop, Internship	120
M/s Ever Green Oppurtunities No. 10, 2nd floor, Ayyappan Koil St. B.V.Puram, Near Avadi Bus Terminus,	21/08/2020	Guest Lecture, Workshop, Internship	107

Avadi, Chennai - 600 054.			
M/s MIWAFES Consulting P.Ltd., Chennai.	29/06/2019	Guest Lecture, Workshop, Internship	55
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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
10	9.87

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Classrooms with Wi-Fi OR LAN	Existing
Video Centre	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Newly Added
Class rooms	Existing
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Lips i NET 5	Fully	5	2007
Lips i NET 5	Fully	5	2020

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	4219	2040036	1614	902979	5833	2943015
e-Books	925	0	783	0	1708	0
Journals	139	310080	0	0	139	310080
e-Journals	819	0	819	0	1638	0

CD & Video	1776	0	3763	0	5539	0
Library Automation	1	15930	0	0	1	15930
Digital Database	1	0	1	13570	2	13570

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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
Mrs.M.Bhagavathi Priya	Population Growth	Youtube	24/03/2020
Mr.K.Jagadeesh	Design Thinking on Development of ATOM Encoders	Youtube	12/05/2020
Mrs.K.Sangeetha	Power Wall, Uniprocessor to Multiprocessor	Youtube	22/05/2020
Mrs.P.Ramya	DT Case study- Rotterdam Eye Hospital	Youtube	16/06/2020
Ms.J.Jasmine Kavitha	Case study on Multirate Control	Youtube	23/06/2020
Mr.K.K.Rajkumar	Multi carrier Modulation	Youtube	04/06/2020
Ms.K.Kalaiselvi	Industry Case Study on Webs Eye	Youtube	24/06/2020
Dr.R.Sudhakaran	Heat and mass transfer	Youtube	24/03/2020
Mr.N.Srilakshmanan	Decision Making Using Engineering Economic Tools: A Real Case Study	Youtube	28/04/2020
Mr.P.Sivakumar	Biogas as an Alternative Fuel	Youtube	16/04/2020

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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	935	17	935	1	1	1	6	100	0
Added	60	0	45	0	1	6	0	0	8

Total	995	17	980	1	2	7	6	100	8
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4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

100 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
studio	https://youtu.be/UblXciJckZO
studio	https://www.youtube.com/channel/UCTaDlVRMr9DG8gTKFAabCwQ/videos

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
80	88.17	360	363.76

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)

Introduction The institution is having well established systems for maintaining physical, academic and support facilities. Physical facilities an exclusive housekeeping department takes care of the complete campus maintenance. The college constantly upgrades the facilities and requirements like class rooms, tutorial rooms, ICT tools, laboratories, library, seminar halls, hostel facilities, sports facilities and world class indoor stadium based on the needs and increase in the intake of admissions. We also provide impetus on expending the budget in creating and maintaining state of the art facility in terms of buildings, student spaces, laboratory equipments, teaching aids, learning resources, etc. Class rooms, tutorial rooms, smart class rooms, laboratories, seminar halls and rest rooms are cleaned on daily basis. This ensures proper cleanliness of the campus. During the class committee meeting, students' feedback on infrastructure maintenance is collected and suitable remedial actions were taken for the complaints received. All the equipment's, instruments, machineries are properly used and maintained as per the requirements. The institution has approved suitable maintenance agencies for maintaining and up keeping of all lab equipment's. The stock verification is being carried out semester wise. Annual maintenance budget for each department is included in the institution budget. Support facilities the estate office utilizes approved maintenance agencies for the maintenance of lifts, fire extinguishers, fire systems and generator. System administrator maintains the internet connectivity and CCTV security system. Institution has an exclusive maintenance mechanism where the students and faculty members can lodge their complaints on electrical and plumbing faults. The Research and Development Cell has been carved out to promote the research activities in the field of Science, Engineering and Technology among the students and faculty members by providing necessary facilities and infrastructures required by them. The maintenance team will rectify the issues immediately. Following work is being carried out by computer and system maintenance department • ERP software support and maintenance • Uploading of data in college website • Renewal of software agreement such as Microsoft, campus agreement etc. • Installation and up

gradation of software • Hardware maintenance of computer • Maintaining records of all computers and peripherals including printers, lease line, BSNL line for Internet, and Jio Wi-fi is used in the campus • Maintenance of all UPS • Maintenance and service of CCTV cameras and backup of video recorded. • Campus wide networking. Physical Education The Department of Physical Education of SNSCE provides facilities for both outdoor and indoor games for the interested students to practice as well as conduct of intramural and extramural events in sports and games. Multipurpose indoor stadium provides courts for basketball, volleyball, badminton and table tennis. 'SPINE THE SNS ACTIVITY CENTER' witness, a plethora of humans bonding on their common interests and motivations. As a unique hub, to enhance business connections among the industry and institution, SPINE THE SNS ACTIVITY CENTER is set to amaze with its dynamic and vibrant infrastructure facilities. SPINE THE SNS ACTIVITY CENTER not only allows individuals to improve their life skills but also gives them a precious chance

<https://bitrix24public.com/sns.bitrix24.com/docs/pub/1f0c3424bce6c7b233d02b1dc3016532/default/?&>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	SNS Charitable Trust Scholarship	178	2720000
Financial Support from Other Sources			
a) National	SC/ST Scholarship	93	5220000
b) International	Nil	Nil	Nil
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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 implementation	Number of students enrolled	Agencies involved
Career Guidance	29/01/2020	3	Placement Cell, SNSCE.
Educational Fair	28/01/2020	55	The Hindu Education, Taj Vivanta, Race Course Road
Entrepreneurship Programme	08/01/2020	65	DST – NIMAT Entrepreneurship Development Institute of India (EDII), YESVEE Industries
International Seminar	14/08/2019	16	Management Business Administration, SNS College of Engineering
Technoxian 5th international	23/09/2019	7	World Robotics Championship

Robotics League and world robotics championship			International Robotics League , Thyagaraj Stadium,new Delhi
Exposure Visit	25/06/2019	32	Department of Computer Science and Engineering (CSE), SNS College of Engineering
CEO talk	13/09/2020	107	Mr.Sriram Lashman, Operation manager, Nexgen solutions, Coimbatore.
Project Launch 2020	10/03/2020	50	Department of Computer Science and Engineering (CSE), SNS College of Engineering
Social Awareness Programme	22/07/2019	35	Department of Information Technology,SNS College of Engineering
Awareness Programme	27/01/2020	87	DST-NIMAT, EDII

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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	How to be a successful web Developer	0	5	4	4
2019	"How to tackle Placement Interviews"	7	1	12	12
2019	Cyber Security as a Career option	0	11	4	4
2019	The Essentials Traits of a Software Programmer looking by	0	5	3	3

	IT services industries				
2019	The Enormous Leap - Making the transition into the corporate world	0	6	2	2
2019	Placement training	0	24	7	7
2020	DST-NIMAT, EDII sponsored Entrepreneurship Awareness Programme	0	58	1	1
2020	Placement training	0	20	3	3
2020	Placement training	0	5	1	1
2020	Placement training	0	55	39	39
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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
0	0	0

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
M/s LTI	35	2	M/s Wipro	6	3
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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.	Computer Science Engineering	Amrita Institutions, Coimbatore	M.E CSE
2020	1	B.E.	Computer Science	SNS College of	M.E CSE

			Enginnering	technology, CBE	
2020	1	B.E.	Computer Science & Enginnering	Vytautas Magnus Unive rsity,Kaunas , Lithuania	M.S
2020	1	B.E.	Electronics and Communic ation Engineering	Sri Ramakrishna Engineering College, Coimbatore	M.E. VLSI Design
2020	1	B.E.	Electronics and Communic ation Engineering	Heriot - Watt University, Scotland	Msc Robotics
2020	1	B.E	Mechanical Engineering	UNIVESITY OF GREENWICH	MS LOGISTICS AND SUPPLY CHAIN MANAGEMNT
2020	1	B.E	Mechanical Engineering	PSG COLLEGE OF TECHNOLOGY	MBA
2020	1	B.E	Mechanical Engineering	POLITECNICO MILANO,Italy	MS MECHANICAL ENGINEERING
2020	1	B.E.	Electronics and Communic ation Engineering	Anna Unversity, Chennai	M.E
2020	1	B.E.	Electronics and Communic ation Engineering	SNS College of Technology, Coimbatore	M.B.A
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	7
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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
Sports day Tournament	Institution level	10
Sports day Tournament	Institution level	7
Sports day Tournament	Institution level	17
Sports day Tournament	Institution level	3

Sports day Tournament	Institution level	18
Sports day Tournament	Institution level	11
Sports day Tournament	Institution level	10
Sports day Tournament	Institution level	4
Sports day Tournament	Institution level	13
Sports day Tournament	Institution level	5
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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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
Nil	II Place in Anna university zonal Atheletic Meet	National	1	Nil	713317104009	Ms. Deepika.R
2019	Gold Medal from 6th National Level Championship - 2019	National	1	Nil	Nil	Gowtham.B
Nil	Winner at KGISL Institute of Technology	National	1	Nil	713317104009	Mr. Pradesh Balaji.R
Nil	II Place in Anna university zonal Atheletic Meet	National	1	Nil	713317104009	Ms. Deepika.R
Nil	II Place in Anna university zonal Atheletic Meet	National	1	Nil	713317104009	Ms. Deepika.R
Nil	Handloom-Fashion Show- Title Winner	National	Nil	1	713316106035	Mithra.B
Nil	Winner at KGISL	National	1	Nil	713317106066	Roshan.R

	Institute of Technology					
Nill	Selected to represent Tamilnadu Cricket team at National Level - INDIA Senior Nine A Side Cricket National Championship, New Delhi	National	1	Nill	17CEME752	Saran Raj .A

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

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

Harassment cell: The cell aims to prevent sexual harassment by promotion of gender equality among staff, students and other employees. Any complaints to the cells are dealt in a time bound manner, aiming at ensuring support to the victims and prevent such things in future through appropriate action in Counselling Cell. The counselling cell provides students with unwavering services in the area of guidance and counseling. Its services had been utilized by any number of students of our college. Both Group and Individual counseling services are provided as per the need of the hour. The Counseling sessions are conducted in a complete private and confidential manner.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The College has its own registered Alumni Association. The stronger the network of alumni, the greater is the impact. Additionally, the sense of belongingness and identity is enhanced and this has a positive outcome when senior batch alumni return to the campus to deliver guest lectures, provide mentoring, participate in campus placements process, etc. The vast majority of the alumni database is made up of engineering professionals, who work for some of the best corporations of the world. There are also management graduates who occupy important positions in the corporate world. The following alumni activities are carried out through our alumni network. • Facilitate visit to the campus • Guest Lecturer / Visiting Faculty • Campus Recruiter • Explore industry academia collaboration avenues like research, projects, consultancy, kits, etc. • Mentor juniors regarding their careers • Nominate Outstanding alumnus by tracing one's personal growth and success story. • Post job openings of one's organization 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 Creating an engaged, supportive alumni network is crucial to an institutions success.

5.4.2 – No. of registered Alumni:

4874

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

269200

5.4.4 – Meetings/activities organized by Alumni Association :

Number of Alumni Association / Chapters meetings held during the Year	Date of Alumni Meeting	No. of Alumni attended	Agenda of meeting	Resolution passed	Action taken
12	21.06.2020	12	Expectation of Company towards young engineers	Value added courses Included in the curriculum	27.07.2019
16	27.07.2019	16	To share about the Industrial working Experience	CEO Talks Arranged various CEO Talks as a grooming opportunity for a junior leader	09.11.2019
22	09.11.2019	22	To share how to develop Interpersonal skills in the workplace	VQAR Tests for all Years Included VQAR in the curriculum	25.01.2020
24	25.01.2020	24	To share about how our curriculum helped them in Industry Hands on Training for students	Conducted various Hands on Training and Boot camps	04.04.2020
19	04.04.2020	19	To collect feedback from the Alumni	Guest Lectures and Webinars of alumni	Arranged various webinars during lockdown
17	07.06.2020	17	To share about industry expectations and their experience	Guest Lectures and Webinars of alumni	Arranged webinars
10	6-Nov-19	10	To share their experiences in the corporate and entrepreneurial world.	Included Role play, debates, Online resources , CEO Talks, Industry visit	13-Mar-20
12	13-Mar-20	12	To collect feedback from the Alumni	Guest Lectures from the Alumni members	Arranged various webinars
28	11.10.2019	28	Interactive Session with Juniors on Current Industrial Scenarion		

To help in Placement Drives for Students 15.12.2019 36 To collect feedback from the Alumni To meet Current Industrial Need in Developing Syllabus 28.04.2020 56 Virtual Meet- Pandemic Situation -Current Industrial Scenario-Series-I Steps to Over Come after Covid Arranged various webinars during lockdown 12.05.2020 58 Virtual Meet- Pandemic Situation -Current Industrial Scenario-Series-II Steps to Over Come after Covid Arranged various webinars during lockdown Number of Alumni Activities held during the Year Date of Activity Type of Activity Name of the Alumni Participated with Affiliation Year of Alumni Graduated No. of Students Participated 30.05.2020 Webinar Mr Siddharth Eswaramoorthy, Software Engineer, Orion Innovation, Coimbatore 2016 12 30.05.2020 Webinar Ms N.Suganya, System Engineer (Cyber Security), Infosys Limited , Mysore 2015 16 21.05.2020 Webinar Mr J.Jefry Rajan, Software Engineer, Nalashaa Solutions Pvt Ltd, Bangalore 2017 12 23.05.2020 Webinar Mr Gokulan .K, Software Engineer, KMIT Solutions , Coimbatore 2018 16 14.05.2020 Webinar Ms R.Neela Devi, Test Engineer, Infosys Limited , Techno Park Phase - I , Trivandrum , Kerala. 2017 16 16.05.2020 Webinar Ms Sherin P. Stanley, Associate , Security Research and Testing, Zacco , Bangalore 2019 14 09.05.2020 Webinar Ms Benitha Shierly , IT Support Specialist, Infosys , Bangalore 2016 18 07.05.2020 Webinar Ms Francisca Dani.J, Senior Analyst, HCL Technology, Chennai 2018 16 08.05.2020 Webinar Mr Jagan Durairaj, Cloud Support Engineer, Amazon, Bangalore 2017 12 09.05.2020 Webinar Ms Shayalini Dhayalan, Application Developer Associate 2018 16 09.05.2020 Webinar Mr K.Manivannan, Softwar

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

SNS College of Engineering, under the chairmanship of visionary leader Dr. S.N.Subbramanian functions with the motto of "Service, Nobility Sincerity". Serving the society is a tradition at SNSCE. Our Correspondent Dr.S.Rajalakshmi is the mentor who guides takes the faculty members and students in the developmental path. Our Technical Director, Dr. S. NalinVimal Kumar guiding the team of Principal, HODs, faculty and students towards the vision of the institute. The governing council empowers the Principal to plan and execute the strategies approved by the council, through decentralized governance by delegating authority to all Deans, HODs, various administrative bodies, committees, and cells at various levels for better performance thus promoting a culture of participative management. The recommendations forwarded by various committees along with the feedback/suggestions of all stakeholders are given due importance during the decision-making process. HODs have operational autonomy in academic pursuits and decision making at the department level. The faculty members are given the responsibility of organizing various academic events and coordinating the professional society/club activities. The Class Advisors and Faculty mentor play a major role in effectively monitoring the student discipline and tracking their overall performances. Various extension activity units such as NSS, YRC, RRC etc., are playing a vital role in the holistic development of the students' community. Practices of Decentralization and Participative Management during last year: Academic Improvement and Curriculum Development: Academic decisions pertaining to the introduction, revision, and reformulation of courses and syllabi are taken by the Academic Council considering the feedback from all the stakeholders. The members of the Board of Studies, Research and Development Cell, and Program Assessment committee function in a coordinated manner to make decisions with respect to academic and research related issues. Improvement at programme level is possible when the programs are monitored based on the attainment of the programme outcomes as specified. Programme Assessment Committee and IQAC at the department level support the Head of the Department in executing academic and

administrative activities effectively. PAC and Department IQAC Coordinators are empowered to validate and assure the quality culture of the department in providing outcome based education. All department students, clubs, faculty, and the management joined hands together for the successful conduct of the event. Students and faculty in charge were assigned to every event. The events were managed by the respective committees from various departments.

1. Curriculum Development and Delivery: Decentralization is emphasized at our institution through empowering the departments and have the autonomy of analyzing and recommending their requirements on the curriculum and syllabus through the Programme Advisory Committee (PAC) constituted by the departments. It consists of internal faculty members and external academicians and industry members. Recommendation of this committee is kept for discussion and approval in the Board of Studies. Then finally presented to the Academic Council for final approval. The finally approved syllabi and curriculum are ratified in the Governing Council.

2. Academic Support: SNS Institution strongly believes in the participative management by including its stake holders in all decision making, strategy formulation, developing curriculum, and etc.,

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	Our institution has perspective plan for developing the students' approach towards their academic and has focus towards Design Thinking Approach. We have implemented Design Thinking Concept in which the students are taught to identify the industrial and societal problems through empathy and produce the innovative solution through Design Thinking. Our institution is first of its kind in India to introduce the Design Thinking Framework. Through the feedback collected from the stakeholders, the curriculum is revised periodically by the Programme Advisory Committee and sent to the Board of Studies and Academic Council respectively for further suggestions and approval.
Teaching and Learning	Teaching learning at our Institute is monitored by the Centre for Learning Teaching (CLT) and the Internal Quality Assurance Cell (IQAC). A well defined class room structure is followed by our faculty members with student-centric learning activities and project/ problem based learning. Students' progress on learning is being recorded in the AAA (Attendance, Assessment, and Audit) Record. Student-centric learning facilities such as SNS courseware, NPTEL or Video based presentations, ICT

enabled Class rooms, Online multiple choice questions, webinars and remote learning through online resources are created for students' access. We focus on the Innovative Areas of 7 industry verticals and 5 technologies for students' innovation.

Examination and Evaluation

Under autonomy, we give 3 Internal Assessment Examinations and an End Semester Theory and Practical Examinations. The evaluation process is made by the Examination Cell.. Faculty members and students are educated with this process through the hand book. All the circulars regarding IAEs and end semester examination are displayed in the notice board and in college web site. Every teacher is required to maintain a "AAA record (Attendance, Assessment Audit Record)" which consists of students' attendance, the topics covered, assessment marks through which the students attendance and evaluation marks are maintained. Assignments and Case study analysis are also given. The printed answer booklets are supplied to the students to write the Internal Assessment Test. Two sets of question papers are set based on Blooms taxonomy and are collected from question paper setters and anyone of the question paper is selected. The question paper set by the faculty is scrutinized by the Program Assessment Committee and it is approved by the HOD, Principal and Director for submission to Academic cell. The Hall and Seating plan are made following the same procedure as the End Semester Examination. The Central Evaluation is followed.

Research and Development

We have an exclusive "Centre for Creativity (CFC)" to support Research and Development in the institution. Teachers are motivated to apply for research funding and to take up industrial consultancy. Along similar lines students are motivated in new product development, patenting and incubating start-ups .Seed money fund of Rs. 1,00,000/- for one student and faculty has been provided annually. Teachers are motivated in Research paper presentation in National/ International Conferences is with a financial support of 50 registration fee. Proper incentives is provided to

faculty members who publish quality research papers in international journals..

Library, ICT and Physical Infrastructure / Instrumentation

The college Library has resource materials to strengthen and enhance the learning, teaching and research areas of the faculty and students. It has state-of-the-art infrastructure facilities to display the source materials and specific space for study and reference for the readers to have a happy learning. Our library services and ICT facilities include • Bar coded circulation (Issue, Return and Renewal) • Open Access System • Reference Service • Bar coded User Entry System • Web OPAC Service • Digital Library Service • Multimedia Resource Service • Internet Image Scanning Barcode Scanning • Audio - Visual service (LCD projector, Wide screen, More than 1836 CDs/DVDs, Wi- Fi Internet etc.,) • DELNET Access, Online Database Service (e-journals e-books) • NPTEL E-learning Facility • NDL Access. • The automation work gained momentum with accuracy by the provision of assistance from commercial software of CAPMPUS i LIB. • LIBRARY SPECIAL SERVICES / BEST PRACTICES • Book Bank Scheme • Skill and Career Development (SCD) Books • Current Awareness Service (CAS)

Human Resource Management

A well defined Human Resource Policy of the SNS College of Engineering facilitates its workforce to have a happy stay in the institution. Employees are motivated to work towards the vision of the institution with the autonomy and effective support systems. Staff members are recruited directly through online and offline mode recruitment processes. Employees are provided with benefits as per the norms. They are encouraged to attain their academic improvement and skills enhancement through permitting them to do their higher studies and undergo various certification programmes. Periodical Performance Appraisal of the Employees has been done systematically and they are rewarded suitably. As participative management is one among the best practices being followed in the Institution, our faculty members took active part in all decision making, academic and non-academic activities of the Institution. The

	Human Resources of the institution have been provided with good ambience to work.
Industry Interaction / Collaboration	Industry Interaction / Collaboration in our institution is very effective through students' industrial visits, seminars and guest lecturers from the industry experts. Many webinars have also been arranged through which students got their projects, internships and placements in the industry. Industry Institute Partnership Cell (IIPC) identifies the industrial expectation and promotes institutional preparation for meeting industrial needs by facilitating sponsored RD projects, seminars, workshops and various other industrial training programmes. Industry Institute partnerships reflects in equipping faculty to latest practices and makes the students industry-ready by providing exposure to current industry practices, and hone their skills to adapt changing technologies. The primary focus of IIPC is to interact with elite industries in and around Coimbatore, and extend the efforts in establishing partnership with industries across the country in near future.
Admission of Students	Admission the Engineering (UG) and PG (MBA/ME) are done through single window counselling conducted by Directorate of Technical Education (DoTE), Government of Tamil Nadu, Chennai.

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

E-governance area	Details
Student Admission and Support	E-Campus software has been utilised for the student admission and support purpose
Examination	SNSCE e-CoE software and Portal.snsce.ac.in used for students' attendance. The activities of the Office of Controller of Examinations (CoE) became vibrant thereafter in a confidential manner. The CoE office has state of art infrastructure facilities including Confidential Room, Strong Room, Dummy Numbering Room, Valuation Hall and Exam Conduction Center. The office is powered with latest CoE software to support all the activities in its versatility.

<p>Planning and Development</p>	<p>Bitrix Software is used for the Planning and Development of our Institution. Bitrix is collaboration software with complete tools for management, collaboration and communication which has been effectively utilised in our institution. SNS Courseware has been utilised for uploading our teaching course materials, lesson plans, lecture notes, videos, question banks and all other teaching materials.</p>
<p>Administration</p>	<p>Bitrix software is used in the administration area as well. The following day today activities have completed in an effective way. • Collaboration (chats, stream messages, polls, telephony integration, voice video calls) • CRM (leads, contacts, deals, invoices, web forms, sales reports, sales automation, open channels integration, website widget) • Project Management (tasks, subtasks, Gantt, kanban, dependencies, recurring tasks task time-tracking) • Document Management (file storage sharing, synchronization with local computer, integrations, workflows for document library) • Time Management (work time automatic calculation summary, work reports, shared calendars)</p>
<p>Finance and Accounts</p>	<p>E-Campus software and Tally software have been utilised for the Finance and Accounts area functions. Today, accounting software interoperates with Customer Relationship Management (CRM), supply chain management, human resource management, and dashboards and reporting applications. The accounting software is used to process and record all the financial transactions within functional modules such as accounts payable, accounts receivable, payroll, and trial balance.</p>

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
2020	Mr.S.Kamalakanan, AP/ECE	AICTE sponsored QIP Short Term Course "Recent	IIT, Varanasi	2250

		trends in Micro wave/Millimeter Wave Technology and their Application in Wireless Communication and Defense Perspective" , IIT, Varanasi		
2020	Ms.M.Bhagavathi priya, AP/ECE	Seminar on Explore the Research and funding opportunities in Europe,Vignan University, Guntur	Vignan University	1000
2020	Ms.P.Ramya, AP/ECE	Seminar on Explore the Research and funding opportunities in Europe,Vignan University, Guntur	Vignan University	1000
2020	Mr K.Aravindhhan	IEEE Scored 2019	UNIVERSITY TECHNOLOGY PETRONAS, MALYSIA	5000
2020	Ms.M. Sathiapriya, AP/ECE	AICTE sponsored QIP Short Term Course on"Micro controller architectures and hands on sessions on embedded systems" Indian Institute of Technology, Bombay	IIT Bombay	2250
2020	Ms.S.Saranya, AP/ECE	AICTE sponsored QIP Short Term Course on"Micro controller architectures and hands on sessions on embedded systems" Indian Institute of	IIT Bombay	2250

		Technology, Bombay		
2020	K.K.Rajkumar, AP/ECE	AICTE sponsored QIP Short Term Course "Recent trends in Micro wave/Millimeter Wave Technology and their Application in Wireless Communication and Defense Perspective" , IIT, Varanasi	IIT, Varanasi	2250
2020	Mr.M.Sathish Kumar	Second International Mechanical Engineering Congress,	National Institute of Technology, Tiruchirapalli	1500
2020	Dr.P.Saradham ani	National Conference on "Innovative Management Practices towards Business Excellence" in Koshy's Institute of Management on 16th Novemeber 2019, Bangalore, Tamil Nadu, India.	Koshy's Institute of Management, Bangalore.	250
2020	Dr.G.Maheswar an,	National Conference on "Innovative Management Practices towards Business Excellence" in Koshy's Institute of Management on 16th Novemeber 2019, Bangalore, Tamil Nadu, India.	Koshy's Institute of Management, Bangalore.	250
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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)
2020	Full Stack and DevOps	13	14/05/2020	14/05/2020	19	Nil
2020	Virtualization in Cloud Computing	12	07/05/2020	07/05/2020	24	Nil
2020	Importance of Cyber Security and Job Opportunities in Cyber Security	11	07/05/2020	07/05/2020	29	Nil
2020	Big Data Modeling and Management Systems	12	07/06/2020	07/06/2020	24	Nil
2020	Introduction to Cloud Computing and AWS	9	08/05/2020	08/05/2020	42	Nil
2020	Angular JS	14	09/05/2020	09/05/2020	26	Nil
2020	Computer Networks	12	09/05/2020	09/05/2020	28	Nil
2020	Java Essential in IT Industry	12	09/05/2020	09/05/2020	23	Nil
2020	MVC Architecture and Software Development Best Practices	14	09/05/2020	09/05/2020	12	Nil
2020	Python for Data Science	12	14/05/2020	14/05/2020	18	Nil

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Computer Networks	32	09/05/2020	09/05/2020	1
Angular JS	21	09/05/2020	09/05/2020	1
Introduction to Cloud Computing and AWS	24	08/05/2020	08/05/2020	1
Big Data Modeling and Management Systems	19	07/06/2020	07/06/2020	1
Importance of Cyber Security and Job Opportunities in Cyber Security	17	07/05/2020	07/05/2020	1
Virtualization in Cloud Computing	15	07/05/2020	07/05/2020	1
Computer Architecture	12	02/01/2020	30/04/2020	3
An Introduction to Artificial Intelligence	18	02/01/2020	30/04/2020	7
Introduction to Big Data	15	01/08/2020	01/08/2020	1
Object Oriented Analysis and Design	15	01/08/2019	30/10/2019	4
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
167	167	54	54

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> Seed money assistance from management to undertake minor projects. 	<ul style="list-style-type: none"> Medical Group Insurance and EPF Higher studies benefits 	<ul style="list-style-type: none"> Women Empowerment Scheme Anti -Ragging Cell Counselling Cell

<ul style="list-style-type: none"> • The college offers 50 of the registration fee for faculty who are presenting the papers in national International Conferences. - Rs.1500 and Rs.1000 cash award for paper presented in International and National Journals. • Group Medical Insurance • EPF • Faculty exchange Programme, • Medical leave and Maternity leave • Supporting for education of the children of the teachers in the group institutions • Medical Support • Marriage gift with the sanction of leave • Family Get - together 	<ul style="list-style-type: none"> Staff club • Family Get - together • Staff club 	<ul style="list-style-type: none"> Students Grievance Cell • Prevention of Sexual Harassment Cell • Medical Insurance • Fee waiver schemes for poor students and meritorious students. • Executive Lounge • SPINE
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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)

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

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Athivinayagar Wires(p) Ltd,Coimbatore	517540	Characteristic Compressive Strength of Concrete Specimen and Gradation of Fine Aggregate
View File		

6.4.3 – Total corpus fund generated

20469000

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	Dean/Heads	Yes	Dean, Heads

		from Reputed Institutions		and Senior faculty members
Administrative	Yes	Dean/Heads from Reputed Institutions	Yes	Dean, Heads and Senior faculty members

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

1. Mentoring session 2. Parents meeting - once in a semester 3. Students achievement discussion Parent teachers meetings are conducted to have a platform to Interact with students, parents and teachers. These meetings help in improving the holistic development of the students. 4.. 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. 5.. Parents suggest the ways and means for the development of the college during parents Meeting. 6. Educative programmes for parents are offered through these kinds of gatherings. Parents are oriented on online fee payment system, usage of online education, handling of present day youth. 7. A feedback form is received from the parents related with the syllabus offered and suggestions are received to improve student - Parent and teacher relationship. 8. Alumni parents are invited for giving guest lectures, special talks and internship to the students. 9. 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. 10. Parents are members in Anti ragging committee and Grievance committee.

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

The Staff Development Program (SDP) supports employee development by providing partial or full reimbursement of the cost of courses, seminars, and workshops that enable employees to improve performance in current jobs, prepare for career development, or meet requirements of degree programs related to current performance or planned career development. 1. Full Sponsored training Program in Industry to improve/introduce the teaching and learning methodology 2. Partial Staff development support program to provide financial assistance for staff who attend/publish papers in conferences/journals. 3. Special Leave for pursuing/completing their higher studies Technical staff has attended programmes related to computer operations and skill developments like personality development and work life balance. Staff have attended Productivity Enhancement Programme

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

Induction Program - Faculty - An Orientation program for the newly joined faculty One -Day Training Session on Blooms Taxonomy NPTEL Local Chapter -Advantages Online Student Feedback System from various Stakeholders Hackathon- a Continuous online assessment process

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
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2019	NPTEL Local Chapter -Advantages	02/09/2019	02/09/2019	02/09/2019	55
2019	Swatch Bharath - keeping the surroundings clean was initiated Designing Graduate Attributes for all the programs	28/09/2019	28/09/2019	28/09/2019	22
2020	Online Student Feedback System from various Stakeholders	05/01/2020	05/01/2020	05/01/2020	152
2020	Workshop on Intellectual Property Rights	20/02/2020	20/02/2020	20/02/2020	160
2020	Hackathon- a Continuous online assessment process	30/03/2020	30/03/2020	30/03/2020	145
2019	Induction Program - Faculty - An Orientation program for the newly joined faculty	01/06/2019	01/06/2019	06/06/2019	50
2019	One -Day Training Session on Blooms Taxonomy	23/06/2019	23/06/2019	23/06/2019	96
2020	MOOC- opportunity to learn new skills and expand their knowledge base	05/07/2020	05/07/2020	05/07/2020	56
2020	New assessment m ethodologies	05/07/2020	05/07/2020	05/07/2020	48

like Group presentations, Quiz, Home Assignment and Online tests

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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
Creating a Happy Working Environment	10/08/2019	10/08/2019	20	31
Women in social media	04/10/2019	04/10/2019	14	37
Social - IOT	27/08/2019	27/08/2019	62	90
Current Trends in IT Field	04/10/2019	04/10/2019	35	72
Ethical Hacking	01/10/2019	01/10/2019	23	57
Digital Marketing	04/10/2019	04/10/2019	14	37
Data science and artificial intelligent	03/01/2020	03/01/2020	62	90
Awareness programme on Women's Health	09/07/2019	09/07/2019	40	50
Awareness programme on Women's Rights	12/08/2019	12/08/2019	120	80
Empowering Women by Creating Awareness	05/09/2019	05/09/2019	55	25
Importance of Financial Independence	10/01/2019	10/01/2019	66	33
Woman's day celebrations-Seminar "Accede to changes"	08/03/2019	08/03/2019	80	25
Seminar on Women	04/03/2019	04/03/2019	78	25

Empowerment

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

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

23

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil

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	12	1	07/08/2019	1	Seminar on Proposal writing	Opportunity for obtain grants	60
2019	12	1	18/09/2019	1	Tree Planting Program	Environmental Awareness	60
2019	12	2	19/06/2019	1	Temple Cleaning activity in the Neighbourhood	Cleaning work	490
2019	12	4	07/10/2019	1	Road side cleaning Programme	Hygienic Environment	375
2019	12	1	20/08/2019	1	Computer Education to Home Makers	Employability for women	27
2019	12	2	23/10/2020	1	VBA-Health Awareness	Women and child health	490
2019	12	4	08/02/2019	1	Awareness of MSME Schemes	Opportunity for Business	65
2019	12	2	09/03/2019	1	Environmental Safety Seminar	Promote Clean and green environment	67

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
<p>Students Calendar (Handbook for Students) consists of Code of Conduct for 1. Students in College 2. Students in Hostel 3. Parents</p>	<p>13/06/2019</p>	<p>All the stakeholders are informed about the code of conduct at the starting of the year. Students who indulge in any form of misconduct can be resolved directly by the faculty or instructor. If a professor or instructor determines that a student has engaged in classroom/field misconduct, he/she may raise the problem to the concerned Head of the department. The same issue can be brought to the knowledge of the Principal if needed. To monitor the overall performance of the student's 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 to attain the targets. He records the accomplishments of their academic performance and participation in club activities and any other initiatives. In order to improve the academic performance of the students and to groom them in all aspects Tutor Ward meeting, collaborative meeting and class committee meeting is being conducted regularly every fortnight.</p>
<p>Staff Policy Book (Teaching and Non Teaching</p>	<p>22/06/2019</p>	<p>Staff policy book describes all the activities to be carried out by the faculty members and various benefits during the service. It is prepared</p>

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
Republic Day Celebration	26/01/2020	26/01/2020	200
Womens Day Celebration	03/08/2020	03/08/2020	350
Van Mahotsav Day	07/05/2020	07/05/2020	60
Workshop on Importance of Anti-ragging	17/08/2019	17/08/2019	65
Workshop on road safety awareness	08/02/2019	08/02/2019	66
Seminar on importance of Tree planting.	08/01/2019	08/01/2019	62
Yoga Day Celebrations	21/06/2019	21/06/2019	56
Faculty development Programme on "Conventional English for Teacher"	29/11/2019	29/11/2019	42
Faculty Development Programme on "Active learning Strategies for School Teacher	26/11/2019	26/11/2020	33
Python Programming for the XII Computer science department students	29/11/2019	29/11/2019	25

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

The following Green Practices are practised in the campus : a) Use of Bicycles by students b) Public Transport c) Plastic free campus d) Paperless office e) Green landscaping with trees and plants i) Plastic-free campus The College has i) Solid Waste Management System ii) Rain Water Harvesting iii) Sewage Water Treatment Plant iv) Solar Energy Station v) LED Lamps vi) CCTV Cameras vii) Ecological balance maintained in the campus viii) Green audit, Energy Audit and Environment Audit conducted regularly. ix) 200 saplings, 380 plants and 290 trees are planted and maintained in the campus. x) Vehicle pooling is encouraged in the college. xi) The e wastes are disposed through specialized dealers. • xii) Dustbins are kept in many places for clean maintenance of the campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice-I SNS Innovation Hub(SNS IHUB) SNS-IHUB provides hands on operational support for commercial grade product development assistance with designing, rapid prototyping and design for manufacturing support. We provide expertise in translating working prototypes into impactful and marketable products/solutions. Mentors are drawn from diverse industries and reputed academia. They provide the necessary business and technical acumen needed to transform the start up into a successful business unit. Based on the need suitable domain experts will be identified by the team and linked to the incubates. SNS iHub offers a host of online offline knowledge that is accessible for all the incubates and students. The use of Design thinking approach and tools like business model canvas(BMC), brain storming sessions, workshops, seminars, help the incubates to equip themselves in achieving their goals. SNS institutions has 587 active MOU's with industries to provide the network required for the incubates. iHub dips in to these resources to bring the right connect to the incubates. The iHub Team participates in leading networking events hosted by CII, TiE, NASSCOM, NHRD, NIPM and other reputed bodies to identify new mentors. The incubates are also exposed to a network of external experts during such events Outcome of SNS- IHUB 1278 PROJECT 587INDUSTRIES 21TRAINERS 49 PATENTS 48 STARTUPS 987 ACTIVE STUDENTS Best Practice II (ii)THE CLUB OF EXCELLENCE The club aims to motivate, mould and direct the thinking process in various fields. It builds a core team of independent thinkers and encourages them to do research. It encourages the students to participate in novel thought processes and to raise the standards of creativity and problem-solving. • TEDx SNSCE • FINESSE • Women's Day ECO AND TREKKING CLUB The club has its idea to develop an awareness and interest in the natural environment among its members and the community through meetings, talks, workshops, study groups, field trips. It also pro motes the preservation of the environment. MUN CLUB MUN (MODEL UNITED NATIONS) is an educational simulation and/or academic competition in which students can learn about diplomacy, international relations, and the United Nations. This being the general idea of MUN, our college MUN motivates the students to think of the issues prevailing throughout the world and encouraging them to discuss and find solutions in a parliamentary method. YOGA CLUB Yoga has been practiced in India for centuries as a way of freeing the mind, body spirit. This club aims to provide guidance for Life Management which includes relief from health ailments, for a stress free life and for general fitness. TAMIL MANDRAM • To preserve the tradition and culture of Tamil. • To encourage and develop inborn capabilities of each student and to make them believe that nothing is impossible. • To inculcate the values and beauty of our mother tongue (Tamil) to the students. LITERACY CLUB Termed in our college as SMILE (Space to Meliorate Innate Love for English) inculcates among students a fondness for language and enhances their literary skills through various competitions. MATH CLUB The club provides students with an opportunity to practice and develop their Mathematical skills and develops their confidence thus promoting scholarly activity in Mathematics. MUSIC CLUB It caters to the musical interest of the student body. They take part in both classical and light musical compositions. The club encourages students to learn and grow through musical performances. FINE ARTS CLUB Promotes and encourages students who love painting, photographing, designing, and other artistic skills to come together and give expression to their thoughts and ideas. DANCE CLUB It caters to the dance interest of the student body. The club encourages students to learn and grow through their passion towards dancing. READERS CLUB To get students together to employee various aspects of language, communication skills and life styles through books, articles, movies and interviews.To create contests to explore students in the above given aspects to kindle their interest in various fields and language skills.To foster the enjoyment of reading, as a

recreational activity among students SNSCE SAE INDIA COLLEGIATE CLUB SNSCE SAE INDIA COLLEGIATE CLUB provides platform for the students to apply / enhance their knowledge in the field of automation by making them participate in various national level competitions such as Mini dirt bike racing, Efficycle, BAJA and SUPRA etc., We also help the students to develop their leadership abilities by organizing various inter-college events and workshops. PHOTOGRAPHY CLUB To promote creativity through photography, to share and critique the photographs of peers, to educate and improve technical skills, and to spread the love of photography throughout the SNS community. BIKERS CLUB To promote and encourage the passion for biking among students. Outcome: Number of participation in co curricular and Extracurricular activities have improved and in turn improvements in placements Outcome: Number of students have Participated co curricular activities : 1625 Number of Students have Participated Hackathon : 348 Percentage of Placement : 93.5

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

<https://bitrix24public.com/sns.bitrix24.com/docs/pub/66a9fc41ada17e8cafddf96090alc69f/default/?&>

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

7.3 Institutional Distinctiveness Our primary concept is Design Thinking, where this approach to education provides the students to have the academic freedom to understand complex problems and principles through engaged learning activities and helps nurture progressive minds. With leading-edge faculty and remarkable alumni, we are committed to provide students with a challenging and relevant education for developing them to have an impact on the world and solve the most pressing social issues of our nation. The college endeavours to impart high quality, competency based technical education in Engineering and Technology to the younger generation with the required skills and abilities to face the challenging needs of the industry around the globe. This institution is also striving hard to attain a unique status in the international level by means of infrastructure, state-of-the-art computer facilities and techniques. As part of realizing this, the institute is focusing on improving ICT enabled teaching and learning process. The institution also ensures the provision of state-of-the-art hardware and software infrastructure required for the effective operation of ICT tools. The entire campus and all the learning environments are sufficiently equipped with resources for smooth operation of the system. The institution has enough computers, laptops, projectors, routers etc. It also has connectivity with enough bandwidth in the entire campus. Industry associated labs have set up jointly with industry provide direct exposure to the students and faculty to educational versions of many commercial software used in these industries. The institution has started data analytics on the various teaching learning initiatives as well gaining deeper insights into teaching learning process in the digital era. This will be further leveraged to enhance the teaching learning experience in the campus. Autonomous status helps us to introduce new curriculum with subjects to meet industry needs and value added programs. Internships made mandatory for all undergraduate students. Students are also engaged with life skill management programs through various club activities. Digital learning is a type of learning that is accompanied by technology or by instructional practice that makes effective use of technology. It encompasses the application of a wide spectrum of practices including: blended and virtual learning. Institution also has the practice of engaging students through Google classroom WebEx and zoom. Students are provided with opportunity of doing certificate courses through

NPTEL, COURSEERA and NASSCOM. Number of Video lectures created : 368 Number of Online courses completed by Faculty : 215 Number of Online courses completed by Students : 530 Industrial Associated lab :08 Number of students undergone internships/Inplant Training : 1550

Provide the weblink of the institution

<https://bitrix24public.com/sns.bitrix24.com/docs/pub/2c4590b7b6420f047ed7666f6f1dccaaf/default/?&>

8.Future Plans of Actions for Next Academic Year

Institute has been initiating and implementing various activities to assure and improve quality in the different aspects of academics, co curricular and extracurricular activities, faculty development. Institute is focusing to give social exposure to students and faculty by conducting extension activities • Non - accredited Programs to apply for NBA. • Get NIRF and ARIIA ranking. • Organize more number of entrepreneurship development programmes. • To introduce Industry Integrated courses specializing in Artificial Intelligence, Data Analytics, IoT, 3D Printing and AR/VR. • To inculcate modern teaching pedagogy using advanced ICT tools (Moodle, Kahoot, Hot Potato, Plickers and Google Classroom). • To Educate the students to use resources available in MOOC portals such as NPTEL, Course era, Udemy to have lifelong learning processes. • To establish Center of Excellence in few areas such as Robotics and Automation and AR/VR. • To create research culture among faculty members and students and motivate them to publish their research work in Scopus/ web of science indexed Journals. • To encourage the students and faculty members to publish more patents/copyrights for their innovations. • To enrich the Academic partnership with leading Industries like Infosys, IBM, and Google, Texas Instruments etc. • To generate more revenue through consultancy to the Industry and Public Organization. • To imbibe values and ethics among students by regularly having moral talks, Social responsibility activities etc. • To establish a holistic learning environment with academics, co curricular activities, sports, etc. • To increase more number of innovative projects and start ups. • To enhance students placement with higher package in dream corporate. • To increase the number of collaborative research and consultancy with industries. • To stabilize the faculty strength on par with the expectation of industry requirements. • Intensive training for preparing students for competitive examinations. • To promote entrepreneurship and innovation through skill development. Institute has developed "Entrepreneurship Development Cell" and planning for enhanced activities in this area. Skill development will be the focused area for enhancing employability of students. • The institution plans to host a set of international conferences in the upcoming year. The objective of these research based forums will be to serve as inter-disciplinary and multi-disciplinary avenues for exchange of business ideas, best research practices and research outcomes, for the benefit of the corporate professionals, industry practitioners, academicians and researchers at large. • Research workshops and special sessions are also being organized with the intention of familiarizing individuals with the latest developments pertaining to research methods, technological evolution and research paper writing, thereby aiming at increasing the intellectual output of the institution. • Planned to firm up association with industry by signing MoU for formal collaboration. More focus through interaction with industry will be to motivate students for industry sponsored projects, for industrial internships. • Establishing students' exchange program with foreign universities Improving the combined metric for Placement and Higher Studies and Increasing the median salary of students getting placed o Increasing the success rate of students in competitive examination.