Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**SONA COLLEGE OF TECHNOLOGY**
Name of the head of the Institution	**Dr S R R Senthil Kumar**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**0427-4099999**
Mobile no.	**9443366495**
Registered Email	**iqac@sonatech.ac.in**
Alternate Email	**principal@sonatech.ac.in**
Address	**JUNCTION MAIN ROAD, SURAMANGALAM PO**
City/Town	**Salem**
State/UT	**Tamil Nadu**
Pincode	**636005**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**04-Apr-2017**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. P. Suresh**
Phone no/Alternate Phone no.	**04274099888**
Mobile no.	**9443227627**
Registered Email	**suresh_p_g@sonatech.ac.in**
Alternate Email	**iqac@sonatech.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	**https://www.sonatech.ac.in/IQAC/AQAR%202018-2019.pdf**

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	**http://www.sonatech.ac.in/downloads/calendar-2019.pdf**

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.21**	**2012**	**15-Sep-2012**	**14-Sep-2017**
2	**A**	**3.16**	**2018**	**02-Nov-2018**	**01-Nov-2023**

6. Date of Establishment of IQAC	**20-Nov-2012**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Lateral Thinking for	**28-Feb-2020**	**118**

Creativity	1	
ISO:14001 : 2015 Environmental Management Systems	24-Feb-2020 1	19
Guest lecture on TQM in Educational Institutions for Continuous Quality Improvement	13-Feb-2020 1	38
Workshops on Strategic Planning	13-Jan-2020 1	30
Managing Unpredicted Situations in Journal Publications	12-Jul-2019 1	113
QMS - AWARENESS PROGRAMME - 2019	12-Jul-2019 1	35
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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
Electrical and Electronics Engineering, Dr. S. Chandrasekar	AGRO TECH	DST	2019 730	6154000
Electrical and Electronics Engineering, Dr. S. Padma	MODROBS	AICTE	2019 730	900000
Electronics and Communication Engineering, Dr. R. S. Sabeenian	MODROBS	AICTE	2019 730	1084000
Information Technology, Dr. J. Akilandeswari	MODROBS	AICTE	2019 730	900000
Information Technology, Dr. J. Senthilkumar	MARGDARSHAN	AICTE	2019 730	3000000
Master of Business Administration, Dr. D. Immanuvel	Corporate Training	JSW Steels Limited	2019 5	398000
Civil Engineering , Dr.M.N.A	Students project Scheme	TNSCST	2020 180	5500

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Electronics and Communication Engineering, P.Vivek karthik	Students project Scheme	TNSCST	2020 180	7500

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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**5**
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 File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

1. Achieved the Best industry linked institution 2. Teaching and Learning with the use of ICT Tools 3. Improvement in Research Publications 4. Increase in MoU with Industries leads to good Placement and internships 5. Implementation of Seed Money scheme

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

Plan of Action	Achivements/Outcomes
To prepare and submit the AQAR	AQAR submitted on 31st Dec 2021 for the academic year 1920 (Due to pandamic the time of the submission is extended)
To conduct internal and external ISO audit	Two internal audits were conducted during Jan and June 2020. The external audit conducted during July 2020.
To implement the web based version of existing intranet MIS	We have implemented the Web based version called SONASOFT during Jan 2019
To reduce the Paper Per Person	We have introduced the ERP system during Aug 2019

To submit AISHE survey	We have submitted the AISHE in March 2020
Alumni - Industry Interactions with Students	Mock Interview for placement conducted through Alumni Cell. Departments arranged webinars for students involving Alumni as resource person
To introduce new UG and PG program for the year	We have introduced UG Biomedical Engineering and PG Wireless and Mobile communication
To conduct Research Advisory Borad (RAB)	We have conducted the RAB during Dec 2019
Plan to conduct academic council meeting twice the year	Academic council meeting conducted July 2019 and Feb 2020
Plan to conduct Governing body meeting twice the year	Governing body meeting conducted during July 2019 and Feb 2020
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Body Meeting	17-Feb-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	**2020**

Date of Submission	**03-Feb-2020**

17. Does the Institution have Management Information System ?	**Yes**

If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**Management Information System (MIS) The MIS, a Centre for Software design, accomplishes a task of developing a holistic Education Management Information System in Sona College build digital environs with a sense of appropriateness and coherence for all the stakeholders of the college. The objective is to provide an extensive support in the capture, processing, storage and retrieval of relevant, up to date and demand driven data and information for management functions**

including, Policy planning and implementation, Decision making, monitoring and evaluation of the education system, and follow up on the daily activities of each major entity in a streamlined, systematic and timely manner. All of the data at Sona, especially those related to resources, quality processes, students and faculty, placement, hostels, etc. are operated through the MIS. MIS system in its current form is robust enough and operates according to a welldefined logic, methodology for varied distinct purposes. The automated MIS modules is used for a host of functions, which are listed below: 1. Admissions 2. Student Registration 3. Students 4. Fees 5. Examination 6. Online Assessment 7. Academics 8. Staff 9. Student Feedback 10. Student Performance 11. Faculty Record Book 12. Placement 13. Faculty appraisal 14. Attendance Management 15. HR Management 16. Hostels 17. Events 18. Dispatch 19. Security 20. SMS based services 21. Sona Times – News bulletin 22. Resource Maintenance 23. Standard Reports Generation 24. Sona QMS and Quality Manual 25. Third Party Integration 26. AdHoc Report Generation Appropriate data flow mechanisms and channels are applied to promote the exchange of derived upto date information among the stakeholders. Regular data and source backup facilities are maintained. All the data and information are maintained as a history for further references.

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	101	Civil Engineering	15/05/2020
ME	209	Structural Engineering	15/05/2020
ME	211	Construction Engineering and Management	15/05/2020
BE	102	Computer Science and Engineering	13/12/2019
BE	102	Computer Science	15/05/2020

Programme	Code	Specialization	Date
ME	201	Computer Science and Engineering	13/12/2019
ME	201	Computer Science and Engineering	15/05/2020
Mtech	213	Data Science	13/12/2019
Mtech	213	Data Science	15/05/2020
BE	104	Electrical and Electronics Engineering	12/11/2019
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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	Civil Engineering	24/06/2019	U15CE701R Construction Management	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE702R Earth Quake Resistant Structures and Management	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE919R Prestressed Concrete Structures	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE920R Advanced Design of Steel Structures	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE923R Traffic Engineering and Management	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE921R Bridge Engineering	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE927R Water Resources and Irrigation Engineering	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE703R Estimation and quantity surveying	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE704R Design Project	24/06/2019
BE	Civil Engineering	24/06/2019	U15CE705R Internship	24/06/2019

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Biomedical Engineering	12/06/2019
Mtech	Data Science	25/05/2019

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	Civil Engineering	08/07/2019
ME	Structural Engineering	08/07/2019
ME	Construction Engineering and Management	08/07/2019
BE	Computer Science and Engineering	08/07/2019
ME	Computer Science and Engineering	08/07/2019
Mtech	Data Science	08/07/2019
BE	Electrical and Electronics Engineering	08/07/2019
ME	Power System Engineering	08/07/2019
ME	Power Electronics and Drives	08/07/2019
BE	Electronics and Communication Engineering	08/07/2019
BE	Bio MedicalEngineering	08/07/2019
ME	VLSI Design	08/07/2019
BTech	Fashion Technology	08/07/2019
BTech	Information Technology	08/07/2019
Mtech	Information Technology	08/07/2019
BE	Mechanical Engineering	08/07/2019
ME	Engineering Design	08/07/2019
ME	Industrial Safety and Engineering	08/07/2019
BE	Mechatronics Engineering	08/07/2019
MCA	Master of Computer Application	08/07/2019
MBA	Master of Business Administration	08/07/2019

ME	Software Engineering	08/07/2019
ME	Product Design and Development	08/07/2019
ME	Communication Systems	08/07/2019

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
Japanees Language	15/06/2019	57
PLC, SCADA and VFD	23/07/2019	118
TCS Phase 2 Training	25/07/2019	40
Aptitude Training Phase 2	13/08/2019	75
Data Structures and Java Training Program	02/12/2019	34
Training on InfyTQ Modules	30/01/2020	60
Competitive Programming Skills	31/01/2020	15
AI Demystified for a comprehensive learning	04/12/2019	35
IOT in Embedded systems its applications	09/12/2019	30
Industrial applications of Python	02/12/2019	50
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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	Civil Engineering	137
ME	Structural Engineering	21
ME	Construction Engineering and Management	23
BE	Computer Science and Engineering	348
ME	Computer Science and Engineering	6
BE	Electrical and Electronics Engineering	139
ME	Power Electronics and Drives	4
ME	Power Systems Engineering	15
BE	Electronics and Communication Engineering	331

ME	VLSI Design	3

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The curriculum is made vibrant by the involvement of the stakeholders and experts in the concerned field of studies. The revision and redesign of curriculum is based on the data collected from Internet (National International websites), Professional Society (IEEE, IETE), IIT's and other reputed universities, recent developments and feedback from stakeholders (students, parents, Alumni, Industry experts and Academicians). Feedbacks are obtained from the various stakeholders through interactions / questionnaires / interviews / meetings. Feedback such as Course end surveys exit surveys are received from students, alumni surveys received from alumni during alumni meetings helps in re-framing the curriculum and syllabus in relevance to the needs of the sector and industry. Employer surveys received from recruiters are taken into account to identify the gaps and improve the curriculum of the programme and syllabus is revised according to industry expectations. Parents feedback is considered for improving the infrastructure and teaching-learning process followed in the department. The sub-committees are formed in all departments and they shall be involved in the development of the curriculum and syllabi for the foundation courses in the areas of Humanities and Sciences (including English and Management), Basic Sciences, Mathematics, Engineering Sciences and Soft skills Aptitude. Feedbacks are reviewed and discussed at the department level by the DCC members during DCC meeting and it is also reviewed by the sub-committee members too. Based on the feedback Relevant and innovative suggestions related to the courses, addition of title in a course and addition of new course are considered for inclusion in the curriculum and syllabi. The finalized curricula and syllabi of various semesters in a department will be presented and discussed in the Board of studies (BOS) meetings. The BOS comprises of Chairperson of BOS concerned - HOD, Internal faculty members, University nominees, Industry experts, Academicians, Alumni and students. The recommendation given in the BOS meetings will be approved in the Academic Council meeting conducted twice in an academic year. The Academic council comprises of Principal, all head of departments, three university nominees, industry experts and academicians. The Academic council shall approve the academic regulations, curricula, syllabi and modifications, instructional and evaluation arrangements, methods, procedures etc relevant to academic and research area. The Academic council approval shall be presented in the Governing body meeting of the college conducted twice in an academic year. The Governing body comprises of Chairman of the college, management members, senior faculty members of the college, industry experts, state government nominee, university nominee and UGC nominee. The approval given by academic council shall be presented, discussed and approved in the governing body for effective implementation of the same. The curricular aspects based on industry needs will be highly useful for career growth of the students in a better manner.

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	Mechanical engineering	180	198	143
BE	Electrical and Electronics Engineering	120	139	100
BE	Electronics and Communication Engineering	150	193	140
BE	Computer Science and Engineering	180	251	193
BE	Civil Engineering	120	111	66
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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	3938	638	216	67	28

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	Numberof smart classrooms	E-resources and techniques used
311	311	20	70	Nill	12
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)

In Sona College of Technology, during their four (two for PG) years' journey through the programme, students often need mentoring, guidance, and counselling from a senior person. Obviously, a student should have the same mentor all through his/her journey. A similar system as discussed above, namely 'Faculty Advisor' exists in this college. To improve the institute's present endeavor towards academic quality up-gradation in line with NBA guidelines, it has become necessary to redefine/reform the existing system. The new system, when practiced diligently will immensely contribute to the improvement of the overall academic quality. The students will be greatly benefited by continuous expert guidance. Each faculty will be the mentor of a group of 10 to 15 students. First year students will have mentors from the department of Basic Engineering, Science Humanities

and second, third, fourth year students will have mentors from the parent department. Departmental faculty members will continue to be mentors for the same group of students till the completion of their programme. The objectives of the practice followed by the institute are to: ? Monitor the student's regularity discipline ? Enable the parents to know about the performance regularity of their wards. ? Improve teacher-student relationship ? Counsel students to provide confidence to improve their quality of life. ? Guide students to choose a right career path for job, higher studies, entrepreneurship, etc. The mentor will be responsible for the following functions. The list of activities need not be restricted to the following points. A mentor can always do more for the benefit of the students. 1. Meet the group of students at least twice a month. 2. Continuously monitor, counsel, guide and motivate the students in all academic matters. 3. Advise students regarding choice of electives, project, summer training etc. 4. Contact parents/guardians if situation demands e.g. academic irregularities, negative behavioral changes and interpersonal relations, detrimental activities etc. 5. Advise students in their career development/professional guidance. 6. Keep contact with the students even after their graduation. 7. Intimate HOD and suggest if any administrative action is called for. 8. Maintain a detail progressive record of the student. 9. Maintain a brief but clear record of all discussions with students. 10. Identify Strengths, and build up a career based on the strengths Identify Weaknesses and consciously correct them Identify Opportunities for good placement, and training him to correct weaknesses and develop the required soft skills, moral values, etc… The mentoring process is reviewed by the respective department heads and principal at regular intervals. This mentoring is for the overall development of the student. Faculty advisor meets the students frequently and discusses various issues including classroom lectures, laboratory performances, participation of seminar / conferences and technical event, any academic difficulty faced and career development.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
4576	311	1:15

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
273	311	Nill	20	134

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
2019	Dr.D.Jagatheeshwaran	Professor	Received Research Peace Award from RULA Awards on August 2019
2019	Dr.P.Manikandan	Associate Professor	Received Best Faculty Project from Dr.Abdul Kalam Educational Trust for Tribal October 2019
2019	Dr.R.Gayathri	Assistant Professor	"Best Engineering College Professor" for Thannigaratra Tamizhan award Association of Magazines, Pondicherry jointly organized by Poremunai and Anjal

2019	Dr.M.E.Paramasivam	Assistant Professor	Today on 7.12.19 BVK Sourshtrian Acheiver award 2019 from BVK foundation
2019	Dr.R.S.Sabeenian	Professor	"IETE Achievement Award" for Outstanding Research and Academic Activities by IETE, on 2nd November 2019.

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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	101	7/4	29/11/2019	10/01/2020
BE	102	7/4	29/11/2019	10/01/2020
BE	103	7/4	29/11/2019	10/01/2020
BE	104	7/4	29/11/2019	10/01/2020
BE	105	7/4	29/11/2019	10/01/2020

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

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
136	4576	2.97

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://www.sonatech.ac.in

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
101	BE	Civil Engineering	137	92	67.2
102	BE	Computer Science and Engineering	166	155	93.4
103	BE	Electronics	164	132	80.5

104	BE	Electrical and Electronics Engineering	131	114	87.0
105	BE	Mechanical Engineering	201	161	80.1
			[View File](#)		

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://www.sonatech.ac.in/IQAC/student-satisfaction-survey-2020.php

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. S. Mahalingam
[View File](#)

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	Dr. C. Saravanan	Fellowship	30/06/2019	Institute of Advanced Energy, Kyoto University Uji, Kyoto 611-0011, Japan
International	Dr. A P. Uthirakumar	Brain pool programme	21/10/2019	National Research foundation of Korea
		[View File](#)		

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	1092	Department of	46.05	5

Projects		Science Technology (DST)		
Major Projects	730	Department of Science Technology (DST)	47.09	6.63
Major Projects	730	Department of Science Technology (DST)730	61.54	49.06
Major Projects	730	All India Council for Technical Education (AICTE)	9	7.2
Major Projects	730	All India Council for Technical Education (AICTE)	10.84	8.67
Major Projects	730	Department of Science Technology (DST)	79.13	7
Major Projects	1092	Department of Science Technology (DST)	56.35	6
Major Projects	1092	Department of Science Technology (DST)	76.87	10
Major Projects	730	All India Council for Technical Education (AICTE)	9	7.2
Major Projects	730	All India Council for Technical Education (AICTE)	30	15
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

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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

IPR workshop	College Level	25/11/2019	
Implementing IT tools in Manufacturing"	Mechanical Engineering	26/07/2019	
NDT scope for Mechanical Engineering in Industry	Mechanical Engineering	30/07/2019	
HVAC Systems in MEP	Mechanical Engineering	05/08/2019	
Energy Conversation Management	Mechanical Engineering	20/08/2019	
Awareness Programme on higher studies and Research	Mechanical Engineering	21/08/2019	
Advanced Materials: Synthesis, Characterization and Applications	Mechanical Engineering	25/09/2019	
Geometrical Dimensioning and Tolerance	Mechanical Engineering	04/10/2019	
Transports – Tunnel Construction in MEP	Mechanical Engineering	13/09/2019	
Opportunities in Japan	Mechanical Engineering	19/09/2019	

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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
Low cost and smart cooling syterm for fruits and vegetables	S.Suryakumar	Sona, IIC MHRD	15/10/2019	Best Student for innovation
An Intelligent Eye for Visually Impaired People	ISTE - Manakula Vinayagar Institute	ISTE Tamilnadu Section	18/12/2019	Best Student project
Smart India Hackathon -2019	Sindhu Shrestha Deepika Gurung Preetha Shri Pragadeesh Rv. Rajesh Raju Nagarjun Sankar	IIT, Kharagpur	01/03/2019	Student
Smart India Hackathon -2020	Suvetha S	Nodal Centre of Techno India University, West Bengal (Ministry of Agricultural Co-operation and farmer welfare)	01/08/2020	Student
Best Student		Indian	08/08/2019	Best Student

Award	P.Neelashkumar	Society For Technical Education (ISTE) Chapter Tamil Nadu Section		
International Internship	Muskan Agarwal	Swinburne University of Technology, Melbourne , Australia	28/06/2019	Internship
International Internship	A. KungumaSwetha	Swinburne University of Technology, Melbourne, Australia	28/06/2019	Internship
IMPATHON (Image Processing Hackathon) , First Prize	Nandanavanam Venkata Sai Kausik	SONASIPRO in collaboration with School of AI	11/10/2019	Hackathon
IMPATHON (Image Processing Hackathon),First Prize	Kalaiyarasan S	SONASIPRO in collaboration with School of AI	11/10/2019	Hackathon
IMPATHON (Image Processing Hackathon),First Prize	Muhilraaj A R	SONASIPRO in collaboration with School of AI	11/10/2019	Hackathon
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Sona Business Incubation Center	Nishant S	Sona College of Technology	M/s NPT Creators	Manufacturing	25/05/2020
Sona Business Incubation Center	Kavichelvan S	Sona College of Technology	M/s SGT Shopping Mart	Services	21/08/2019
Sona Business Incubation Center	Vishnuraj Saravanan	Sona College of Technology	M/s BOSS	Services	15/08/2020
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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

Mechanical Engineering	3
Electrical and Electronics Engineering	10
Electronics and Communication Engineering	4
Fashion Technology	3
Computer Science and Engineering	7
Civil Engineering	1
English	1
Mathematics	4
Master of Computer Application	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Mechanical Engineering	1	0
International	Mechanical Engineering	Nill	0
National	Electrical and Electronics Engineering	Nill	0
International	Electrical and Electronics Engineering	Nill	0
National	Electronics and Communication Engineering	Nill	0
International	Electronics and Communication Engineering	Nill	0
National	Computer Science and Engineering	Nill	0
International	Computer Science and Engineering	Nill	0
National	Information Technology	Nill	0
International	Information Technology	Nill	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
Mechanical Engineering	28
Electrical and Electronics Engineering	74

Electronics and Communication Engineering	27
Computer Science and Engineering	6
Information Technology	2
Civil Engineering	2
Fashion Technology	4
Mathematics	3
Master of Business Administration	18
Master of Computer Application	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A Screening System for Simultaneous Inspection OF BAGGAGE AND PASSENGER	Filed	201941042001	17/10/2019
A Method To Minimize Plastic Shrinkage Cracking Of Concrete Constructions Under Variable Ambient Con	Filed	202041001151	10/01/2020
Nano composite insulated high/medium voltage Vacuum circuit breaker	Filed	202041022291	28/05/2020
Carbon Quantum Dots Covered Nano Dielectric Fluids and Its Preparation Methods Thereof	Published	201841031593	28/02/2020
A Method for Providing Navigation Information for A Predefined Environment based on graph theory and Image Processing	Published	201941021404	17/01/2020
An Assistive Electronic Device to operate Sewing Machines Thereof	Published	201841044569	29/05/2020
A method of developing eco-friendly	Published	201841047829	19/06/2020

Multipurpose low cost Geopolymer Ferrocement panels and product				
A Security alert system with random Timers	Filed	201941026712		03/07/2019
Eco friendly high performance paver blocks using Magnetic water and granite dust	Filed	201941035504		04/09/2019
Development of wearable haptic hand-device for Differentlyabled people to operate industrial Sewing	Filed	201941037136		16/09/2019

[View File](#)

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
Reduction of smoke and NOx from the combined effect of thermal barrier coatings and Raphanus sativus biodiesel in a diesel engine for transport sectors	Dr.V Ravikumar	Journal ournal International Journal of Green Energy	2019	0	Sona College of Technology	Nill
Reduction of smoke and NOx from the combined effect of thermal barrier coatings	D. Senthilkumar	Journal ournal International Journal of Green Energy	2019	0	Sona College of Technology	Nill

and Raphanus sativus biodiesel in a diesel engine for transport sectors						
Process Parameter Optimizati on for Multi Fuel Fired Lime Mud Reburning Kiln Operation by Taguchi Method	D Senthi lkumar	Journal of Science Technology for Forest Products and Processes	2019	0	Sona College of Technology	Nill
Performa nce analysis on heat transfer c haracteris tics of heat SINK with baffles attachment	D Senthil Kumar	Internat ional Journal of Thermal Sciences	2019	9	Sona College of Technology	9
Experime ntal Inves tigation Of Critical Heat Flux On Sio2 Thin Film Deposited Copper Substrate In Di Water At A tmospheric Pressure	D Senthil Kumar	Thermal Science	2020	0	Sona College of Technology	Nill
Performa nce and Ch aracteriza tion Studies of Reduced Graphene Oxides Aqua	D Senthil Kumar	Internat ional Journal of Thermophys ics	2020	0	Sona College of Technology	2

Nanofluids for a Pool Boiling Surface						
Non-dominated sorting modified teaching-learning-based optimization for multi-objective machining of polytetrafluoroethylene (PTFE)	Varadaraju Kaviarasan	Journal of Intelligent Manufacturing	2019	5	Sona College of Technology	5
Prediction of surface quality and optimization of process parameters in drilling of Delrin using neural network	Varadaraju Kaviarasan	Progress in Rubber plastics and Recycling Technology	2019	7	Sona College of Technology	5
Experimental investigation on effect of modified solar collector in solar water heating system	Sivaraman Gopal	Thermal Science	2020	0	Sona College of Technology	Nill
Experimental and numerical analysis of diesel engine exhaust heat recovery using triple	Mohan Raman	Thermal Science	2020	0	Sona College of Technology	Nill

tube heat exchanger						

View File

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
Reduction of smoke and NOx from the combined effect of thermal barrier coatings and Raphanus sativus biodiesel in a diesel engine for transport sectors	Dr.V Ravikumar	Journal ournal International Journal of Green Energy	2019	5	Nill	Sona College of Technology
Reduction of smoke and NOx from the combined effect of thermal barrier coatings and Raphanus sativus biodiesel in a diesel engine for transport sectors	D. Senthilkumar	Journal ournal International Journal of Green Energy	2019	9	Nill	Sona College of Technology
Process Parameter Optimization for Multi Fuel Fired Lime Mud Reburning Kiln	D Senthilkumar	Journal of Science Technology for Forest Products and Processes	2019	9	Nill	Sona College of Technology

Operation by Taguchi Method						
Performance analysis on heat transfer characteristics of heat SINK with baffles attachment	D Senthil Kumar	International Journal of Thermal Sciences	2019	9	9	Sona College of Technology
Experimental Investigation Of Critical Heat Flux On Sio2 Thin Film Deposited Copper Substrate In Di Water At Atmospheric Pressure	D Senthil Kumar	Thermal Science	2020	9	Nill	Sona College of Technology
Performance and Characterization Studies of Reduced Graphene Oxides Aqua Nanofluids for a Pool Boiling Surface	D Senthil Kumar	International Journal of Thermophysics	2020	9	2	Sona College of Technology
Non-dominated sorting modified teaching-learning-based optimization for multi-objective machining of polytetrafluoroethylene	Varadaraju Kaviarasan	Journal of Intelligent Manufacturing	2019	4	5	Sona College of Technology

(PTFE)						
Prediction of surface quality and optimization of process parameters in drilling of Delrin using neural network	Varadaraju Kaviarasan	Progress in Rubber plastics and Recycling Technology	2019	4	5	Sona College of Technology
Experimental investigation on effect of modified solar collector in solar water heating system	Sivaraman Gopal	Thermal Science	2020	Nill	Nill	Sona College of Technology
Experimental investigation on effect of modified solar collector in solar water heating system	Mohan Raman	Thermal Science	2020	5	Nill	Sona College of Technology

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	31	48	35	118
Presented papers	72	145	54	13

View File

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)

DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of Permanent Magnet Stepper Motor	Vikram Sarabhai Space Centre Thiruvananthapuram	8635500
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of 27.5kw Quadruplex Brushless DC Torque Motor	Laboratory for Electro Optics Systems, Bangalore	3919305
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of BLDC Motor	Laboratory for Electro Optics Systems, Bangalore	156550
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of BLDC Motor	Laboratory for Electro Optics Systems, Bangalore	782750
Dr.Akilandeswari, HOD, Department of Information Technology	Design and Development of Software - Mining Accounting System with Java and Oracle.	Dalmia Magnesite Ltd, Salem	120000
Dr.Akilandeswari, HOD, Department of Information Technology	Consultancy for conducting online exam	National Stock Exchange Ltd, Mumbai.	67165
Dr.C.Saravanan, Prof, Department of Chemistry.	Developmet of process for Fimasartan Stage 1.	Allastir Pvt Ltd	50000
Dr.Sabeenian, HOD,Department of Electronics and Communication Engineering	Consultancy for Pulse Plating	Sriwin Electric, Salem	5780
DR.C.Chandrasekar, HOD Department of Electrical and Electronics Engineering	Design and Development of Single Phase Deck Power Converter for Shallow Water ROV	National Institute of Ocean Technology, Chennai.	1180000
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of BLDC Motor	Laboratory for Electro Optics Systems, Bangalore	130000
[View File](#)			

3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the	Title of the	Agency seeking /	Revenue generated	Number of trainees

Consultan(s) department	programme	training	(amount in rupees)	
Department of Management Studies	Management Consultancy and Development Programmes	M/S.JSW Steels Ltd, Salem District, Tamilnadu.	417000	30
Department of Management Studies	Faculty Development Programme on E Learning Tools for the new Education Era	M/S.JSW Steels Ltd, Salem District, Tamilnadu.	10000	4
CSE	Programming in C Course	Vee Technologies	120000	12
Information Technology	Blockchain Techniques using Ethereum Solidity	Sona College of Technology	0	3
Department of Management Studies	Business Intelligence Data Visualization Batch II	Industry Executives	114000	38
Department of Management Studies	Business Intelligence for Retail Marketing Professionals	Industry Executives	87000	29
ECE	IBM Smart bridge summer internship programme on machine learning	Vee Technology, Salem	126000	21
ECE	A1 Demystified for a comprehensive learning	Yanee Technologies, Coimbatore	75000	35
		View File		

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
Blood Donation Camp	5 TN AIR SQAD	1	10
Career Guidance Program	11(TN) SIG.COY. NCC 12TN BN NCC	2	44
Guest Lecture About SSB	SONA College of Technology	2	22

Independance Day	SONA College of Technology	2	33
Orphanage Visit	SONA College 11(TN) SIG.COY. NCC	1	15
Tree Plantation at Don bossco Care Home	SONA College 11(TN) SIG.COY. NCC	1	15
World Population Day	11(TN) SIG.COY. NCC	1	15
Tree Plantation	11(TN) SIG.COY. NCC	1	15
Guard Of Honour	11(TN) SIG.COY. NCC	1	7
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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
National Service Scheme for the year 2018 - 2019	University Level Best NSS Programme Officer award 2018 - 2019	Anna University Chennai	200
National Service Scheme for the year 2018 - 2019	University Level Best NSS volunteer award 2018 - 2019	Anna University Chennai	200
National Service Scheme for the year 2018 - 2019	University Level Best NSS Unit Award 2018 -19	Anna University Chennai	200
Tata Crucible Busines Quiz	Emerged as runners-up in state level business quiz Won Cash price Rs.35,000	Tata Group	4
Xchange - National Level Management meet	won the overall championship trophy (award) in National level management meet	Joseph Institute of Management (JIM), Tiruchirapall	8
Best management team in National level Management meet Repowis 2020	Emerged as Best management team in National level Management meet " Repowis 2020" organized by Kongu Engineering college	Kongu Engineering college , Perundurai	4
Won cash prize Rs.10,000 in National level Managhement meet " Yukthi 2020"	emerged as Runners up and won cash prize Rs.10,000 in National level Management meet "	Thiyagaraja School of Management , Madurai	2

		Yukthi 2020		
won the Silver Medal in state level weight lifting competition	won the Silver Medal in state level weight lifting competition	Anna University , Chennai		1
Guinness record (22.09.2019)	Guinness record world record for planting maximum number of palmyra palm seeds within a day	ASSIST WORLD RECORDS - Research Foundation		150

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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Skill Development Training Programmes for the benefit of the Below Poverty Line families	Tamil Nadu Skill Development Corporation, Chennai. Government of Tamil Nadu	Integrated Course in Hair, Skin and Make -up	3	20
Skill Development Training Programmes for the benefit of the Below Poverty Line familiesTamil Nadu Skill Development Corporation, Chennai. Government of Tamil Nadu	Tamil Nadu Skill Development Corporation, Chennai. Government of Tamil Nadu	Beauty Therapist	3	25
Skill Development Training Programmes for the benefit of the Below Poverty Line families	SAIL Salem Steel Plant (under CSR)	Sewing Machine Operator	2	60
Skill Development Training Programmes for the benefit of the Below Poverty Line	SAIL Salem Steel Plant (under CSR)	Multi Skilled Garment Technician	2	20

Skill Development Training Programmes for the benefit of the Below Poverty Line families	SAIL Refractory Co Ltd., Salem (under CSR)	Domestic Data Entry Operator – Batch I	4	25
Skill Development Training Programmes for the benefit of the Below Poverty Line families	SAIL Refractory Co Ltd., Salem (under CSR)	Domestic Data Entry Operator – Batch II	4	25
Skill Development Training Programmes for the benefit of the Below Poverty Line families	SAIL Refractory Co Ltd., Salem (under CSR)	Self Employed Tailor – Batch I	2	25
Skill Development Training Programmes for the benefit of the Below Poverty Line families	SAIL Refractory Co Ltd., Salem (under CSR)	Self Employed Tailor – Batch II	2	25
Skill Development Training Programmes for the benefit of the Below Poverty Line families	PRADHAN MANTRI KAUSHAL VIKAS YOJANA – TECHNICAL INSTITUTE ALL INDIA COUNCIL FOR TECHNICAL EDUCATION (AICTE – PMKVY TI)	Rural Mason	3	25
Skill Development Training Programmes for the benefit of the Below Poverty Line families	Self-supportive	Spoken English	1	17
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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
Industrial Visit	Dr. K.G Saravanan	Sona College of Technology	1
Industrial Visit	Dr.A.Ranjit Kumar	Sona College of Technology	1
Research Paper Publication	V.Kaviarasan	Sona College of Technology	60
Industrial Training	Dr.K.G .Saravanan	Sona College of Technology	10
Industrial Training	Dr.A.Ranjithkumar	Sona College of Technology	3
Internship	Joel Imanuavel jocab	Sona College of Technology	6
Internship	Muthu Meyappan S M	Sona College of Technology	6
Internship	Nishanth K	Sona College of Technology	6
Internship	Azeeth M R	Sona College of Technology	6
Internship	Akash Kumar G	Sona College of Technology	6
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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	Steel Authority of India Limited	01/07/2019	06/07/2019	Joel Imanuavel jocab
Internship	Internship	Steel Authority of India Limited	01/07/2019	06/07/2019	Muthu Meyappan S M
Internship	Internship	Steel Authority of India Limited	01/07/2019	06/07/2019	Nishanth K
Internship	Internship	Steel Authority of India Limited	01/07/2019	06/07/2019	Azeeth M R
Internship	Internship	Steel Authority of India	01/07/2019	06/07/2019	Akash Kumar G

Internship	Internship	Steel Authority of India Limited	01/07/2019	06/07/2019	Clement C
Internship	Internship	Steel Authority of India Limited	03/07/2019	08/07/2019	Sathish R
Internship	Internship	Steel Authority of India Limited	03/07/2019	08/07/2019	Sakthi M
Internship	Internship	Steel Authority of India Limited	03/07/2019	08/07/2019	Sarjith S
Internship	Internship	Steel Authority of India Limited	21/05/2019	19/06/2019	Tamil Selvan P

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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
KCube Consultancy Services P Ltd., Chennai	04/09/2019	KCube will conduct value addition training program to enrich the skill set of students on GIS and Remote sensing applications.	30
Aviocian Technologies pvt ltd.	26/09/2019	To provide technical training and workshop for areas like Drone surveying, 3D mapping, and Remote sensing.	15
FESTO	10/10/2019	Training on wheels	115
Codissia	07/11/2019	For research consultancy and startup	65
Livewire (CADD Centre), Salem	25/11/2019	Student Training, Internships	45
Livewire	04/10/2019	To provide a framework of reference to build	120

		a strong and on-going relationship between SCT and Live wire in various area of industrial visit, software Training in the area of Internet of Things, Python, Embedded system, Machine learning , Networking	
Swinburne University of Technology, Sarawak Campus	20/09/2019	To provide students Internship, Joint research, publications and Joint Teaching	4
Smartbridge and IBM	17/07/2019	Training Programme on Machine Learning, AI and Cyber Security Followed by Hiring	99
UIPath	08/01/2019	Training programme on Robotics Process and Automation	4
KKM Soft P Ltd., Chennai	04/07/2019	To provide Training certification on Autodesk 2D 3D and related software a subsidized cost.To organize workshops, seminars to impart 3D design skills, using Building Information Modelling concepts and enhance employability of students.	20

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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
520	1010.55

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	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Video Centre	Newly Added
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
Seminar Halls	Existing
Laboratories	Existing
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 patially)	Version	Year of automation
AUTOLIB	Fully	2.1	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	88660	29672150	537	302221	89197	29974371
Reference Books	3972	5605179	112	125892	4084	5731071
e-Books	442	Nill	34	Nill	476	Nill
Journals	225	711987	2	4575	227	716562
e-Journals	4	1685073	4	1879405	8	3564478
Digital Database	3675	Nill	Nill	615399	3675	615399
CD & Video	2494	278534	5	5800	2499	284334
Library Automation	1	157500	Nill	Nill	1	157500
Others(specify)	Nill	11500	Nill	11500	Nill	23000

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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	Date of launching e-

		is developed	content
S.Sankar	Programming in C	Hiremee	20/05/2020
T.K.Revathi	Programming in C	Hiremee	20/05/2020
S.Vidhushavarshini	Programming in C	Hiremee	20/05/2020
Dr.V.Sathiyamoorthi	Data Base Management System	Hiremee	20/05/2020
Dr. K.C. Rajeswari	Data Base Management System	Hiremee	20/05/2020
Mr.G.Mohanraj	Data Base Management System	Hiremee	20/05/2020
Prof.D.Vidyabharathi	Data Base Management System	Hiremee	20/05/2020
Dr.G.Kirubasri	Operating Systems	Hiremee	20/05/2020
Dr.D. Balamurugan	Operating Systems	Hiremee	20/05/2020
Dr.A.C.Kaladevi	Operating Systems	Hiremee	20/05/2020
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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	1722	771	205	32	0	85	813	205	21
Added	147	130	0	0	0	14	3	0	0
Total	1869	901	205	32	0	99	816	205	21

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

205 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
sonaversity	https://www.sonatech.ac.in/blog/sonaversity-onestop-solution-for-multimedia-needs/
LECTURE CAPTURING SYSTEM (LCS)	http://182.73.107.187/impartus/login.as
BLACK BOARD	https://sonalearn.org/
HIREMEE	https://hiremee.co.in/company/login

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	Expenditure incurred on	Assigned budget on	Expenditure incurredon

academic facilities	maintenance of academic facilities	physical facilities	maintenance of physical facilites
160	186.37	210	239.3

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)

The maintainenance team in college consits of Maintainenance coordinator with site engineer,Mason,plumber,electrician are monitoring regulary the infrastructure of insititution.The maintainenance team is directly reported to principal . All the details are maintained by Management Information System (MIS) . The team maintained the water treatment plant also. The steps followed by maintainenace team 1. Cleaning twice a day 2. weekl twice a week for swimming pool with AMC 3.Renovation of washrooms twice a day 4. Lawn maintained by horticulturist. physical infrastructure repair and maintenance work is carried out by maintainenance team.Air conditioning system are given to external agency for AMC contract. To maintain the internet connectivity,CCTV security system by system administrator team .Maintainenance of laboratory equipment in the institution takes up calibration and other services of equipment /Instruments through suppliers periodically . The departments maintain their equipments and other laboratory equipments are maintained by technical staffs. Secutity personnel are deploy at college main gate,all department blocks, corridors are under supervised by security officer keep vigil through out the campus 24x7.

https://www.sonatech.ac.in/IQAC/aqar.php

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	Merit cum Means, Sports Scholarship, Special Scholarship-,IIIII, Chairman Special Scholarship, Returnable loan scheme,Foreign Students PG Scholarship	588	6315000
Financial Support from Other Sources			
a) National	BC/MBC Renewal Fresh, SC/ST Renewal Fresh and TN Government -First Graduate Students Fee Waiver Scheme , AICTE -Prime Ministers special scholarship scheme for students of JK	2422	45801660
b)International	EdCIL India Pvt	9	2926345

	Ltd., New Delhi		
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
The Foundation Course for Engineering Aspirants	03/06/2019	190	Sona College of Technology, Salem
Spoken Tutorial	01/07/2019	2259	Sona College of Technology, Salem
Mentoring	24/06/2019	4576	Sona College of Technology, Salem
Personal Counselling	24/06/2019	4576	Sona College of Technology, Salem
Yoga and Meditation	05/08/2019	934	Sona College of Technology, Salem
Transit courses for lateral entry students	06/06/2019	14	Sona College of Technology, Salem
Language lab	24/06/2019	2952	Sona College of Technology, Salem
Remedial coaching	24/06/2019	4576	Sona College of Technology, Salem
Soft Skill development	24/06/2019	3938	Sona College of Technology, Salem
Career Counselling	24/06/2019	1308	Sona College of Technology, Salem
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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 passedin the comp. exam	Number of studentsp placed
2020	Awarness program for competitive examinations -SWADESH-4	97	97	Nill	Nill
2019	SONA Placement Training	Nill	1308	Nill	791
2019	GATE Coaching	186	186	9	Nill
2019	Training	39	39	1	Nill

	for Aspiring SC/ST students seeking higher education -PRENANA				
2019	Higher Education and Conscious Choices	60	60	3	Nill
2020	Awareness program on UPSC Examinations	30	30	Nill	Nill
2019	An Entrepreneurship Awareness Programme	Nill	338	Nill	Nill
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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
10	10	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Soquetek Private Limited	46	6	KGISL	6	6
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	3	B.Tech	Fashion Technology	Sona College of Technology, Salem	MBA
2020	1	B.E	Computer Science	Illinois Institute of Technology, Chicago	Master of Data Science

2020	1	B.E	Computer Science	SSN School of Management, Chennai	MBA
2020	1	B.E	Computer Science	SSN School of Management, Chennai	MBA
2020	1	B.E	Computer Science	Jansons School of Business, Coimbatore	MBA
2020	1	B.E	Computer Science	Thiagarajar School of Management, Madurai	MBA
2020	1	B.E	Computer Science	Sona College of Technology, Salem	MBA
2020	1	B.Tech	Information Technology	Sona College of Technology, Salem	MBA
2020	1	B.Tech	Information Technology	Sona College of Technology, Salem	MBA
2020	1	B.Tech	Information Technology	University Departments of Anna University , Chennai-CEG CAMPUS	M.TECH (IT)

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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
GATE	4
GRE	1
Any Other	13
Any Other	2
Any Other	1

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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
An Intra Department Technical Fest (CORE)	COLLEGE LEVEL	89

Department Symposium (CARVE 2020)	NATIONAL LEVEL	400	
National Conference on Computational Intelligence, Security and Systems -NAC-CISS20	NATIONAL LEVEL	174	
APPATHON 2020 (Online)(14-05-2020)	COLLEGE LEVEL	35	
Volant'20- Project Olympiad (Online)(23.05.2020)	COLLEGE LEVEL	172	
Krivaas- Codigo (Coding Event) (06.03.2020)	COLLEGE LEVEL	145	
Threads 'T20 – State Level Students Technical Symposium(13.03.2020 14.03.2020)	NATIONAL	330	
Smart India Hackathon 2020-Internal Hackathon (11.1.2020 24.1.2020)	COLLEGE LEVEL	120	
Plugin 2k19 – Technical and Non-Technical Events for First Year CSE (08.11.2019)	COLLEGE LEVEL	165	
CSE Association Inauguration for the academic year 2019-2020 (21.08.2019)	COLLEGE LEVEL	512	

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Tamil Isai Award for Veena	National	Nill	1	1919102118	R. Raja Vignesh Pherumal
2020	Mimicry Star	National	Nill	1	1517102048	Mr.V.Hariharan
2020	Mimicry Star	National	Nill	1	1517102048	Mr.V.Hariharan
2020	First prize in Group Dance	National	Nill	1	1516104024	Emaya Bharathi B
2019	Gold Medal	National	1	Nill	1919107021	T.K. Eniyan-I/FT
2019	Gold Medal	National	1	Nill	1919107021	T.K. Eniyan-I/FT

2019	Gold medal	National	1	Nill	1516101736	Thangarasu K
2019	Gold medal	National	1	Nill	1516101736	Thangarasu K
2019	Bronze medal	National	1	Nill	1516101736	Thangarasu K
2019	Bronze medal	National	1	Nill	1516101736	Thangarasu K

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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)

Sona College of Technology has an active student council that helps the students actively engage in the institution's growth. The main objective of the student council is to motivate the students to participate in co-curricular and extracurricular activities and also to enhance their inherent talents through the shared forum. The institution has separate technical and non-technical clubs run by the students. Under the club, different activities are coordinated by the elected members and student volunteers under the guidance of faculty coordinators. Different clubs which are active in the college are available in college website(www.sonatech.ac.in). The management has initiate two new clubs in the academic year 2019-2020. The management started "SONACOM" to get innovative ideas from students for Social media marketing. The main objectives of this club is to make students carryout Video Making, Trending tags in Social Media, Blog writing and Event promotion. The second club is the Cooking Club, which motivates the students to involve in making different variety of dishes. The college has numerous general clubs that allows the students to affiliate with the club based on their interest. The institution appoints an overall faculty coordinator to track the activities taking place in each club. There is a separate staff advisors for each club which is responsible for overseeing all the club's students' activities. The students from the institution who are interested in a particular club can associate themselves with the club by enrolling their names. The students can enrol their names with the respective staff advisors through their Class Counsellors. After enrolling the names, the staff advisors for each club shall conduct the interview and select the students for various posts. Each club has a chairman elected from the overall final year students and Secretary from the overall third year students and Joint Secretary from the second year. An election is conducted at the beginning of every academic year to elect Chairman, Secretary and Joint Secretary of the concerned club and they are responsible for conducting various awareness programs for the benefit of the student. The management took the initiative to develop students' communication skills through Sona Students' Speakers' Forum (SSSF). Sona Students' Speakers' Forum (SSSF) was designed to turn students into good speakers with Accuracy, Brevity, and Clarity. Students can overcome inhibition and stage fever by speaking a subject of their interest. Each class in the department has set of student representative who are responsible for representing the problems faced in the class during Class Committee meeting conducted for every semester. Students representative from the final year are also involved in the Board of Studies for framing the curriculum and syllabus. The suggestion given during department meeting by the student representatives will be integrated and addressed to the members of Board of Studies. Student representatives were invited to attend the Board of Studies meeting to answer

the issues faced by the students. Students can also represent their problems through the Suggestion box , Mentor meeting, Hostel meeting, Anti Ragging Committee and Disciplinary Committee Meeting.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Sona College of Technology has been generating alumni since 2001 and has an officially registered Sona Alumni Association (SAA) (Document. No. 66 of 2018 of book 4) under TamilNadu Government. Sona Alumni Association functions as a nodal platform for maintaining liaison with the alumni and to involve them in the development and growth of the institution. It promotes and encourage the alumni to exchange professional knowledge by undertaking and facilitating conferences, seminars, lectures and meetings amongst alumni, students, faculty and others. And also Alumni cell helps promoting alumni relationships, fostering commitment among students and enabling student-alumni interactions.Continuous interaction with Alumni through our vibrant means of communication is expected to widen the placement internship and job opportunities of the students. Alumni Day (RETROSPECT) is being celebrated every year as a calendar event by the Management to bring the alumni of various department to cherish their memories with college and contribute back wisely for the college through support in placement, career guidance and internship for the present students. Also based on the convenience of the Alumni, Alumni chapters were held up at various geographical location for better connect with them. Alumni Coordinators of the concerned departments play a significant role in registering and organizing the Alumni day and Alumni chapter leading it to be the grand success. And also the alumni cell functioned actively through the situation of COVID-19 and kept its alumni connected through various online alumni meet for all the departments' year wise. Our Alumni were overwhelmed to meet their batch mates and staffs via online and suggested various guidelines for the present graduates to improve their career in future by detailing the requirements that are necessary to be professionals in an industry.

5.4.2 – No. of registered Alumni:

18858

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

2084000

5.4.4 – Meetings/activities organized by Alumni Association :

• Hosur chapter was held on 30th June 2019. • Retrospect'19 held on 10th August 2019. • An industrialist meet was organized in Hotel ASHWA PARK on 14th August 2019 to discuss the business needs and success evolution. • First round of mock interview was held on 24th July 2019 by 54 alumni from different departments. • Second round of mock interview was held on 10th September 2019 by 19 alumni from different departments. • Online ALUMNI MEET commenced from the month of MAY 2020 every Saturday for all the departments according to their batch and have completed meet till batch 2005 as of JUNE 2020.

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)

ISO Activities: The SONA-QMS division's primary objective is to monitor, maintain and improve the quality of our institution consistently as per the

standard ISO 9001: 2015. Various quality enhancement initiatives and activities carried out by the SONA QMS are summarized below. Two Internal Quality Audits were conducted on 06th – 07thJanuary 2020 and 08th- 09th June 2020 respectively. QMS awareness programme was conducted for new faculty members and ISO core team members on 12th July 2019. The 34th Management Review Committee (MRC) meeting was conducted on 12.02.2020 and 35th Management Review Committee (MRC) meeting on 07.07.2020. During the MRC meeting, the results of the 'Internal quality Audits' were discussed. The report on the status of achievement of "College level quality objectives" for the period 2019-20 was reviewed during the MRC meeting. The College level objectives for the academic year 2020-2021 were framed and analyzed. Feedbacks received from students, alumni and industries were also considered for discussion. The internal and external issues affecting the QMS were discussed. Feedback through suggestion boxes and the actions taken against it were presented and clarified. The health advisory to avoid the spread of COVID-19 has been implemented in the campus. The health and safety practice in Sona after lockdown has been included in the process manual and updated. The remote re-certification Audit was carried out in 20th 21st July 2020 by Bureau Veritas India Pvt. Ltd.. The Audit results were presented in the closing meeting. The Audit findings and corrective steps to be taken were discussed. All the corrective measures for the audit findings were executed to make certain that quality is sustained in the campus. The certification for the standard ISO 9001:2015 was extended up to 2nd September 2023 by Bureau Veritas India Pvt. Ltd. Academic Council: The Academic Council of Sona College of Technology functions in a well-structured and defined manner to ensure participative management at all levels of decision making. The Academic Council comprises of Principal (Chairman of the council), all the Heads of Departments in the college, four senior teachers of the college, four industry experts, three nominees of Anna University and Member Secretary of the council. All the stakeholders of Academic Council involve in the decentralization and participative management and all are working together for efficient functioning of the college. The academic council meetings will be conducted twice in a year. The council will scrutinize and approve all the academic matters related to autonomous regulations, updates in curricula and syllabi recommended by Board of studies meetings of various departments, amendments in regulations, submission of recommendations for start of new courses to Governing Council, examination related matters etc. From 2015 onwards, the college has implemented CBCS- Choice Based Credit System in the Academic Regulations of all programmes. The CBCS curriculum provides flexibility for students in selecting the courses and credits based on their choice to equip themselves for their career growth. The curriculum provides more opportunities for the students to have more linkage with Industries.

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	The CBCS curriculum and syllabi are revised from time to time, in order to suit the current industrial needs. The curriculum focuses on Basic science courses, Humanities Management courses, Professional core and elective courses, open elective courses, Industry oriented courses, Internships, online courses, Optional foreign language

	elective courses etc. A regular assessment of the curriculum is done through feedback from the stakeholders: students, alumni, subject experts from reputed institutions, employers and experts from the industry. The suggestions received from them are reviewed by the Sub Committee of the department. Relevant suggestions are considered for inclusion in the curriculum. In the process of developing the curriculum, care is taken to ensure adherence to norms and guidelines prescribed by the Anna University, Chennai, the AICTE and the UGC. The finalized curriculum is reviewed in the discipline-wise Boards of Studies and the recommendations are approved in the Academic Council meeting.
Teaching and Learning	? Teaching and Learning All the faculty of the institution are trained in the contemporary and innovative methods of teaching and encouraged to attend various programmes on pedagogy. The widely used teaching and learning methods at the institution are lecture, group discussion, quiz, demonstration, drill and practice, case studies, tutorials, Peer teaching, team teaching, seminar, internship, projects, surveys, computer lab, simulation, field and factory visits, games and role play. For Covid-19 pandemic situation, we have introduced online teaching through Microsoft teams and the assessment of the students is carried out through Hiremee and Blackboard platforms. The innovative teaching learning methods like Lecture Capturing System (LCS), Moodle and Blackboard Learning management system are effectively implemented to enhance the teaching- learning process. In addition to classroom learning, aids like NPTEL, EDUSAT, Indo-US, A –VIEW, YouTube, Khan Academy, e-journals, etc. are also available for the students to facilitate learning.
Examination and Evaluation	? Examination and Evaluation Continuous Internal Evaluation (CIE) exams conducted three times in a semester to assess the internal marks of the students. The question papers for the CIE are set by the internal faculty. The question papers for the Semester-End Examination (SEE) are set

	by the internal and external faculty. The question papers of the CIE and SEE are scrutinized by the Head / Senior faculty members. The question papers conform to Sona benchmarks and will satisfy the Bloom's levels of learning. "Know your hall" app was introduced to ease the seating details of the students, while taking up the SEE. Online Internal examination assessments are introduced and monitored through image and windows proctoring to avoid malpractices. A system of central valuation is adopted for the theory courses involving internal and external examiners. For the practical courses the evaluation is done by a panel of internal and external examiners. The results of the SEE are published within 30 days from the date of completion of the examinations. Photocopies and revaluation of the answer scripts facilities are provided to the students.
Research and Development	? Research and Development • The vibrant research and development activity in the college has resulted in receiving grants from organisations like DST, AICTE, UGC, DST-WTP, DST-FIST, ISRO, NIOT, etc. and also a few industries. • The institute has been recognised as SIRO for doing industrial research by DSIR, Government of India. • The centres of excellence focus primarily on applied research, product development, industrial training, development of multimedia resources and publication. The centres are equipped with advanced equipment and technology. • Faculties are primarily involved in research projects that are beneficial to the society. • Seed Money scheme for the innovative research projects of faculties and students.
Library, ICT and Physical Infrastructure / Instrumentation	? Library, ICT and Physical Infrastructure / Instrumentation • The Library which has started with 2350 Volume and 43 Journal/Magazines in 1997 has now grown to over a 89000 Volumes of Books and Journals. During 2019-2020 we have acquired a large number of e-journals and other resources. The library outreach activities like readers club, SSF, Sona LIKE, and celebration of important days like World Book day, Engineers Day, National Science Day etc. have become intense

	and effective during 2019 -2020.Detailed planning is made to shift the library to the New Building. • The college has set up Lecture Capture System and LCD projector in all classrooms. The Wi-Fi facilities and broad band internet facilities are provided in the premises. Physical Infrastructure / Instrumentation: • An auditorium, amphitheatre, central library, department libraries, guest rooms, medical centre with an ambulance , sports centre, yoga centre, DTP centre, cafeteria, coffee-day kiosks, ATMs, adequate vehicle-parking space for students and staff are functioning effectively. • CCTV cameras are installed in strategic locationsand adequate numbers of fire extinguishers at vantage points are in the campus.
Human Resource Management	? Human Resource Management To update the faculty knowledge on par with technology research, we have followed an appraisal system for all the faculty members at all levels. The Performance metrics appraisal method is introduced and it involves the following components of teaching, learning and evaluation related activities, co-curricular, extension and professional development related activities, and research and academic contributions. For the faculty, it is mandatory to get Training Sessions / Industry Training (40 hours) / MOOC Courses Publications in higher end journals like SCI, SCOPUS which is also rewarded every year. For recruitment of new faculties an external member from reputed institution/ industry also included in the recruitment team.
Industry Interaction / Collaboration	? Industry Interaction / Collaboration • Sona's industry-academia interaction enthuses the spirit of innovation in the budding engineers. • Signing of MOUs with industries for research projects, consultancy, placement, internship, in-plant training, industrial visit and interactive sessions like seminars, webinars and workshops take place. • Mutually-beneficial activities (based on the MOUs) are organised in every department for every semester. • The MoU signed industries are recruited our students for placement and internship. • The students are benefited with

	certification courses in collaboration with industries. • Faculties are visiting to the industry to analyse and study of industry day to day and long standing technical problems. • The tangible outcome of this activity is the AICTE-CII award bestowed upon us year after year.
Admission of Students	? Admission of Students Admission of students in our institution takes place through TNEA counseling and Management seats. The TNEA counseling is conducted by Tamilnadu government every year to fill the seats allotted by engineering colleges through which the students can admitted on merit basis. For Management quota, a selection committee constituted by the college management and the principal as per the guidelines of the institution will select the candidates. The selection is purely provisional and always subject to the confirmation from Anna University / Directorate of Technical Education, Chennai. The selection committee will abide by the specific norms and guidelines mentioned by government and Anna university for selecting candidates for admission to various programmes offered by the institution.

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

E-governace area	Details
Planning and Development	Automation of the processes specifically, Mapping of course outcomes with learning outcomes, Attainment of course outcomes and programme outcomes, Result analysis, Staff appraisal system, Student/Alumni/Employer/Course-End Survey, Compliance System, Training and Placement, Research and Consultancy, Comprehensive Staff Profile, Leave management, End-to-End Examinations processing, Fee management, Scholarships, e-Circulars, etc. ready to access data/graph reports, Integration with 3rd Party Tools (Moodle, Tally etc.) supports educational and management functions in o Policy planning and implementation, o Decision making, monitoring and evaluation of the education system, and o Follow up on the daily activities of each major entity in a streamlined, systematic and timely manner.

Administration	• Appropriate data flow mechanisms and channels are applied to promote the exchange of derived up-to-date information among the stakeholders. • Instant availability of aggregate data provides a deeper understanding of education system. • Streamlined standard formats and procedures for data collection and storage eliminate duplicate, redundant and conflicting data. • Inter-relation between the modules promotes high-quality data presentation and data interpretation standards. • Precise data and graphical reports are produced wherever required to support in-depth understanding. • Single point instant data capturing, role-based access control and time-based locking mechanisms make the MIS very unique. • Maintenance of regular data/source back-up and data archival mechanisms optimizes administration.
Finance and Accounts	MIS supports right from maintaining student record, fee calculation, auto-generated receipts, SMS/email reminders. Below given are details. • Category wise (Single window/MQ/FN) and Nature wise (Regular /Lateral/Transfer/Re-admission) Fee structure entry • Online Fee payment • Fee reduction management in terms of Scholarships (SC/ST, First Graduate) • Fee payment receipt • Fee refund management (Excess entry/Caution deposit) • Flexible importing of fee payment data received from bank into MIS database. • Flexible exporting of fee payment data to Tally Software for further accounting • Reports: o Fee collection (Bank wise / Pay mode wise / Date wise / Student wise) o Outstanding / Fee paid o Fee payment abstract (Year wise /Brach wise) o Customized report formatting o Bonafide Letter format for loan process
Student Admission and Support	Admission processes are carried out through online applications with easy-to-fill-out student admission forms. Online forms are integrated on college website and mobile app which makes easy real-time data search and retrieval. All inquiries are managed in a single place.MIS supports trackingcomplete student applications status throughout admission process, from inquiry through application, admission and enrollment. Below given are processes involved. •

	Online registration including information such as Personal-, Educational-, Parents-, Communication- and Course preference- related. • Documents upload and online payment features. • Data authentication through OTP • Auto SMS and Email communications wherever required • Detailed reporting for management observations and decision making
Examination	Examination workflow processes are fully automated and controlled over the MIS system. Role based and system based authentication provided high security. Instant notifications are provided through SMS and Emails. Below given are processes involved. • Automation of Internal marks calculation • Auto locking for attendance and mark entry • Periodic Auto-backup • Automated question paper generation • Attainment of course outcomes and programme outcomes • Automation of planning and schedule • Room Allocation / Seating Arrangement • Auto-Invoice Generation • Exam Registration/Fee Collection/Hall Ticket Generation • Semester End examinations - Attendance/Dummy number generation/Mark Entry • Result Processing – Moderation / Publication of results • Revaluation • Mark-sheet/ Consolidate Mark-Sheet/ Transcript • Provisional Report Generation

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr.V.Ravikumar	International Conference	Nill	7000
2019	Dr.D.Senthil Kumar	International Conference	Nill	7000
2019	VR.Srinivasan	National Workshop	Nill	1000
2019	L.Gokulanathan	National Workshop	Nill	1000
2019	G.Sudharsan	International Conference	Nill	6000
2019	R.Yuvaraj	AICTE Sponsored Short term Course	Nill	1000

| 2019 | Dr.V.Ravikumar | AICTE Sponsored Short term Course | Nill | 1000 |
| 2019 | T.Dinesh | Industrial Training Programme | Nill | 3000 |

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Induction Cum Refresher Programme for New Recruits Other Faculty	Nil	18/06/2019	22/06/2019	38	Nill
2019	Nil	Positive Thinking for Holistic Growth	25/06/2019	25/06/2019	Nill	28
2019	QMS – AWARENESS PROGRAMME – 2019	Nil	12/07/2019	12/07/2019	35	Nill
2019	Wonders of Numbers	Wonders of Numbers	26/07/2019	26/07/2019	70	30
2019	A Demo on Plickers – An Assessment Tool	A Demo on Plickers – An Assessment Tool	26/07/2019	26/07/2019	70	30
2019	3D – Virtual Garmenting and Fit Analysis	Nil	12/07/2019	12/07/2019	113	Nill
2019	Managing Unpredicted Situations in Journal Publicatio	Nil	12/07/2019	12/07/2019	113	Nill

2019	English in India	Nil	22/08/2019	Nill	124	Nill
2019	Signature of Climate Change - past and Present	Nil	22/08/2019	22/08/2019	124	Nill
2019	How to Stay Safe on Line	Nil	20/09/2019	20/09/2019	115	Nill

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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
International Workshop (Material Informatics and Soft Computing Application Using Machine Learning and FEA)	1	13/03/2020	14/03/2020	2
Faculty Development Programme (National Faculty Development programme in Entrepreneurship)	1	02/12/2019	14/12/2019	12
Faculty Development Programme (Entrepreneurship in Geo Environmental Engineering)	1	25/11/2019	07/12/2019	12
Faculty Development Programme (Water Resources Management)	2	25/11/2019	29/11/2019	5
Faculty Development Programme (Analysis and	2	13/11/2019	26/11/2019	12

| Limit State Design of structural steel works as per IS:1893-2016 IS:800-2007) | | | | | |

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nill	18	Nill	14

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
• Contribution to provident fund • Contribution towards medical insurance • Maternity leave • Medical leave • Advance to meet emergency expenditure • Medical centre • Gratuity • Personal accident insurance • Registration fee, TA and DA for attending conferences, workshop. Etc	• Uniforms for support staff • Financial aid for the education of the ward of support staff • Festival Bonus • Contribution to ESI • Fee concessions for children of administrative and support staff • Medical centre facility • Gratuity • Personal accident insurance • Salary advance. • Registration fee, TA and DA for attending programs	• Management Scholarship is given each year for the following categories: ? Sports scholarship ? Merit cum means scholarship ? Merit scholarship ? Special scholarship • Financial support for: ? Student innovative projects ? Student competition ? Attending seminar and conferences ? Appreciation prizes for meritorious students • Free accommodation and food in the hostel for the needy • 24 hours medical support • Insurance for the students • Well-equipped infrastructure for disabled students. • Transport subsidies for the needy • Psychological counselling • Yoga counselling for mental wellbeing

6.4 – Financial Management and Resource Mobilization

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

Internal /Concurrent Audits • The expenditure for staff salary is being audited every month • The amount incurred towards infrastructure maintenance and purchase of new equipment's, consumable items is being audited then and there. • The expenditure incurred towards organizing the programs in institute is being audited. • The amount spent towards staff development programs attended by the staffs outside of the institution. • Identify and assess risks of material misstatement, whether due to fraud or error, based on an understating of the institution and its environment, including the institutions internal

control. • Obtain sufficient appropriate audit evidence about whether material misstatements exist, through designing and implementing appropriate responses to the assessed risks. • Form an opinion on the financial statements, or determine that an opinion cannot be formed, based on an evaluation of the audit evidence obtained. • Obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, thereby enabling the auditor to express an opinion on whether the financial statements are presented fairly, in all material respects, in accordance with an applicable financial reporting framework. • Providing reasonable basis for the users to place reliance on financial statements, and • To comply the various legal requirement. External/Statutory Audits • In our institution external audit is being carried out by M/s.R.Srivastan Co, Charted accountant, Salem represented by his partner G.Gowthaman, Charted accountant with their team of audit staff during the period from June to September every year. • The external team audit the objects as referred the activities of internal audit. • All the flow of funds of the institution is being audited by the external team and submits audited statement to the management. Mechanism of settling audit objection: We have appointed a separate staff in the accounts department to follow up audited activities. If any objections raised by the external auditing team it will be settled then and there.

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
Chockalingam Trust	9568000	Creation of infrastructural development and research activities
No file uploaded.		

6.4.3 – Total corpus fund generated

94231000

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	Bureau Veritas	Yes	IQAC,QMS
Administrative	Yes	Bureau Veritas	Yes	IQAC,QMS,ASTRAL

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

• Parent –Teacher meeting is organized by individual departments atleast twice in a year and Institutions achievements and Events are shared with the parents. • During parent's teachers meeting feedback regarding curriculum development, Placement opportunities, co-curricular andextracurricular aspects are collected from parents. Also discussed the performance of their wards in the CIE Test and other activities. • Awareness given to the parents about the importance of foreign languages in international placement opportunities for their wards. • Faculty advisors are keep on touch with the parents to discuss the academic activities.

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

> • Stress Management program was organised for the support staff. • A workshop on "Positive Thinking for Holistic Growth" has been conducted for the benefit of the staffs. • Yoga classes were arranged for the interested staff members to maintain their health. • The basic computer training on MS office was conducted to improve the computer skills. • Spoken English class is being conducted for the supporting staff to improve their communications.

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

> 6.5.4 Post Accreditation initiative(s) (mention at least three) • Alumni cell is being registered • Seed Money is introduced to enhance the research activities. • Conducted Chapter wise alumni meet and Online alumni meet (batch wise) during the academic year. • Introduced new UG program in B.E-Biomedical Engineering and PG program in M.E Data Science. • The Strategic Planning Group members are formed and department wise training has been initiated for all faculties. • The internship to the students is initiated through internshala.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Induction Cum Refresher Programme for New Recruits Other Faculty	Nill	18/06/2019	22/06/2019	38
2019	QMS – Awarness Programme – 2019	12/07/2019	Nill	Nill	35
2019	Positive Thinking for Holistic Growth	25/06/2019	Nill	Nill	28
2019	Wonders of Numbers A Demo on Plickers – An Assessment Tool	26/07/2019	Nill	Nill	100
2019	3D – Virtual Garmenting and Fit Analysis	12/07/2019	Nill	Nill	113

| 2019 | English in India Signature of Climate Change - past and Present | 22/08/2019 | Nill | Nill | 124 |

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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
INTERNATIONAL YOGA DAY	21/06/2019	21/06/2019	17	13
GRADUATION DAY	29/06/2019	29/06/2019	620	490
WORLD POPULATION DAY	03/07/2019	03/07/2019	23	17
SWACHH BHARAT	18/07/2019	18/07/2019	250	190
ORIENTATION PROGRAM	26/08/2019	26/08/2019	85	55
FRESHERS DAY	31/07/2019	31/07/2019	450	350
ALUMINI MEET	10/08/2019	10/08/2019	90	40
INDEPENDENCE DAY	15/08/2019	15/08/2019	40	70
TREE PLANTATION	25/08/2019	25/08/2019	38	32
NSS DAY EVENTS	18/09/2019	18/09/2019	200	120
PAPER PRESENTATION, AD ZAP and STORY TELLING	19/09/2019	19/09/2019	64	56
NUTRITION AWARENESS	24/09/2019	24/09/2019	82	62
NSS DAY CELEBRATION	24/09/2019	24/09/2019	68	56
SWACHH BHARAT	02/10/2019	02/10/2019	24	16
TREKKING	05/10/2019	05/10/2019	56	24

SONA BREEZE	23/10/2019	23/10/2019	30	50
POLIO CAMP	19/01/2020	19/01/2020	12	18
Republic Day	26/01/2020	26/01/2020	45	60
Sri Srinivasa Thiru Kalyanam	09/02/2020	09/02/2020	900	800
National Service Scheme (NSS)	27/02/2020	27/02/2020	30	40
National Service Scheme (NSS)	04/03/2020	04/03/2020	35	37
Corona Virus Awareness	14/03/2020	14/03/2020	65	45

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
Percentage of Annual Lighting Power Requirement Met through LED BULBS in 23.38 Percentage of Annual Lighting Power Requirement Met through LED BULBS in kWh 78804 kWh Percentage of Annual Power Requirement of the Institution met by the Renewal Energy Sources in 10.86 Annual Power Requirement met by the Renewable Energy Resources in kWh 122044 kWh

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	7
Provision for lift	Yes	4
Ramp/Rails	Yes	7
Braille Software/facilities	No	Nill
Rest Rooms	Yes	7
Scribes for examination	No	Nill
Special skill development for differently abled students	Yes	120
Any other similar facility	Yes	7

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	6	12	03/07/2019	1	WORLD POPULATION DAY	Rally Awareness Created	110

2020	6	12	19/01/2020	1	POLIO VACCINATION CAMP	Vaccinate Childrens and door to door canvasing nearby houses	35

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Employee Handbook	10/06/2019	The principal, heads of the department and HR, continuously monitor the organizational behavior and objectives of every faculty and students
Academic Calendar	10/06/2019	A code of conduct for students is specified in the Academic Diary.
Seminar on "Professional Ethics and Human Values" by Mr. N. Sampath Kumar, CEO, LAD LEADER Consultancy Services.	04/10/2019	The program was conducted for students to follow up on the theory course of the curriculam. This program helps students to understand professional ethics to be followed in an organization.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
GRADUATION DAY	29/06/2019	29/06/2019	1110
SWACHH BHARAT	18/07/2019	18/07/2019	440

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

1. Pedestrian friendly roads Pedestrian-friendly walkways and pavements are aplenty on the campus to encourage the walking habit. 2. Green landscaping with trees and plants Campus fully covered green landscaping with plants and trees 3. Green landscaping with trees and plants The college has a plastic-free campus. 4. Use of public transport There are four college buses that enable students travel from the college every day. Around 3400 students use the public transport system (Salem-city and mofussil buses) daily for this purpose and 100 - 200 of them walk to the college and back. 5.Use of bicycles A few day-scholars and hostel students are encouraged to use bicycles within and outside the campus.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice: 1. Japanese language Goal: To Perform Training Needs Analysis for Enhanced Productivity and improving the quality of the students

through foreign languages. The Context: Due to the rapid up-gradation of technology, students are provided with a very high level of knowledge and all the latest technologies. Sona College of Technology (SCT), has been conducting Japanese Language course by Native Japanese speaker for past three year. Over 360 students from II, III and IVth years are learning Japanese language at our centre named as GANBARE SONA. The Practice: Japan Foundation approved SCT to conduct Japanese Language Proficiency Test (JLPT) from December 2019. Our college was second center in Tamil Nadu and one of the eighth centers in India. About 850 peoples from Sona College and Salem surroundings are going to take JLPT exam in Dec. 2019. Various awareness seminar and guest lectures are conducted about Job openings, working culture and opportunities for higher studies in top ranked Japanese Universities. Evidence of success: Nearly 75 fresher are successfully placed in Japan with an average salary of Rs.20 lakhs per annum. Also, SCT introduced Foreign language course in B.E./B.Tech., first year curriculum and more than 700 students are learning Japanese Language. Problems Encountered: All necessary steps are taken to manage the availabilities effectively. Resources Required: Necessary provisions are made in the budget allocation. Great initiatives are taken to enrich the quality of the students and help them to get placements abroad. Notes: The confidences of students are boosted by arranging various sessions of Japanese sessions. There is recognition and appreciation, and they are actively promoting. Noticeable positive change has been observed. All the eligible aspirants are accessed to placements in Japan. Practice: 2, Best Practices of Sona - CSRI Our Institution vision related to the CSRI is to provide Skill Training and Development in Salem. Goals The goal of this practice is to organize campaigns to promote awareness on skill development initiatives and Livelihood among the target group. To carry out baseline study in demand-driven business/Industry Sectors to analyze the Skill Gap in the industry and identify Training and Development and Employment potential. Offer need-based training with the employment support to deserving candidates. Offering Strategic support in Technical Education and Training ? Corporate Social Responsibility Initiatives ? Up-gradation of Industrial Training Institutes ? Career Guidance programmes in Schools Serve as Training Centre for State and Central Govt. Skill Development Initiatives Initiate appropriate technological intervention for the benefit of the rural community through Village Adoption Programme by utilizing the resources Engineering Departments, RD Centres, NSS volunteers of our College. The Context: To promote employability skills in different sectors for the benefit of the marginalized sections of the society and promote a decent lifestyle by enhancing their economic status. The Practice: Centre for Social Responsibility Initiatives has undertaken several initiatives to achieve women empowerment through skill development. CSRI is committed to promote Skill India mission by facilitating industry relevant skill trainings and lead them to a path of self-sufficiency through entrepreneurship. Skilling and up skilling initiatives such as employability skills, life skills education, sector specific work skills with internship and career counseling have been undertaken by SONA-CSRI to facilitate skill development among marginalized and disadvantaged women, unemployed youth, unskilled workers in various industries and business establishments and spur entrepreneurship and employability. Evidence of success: Achievements 2019-20: 1. Offered skill development and promotion of livelihood activities for the benefit of over 629 underprivileged candidates. 2. Involved Government, Corporate and community for delivering the service to the target groups 3. Involved in Village adoption under Unath Bharath Abhiyan for the benefit of the rural communities. Problems Encountered: Sourcing of the differently able person arises as a challenge but necessary campaigns are arranged to overcome the trouble shoot. Resources Required: The following sectors of skill training programmes have been identified as per the national Qualification Frame Work recommended by various Skill Sectors to the National Skill Development Council, Government of India. Associate Network Engineer

Hardware Engineer Domestic Data Entry Operator Associate Desk Top Publishing Sales Associate - Retail CNC Operator Plumber (General) Field Technician AC Unarmed Security Guard Handset Repair Technician (Cell Phone) Landscaping and Floriculture Beauty Therapist Assistant Hair Stylist Fashion Designer Hand Embroider Self Employed Tailor Housekeeper cum Cook Solar PV Installer Service Provider Assistant Electrician CCTV Installation Notes: To achieve our objectives, CSRI has partnered with Tamil Nadu Skill Development Corporation, AICTE, Indian Centre for Research and Development of Community Education (ICRDCE), Education Department and Social Welfare Departments in the district, Corporates and the community at large for the purpose of identifying potential skilling and employment opportunities, Schemes for the effective implementation of our programmes.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://www.sonatech.ac.in/IQAC/best-practice-19-20.pdf

7.3 – Institutional Distinctiveness

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

Best Industry link in Industry Institute Interaction Sona College of Technology has bagged the prestigious award for first time in the year of 2013 for 'Best Industry linked Institute in Computer Engineering and IT' category among 1050 survey participants and 37 shortlisted institutions. In the year 2015, the Sona College of Technology received this award from AICTE for 'Best Industry linked Electrical and Allied Engineering Institute' category among 1124 institute participants. Sona College of Technology has bagged again the prestigious 'PLATINUM' category certification in the AICTE-CII Best Industry Linked Technical Institutes-2016 survey. This is materialized based on the second level evaluation by the jury at the institution for the Department of Fashion Technology under Chemical Engineering and allied category. In year of 2017, AICTE – CII appreciated and awarded to Department of Civil Engineering of Sona College of Technology as 'Best industry linked Established – Degree Institution' category. For the year 2018, AICTE – CII appreciated and conferred the awards for the two departments namely mechanical Engineering and Fashion Technology of Sona College of Technology under the 'Best Industry linked Established – Degree Institution' category. It is another feathers added on SONA's crown. The Department of Fashion Technology and Department of Computer Science and Engineering Information Technology have won the 'AICTE-CII Best Industry linked Engineering Institution award' for the year 2019 -2020. The coveted award is bestowed upon Sona College of Technology by the All Indian Council for Technical Education (AICTE) in association with the Confederation of Indian Industry (CII) for the sixth time since the inception of the award in 2013. Out of 9832 institutions which have applied for the award, 39 institutions were shortlisted for final presentation. Of the 10 awards announced, Sona has bagged 2 awards making the moment indelibly marked in the annals of Sona. For the second time, Sona becomes the only institute to receive 2 AICTE-CII awards in a year across the country. Placement and Intern Sona College of Technology is always the most preferred educational institution for the Industries to find the best talents meeting their ever-changing knowledge and skill requirements. Sona has attracted more than 100 Companies giving more than 740 Job Offers (30 of Students fetching multiple Offers) with an average CTC of 4.5 LPA from Software Products Services Industry, like Amazon, CISCO, Optum Insight, OpenText, Qube, IBM, Infosys, TCS, Cognizant, Wipro, Hexaware , Robert Bosch, HCL Technologies, Tech Mahindra, Kaar Technologies, Vuram Technology, BNP Paribas, IVTL Infoview, SoqueTek, Deevita, SunTec, First American, Nexware, CGI, ATOS Syntel, etc.. catering to Telecommunications,

Automotive Vehicles, Pharmaceuticals, Banking Finance, Web Mobile Applications and Entertainment Sectors. For the Core Engineering branches, we have Elgi Equipments, Ashok Leyland, Rane, Tube Investments India, Brakes India, Renault Nissan, Gusti Tools, Worksbot, Uno Minda, Stanadyne, VectorWorks, URC Constructions, SS Group, Syrma Technology, Mistral Solutions, Axis Global Automation, Taegutec, VR Earthmovers, Aditya Birla Clothing, Gokuldas Exports, Human Resocia, Japan etc.

Provide the weblink of the institution
https://www.sonatech.ac.in/IQAC/institutional-distinctiveness-19-20.pdf

8.Future Plans of Actions for Next Academic Year

1. STRATEGIC PLAN The management decided to have a strategic plan for 5 year during 2019. A Strategic Planning Group comprising a team of staff members was trained on strategic planning. 11 Thrust areas were identified and thrust area managers were formed. 2. MIS Sona Soft- automation software for evaluation and monitoring for quality improvement was planned to be introduced. It has been decided to extend it to overall academic activities with faculty and staff modules. Under this the Digital Valuation Revaluation, Online students feedback, online open electives registration and Digital Faculty Record Book activities were planned. 3. PLACEMENTS The college had been consistently achieving high level of domestic placements in top companies with high CTC. It was decided to also achieve similar success in international placements. 4. AICTE-CII AWARD It was decided to leverage the strengths of the Fashion Technology Department which had consistently been getting the AICTE-CII Best Industry linked Department Award. Specific measures to be initiated to maintain the industry focus of the department and to also get the mentor status were envisaged. 5. ARIIA ranking Since the ARIIA ranking is a prestigious one which will boost the college's overall all image it was planned to get into the 'Band A' institution category. Activities were planned to continue to motivate the students to show their talents in the areas of innovation and entrepreneurship development and maintain an environment to excel and achieve. 6. RESEARCH AND PUBLICATION The college decided to boost the number of published articles in leading research journals and in conference. It was also decided that the faculty double the number of research papers compared to previous year. 7. VISHWAKARMA AWARD AICTE has instituted the Utkrisht Sansthan Vishwakarma Award to promote technology solutions from technical institutions for societal problems. Since Sona college has developed capability to come out with products that find solutions to day-to-day problems, it was decided to bag the award for 2020. Projects to be undertaken by various departments and research centres of the college were planned. 8. NIRF It was decided that the college should get into to the higher place in the ranking by National Institutional Ranking Framework (NIRF 2020), Ministry of Human Resource Development, Government of India. 9. INTERNATIONAL CONFERENCE Measures were discussed and planned for organizing Multidisciplinary International Conference on Applied Science, Technology, Management and Language Studies during 2020 with the objective of bringing together researchers and academicians working in various domains. 10. SMART INDIA HACKATHON It was planned to prepare the college teams to showcase talent and win the Smart India Hackathon 2020 organized by MHRD in association with AICTE. 11. ALUMNI RELATIONS As per the Chairman's suggestion, steps were planned to double the alumni membership which is 50 percent of the total number of alumni. It was decided to partner with Almashines, the alumni connect company for this purpose. Alumni engagement activities were planned to boost their participation in the overall development of the institution and to foster ties between them and current students.