



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution		SONA COLLEGE OF TECHNOLOGY
Name of the head of the Institution		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,
City/Town		Salem
State/UT		Tamil Nadu
Pincode		636005
2. Institutional Status		

Autonomous Status (Provide date of Conformant of Autonomous Status)	17-Sep-2010
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr.R.Vinod Kumar
Phone no/Alternate Phone no.	04274099771
Mobile no.	9865657392
Registered Email	iqac@sonatech.ac.in
Alternate Email	vinodkumarr@sonatech.ac.in

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.sonatech.ac.in/IQAC/AQAR%202017-2018.pdf
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4. Whether Academic Calendar prepared during the year

Yes

if yes,whether it is uploaded in the institutional website:
Weblink :

<https://www.sonatech.ac.in/downloads/calendar-2018.pdf>

5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	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
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	Date & Duration	Number of participants/ beneficiaries
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IQAC		
Internal Academic audit	06-Aug-2018 5	300
External Academic audit	11-Sep-2018 5	45
Internal Academic audit	11-Dec-2018 4	305
Pedagogy Training Programme	20-Jun-2018 3	50
Stress Management	21-Jun-2018 1	35
Stress Management and Work Life Balance	06-Aug-2018 1	45
IPR Protection and Importance of Patent Filing	19-Nov-2018 1	20
Induction Cum Refresher Programme for New Recruits & Other Faculty	18-Jun-2019 5	38
Workshop on Library Readers Club	29-Jan-2019 1	25
Programme on Increase the usage of e-Journals	13-Mar-2019 1	50
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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
Faculty	TDT/AMT	DST	2018 730	47.09
Faculty	DDP	DST	2018 365	20
Faculty	TDT/AGRO	DST	2019 730	61.54
No Files Uploaded !!!				

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 :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional

Yes

website	
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)

* External & Internal Academic audits for all programmes. *Revenue generation through R & D, Consultancy and Testing services. *Train the students in new technology as per industry requirement. *Training the students on Entrepreneurship through Sona Business Incubation. *Create awareness & improve ecological practices to conserve power and keep campus eco-friendly

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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 introduce new UG program for the year 20182019	New UG programme on Mechtronics was introduced during the year 2018 2019
New UG programme on Mechtronics was introduced during the year 2018 -2019	New UG programme on Mechtronics was introduced during the year 2018 -2019
To organize two pedagogy training programs for new recruited and senior faculties	Two pedagogy training programmes were conducted for new recruited and senior faculties
To motivate all faculty members to undergo 40 hrs industrial training	All the faculty members have undergone 40 hrs industrial training.
To ensure proper utilization of moodle, blackboard, LMS and LCS by all teaching faculty	All the faculty members have utilized moodle , blackboard, LMS and LCS.
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To ensure proper utilization of moodle, blackboard, LMS and LCS by all teaching faculty	All the faculty members have utilized moodle , blackboard, LMS and LCS.

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14. Whether AQAR was placed before statutory body ?	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Name of Statutory Body</td> <td style="width: 50%; text-align: center;">Meeting Date</td> </tr> <tr> <td style="text-align: center;">Management</td> <td style="text-align: center;">04-Nov-2019</td> </tr> </table>		Name of Statutory Body	Meeting Date	Management	04-Nov-2019
Name of Statutory Body	Meeting Date				
Management	04-Nov-2019				
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes				
Date of Visit	19-Sep-2018				
16. Whether institutional data submitted to AISHE:	Yes				
Year of Submission	2019				
Date of Submission	12-Jan-2019				
17. Does the Institution have Management Information System ?	Yes				
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>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, upto date and demand driven data and information for management functions including, 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. 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 well defined 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</p>				

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. SonaQMS 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.

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- 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.

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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

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	30/11/2018
ME	209	Structural Engineering	30/11/2018
ME	211	Construction Engineering and Management	30/11/2018
BE	102	Computer Science and Engineering	03/12/2018
BE	102	Computer Science and Engineering	25/05/2019
ME	201	Computer Science and Engineering	03/12/2018
ME	201	Computer Science and Engineering	25/05/2019
BE	104	Electrical and Electronics Engineering	05/12/2018
ME	206	Power System Engineering	05/12/2018
ME	205	Power Electronics and Drives	05/12/2018

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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	16/05/2018	U15GE501R-Soft Skills and Aptitude-III	16/05/2018
BE	Civil Engineering	16/05/2018	U15GE502R Professional Ethics And Human Values	16/05/2018
BE	Civil Engineering	16/05/2018	U15CE501R Structural Analysis-I	16/05/2018
BE	Civil Engineering	16/05/2018	U15CE502R Environmental Engineering	16/05/2018

BE	Civil Engineering	16/05/2018	U15CE503R Soil Mechanics	16/05/2018
BE	Civil Engineering	16/05/2018	U15CE902R Architecture and Town Planning	16/05/2018
BE	Civil Engineering	16/05/2018	U15CE904R Elements of Building Planning	16/05/2018
BE	Civil Engineering	30/11/2018	U15GE601AR Professional Development Skills	30/11/2018
BE	Civil Engineering	30/11/2018	U15CE601R Structural Analysis-II	30/11/2018
BE	Civil Engineering	30/11/2018	U15CE602R Design of Steel Structures (Limit State Design)	30/11/2018
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Information Technology	10/06/2019
MBA	Master of Business Administration	27/04/2019
BE	Mechanical Engineering	08/12/2018
BTech	Information Technology	25/05/2019
BE	Mechanical Engineering	03/05/2018
BTech	Fashion Technology	03/06/2019
BE	Electrical and Electronics Engineering	05/12/2018
BE	Computer Science and Engineering	25/05/2019
BE	Civil Engineering	30/11/2018
BE	Civil Engineering	16/05/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Civil Engineering	12/06/2018
ME	Structural Engineering	12/06/2018

ME	Construction Engineering and Management	12/06/2018
BE	Computer Science and Engineering	12/06/2018
ME	Computer Science and Engineering	12/06/2018
ME	Software Engineering	12/06/2018
BE	Electrical and Electronics Engineering	12/06/2018
ME	Power System Engineering	12/06/2018
ME	Power Electronics and Drives	12/06/2018
BE	Electronics and Communication Engineering	12/06/2018
ME	Communication Systems	12/06/2018
ME	VLSI Design	12/06/2018
BTech	Fashion Technology	12/06/2018
BTech	Information Technology	12/06/2018
Mtech	Information Technology	12/06/2018
BE	Mechanical Engineering	12/06/2018
ME	Engineering Design	12/06/2018
ME	Industrial Safety and Engineering	12/06/2018
ME	Product Design and Development	12/06/2018
BE	Mechatronics Engineering	12/06/2018
MCA	Master of Computer Application	12/06/2018
MBA	Master of Business Administration	12/06/2018

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
Industrial applications of Python	10/06/2019	50
Artificial Intelligence and Machine Learning	11/12/2018	26
Blockchain Architecture Design and Use Cases	28/01/2019	2
Computer Networks and Internet Protocol	30/07/2018	1
Data Base Management Systems	06/08/2018	3
Deep Learning	29/07/2018	1

English Language for Competitive Exams	30/07/2018	1
Introduction to Internet of Things	28/01/2019	1
Introduction to Machine Learning	27/08/2018	2
Programming in C	06/08/2018	15
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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	153
ME	Structural Engineering	24
ME	Construction Engineering and Management	21
BE	Computer Science and Engineering	307
ME	Computer Science and Engineering	11
BE	Electrical and Electronics Engineering	174
ME	Power System Engineering	11
ME	Power Electronics and Drives	6
BE	Electronics and Communication Engineering	368
ME	VLSI Design	10
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
<p>The 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 recent developments and feedback from stakeholders. Feedbacks regarding curricular aspects will be received from Alumni, Industry experts and Academicians (stakeholders) every semester and are reviewed by the BOS Sub-committee members. These inputs will be discussed at the department level with faculty members and students. The feedback constitute inputs and</p>

guidance from industry experts, experts' opinion obtained from recognized academic institutions (NITs, IITs, IISc, etc.), feedback from DCC, Survey (Course End Survey, Graduate Exit Survey, Alumni Survey). For foundation courses in Engineering, sub-committees are formed in all departments. Relevant and innovative suggestions related to the courses are considered for inclusion in the curriculum. The sub-committees 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. Based on feedbacks obtained from the various stakeholders through interactions / questionnaires / interviews / meetings, the sub-committee will finalize the curricula. The finalized curricula and syllabi of various semesters in a department will be presented and discussed in the Board of studies (BOS) meetings concerned for its recommendation for Academic Council approval. 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 curricula and syllabi of various programmes are regularly reviewed based on the feedback got from various stakeholders and shall be discussed and approved in the Board of studies meetings, Academic council and Governing body meetings. 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
ME	Structural Engineering	24	28	21
ME	Construction Engineering and Management	24	28	23
BE	Mechatronics Engineering	60	84	40
BE	Mechanical Engineering	180	303	142
BTech	Information Technology	120	233	108
BTech	Fashion Technology	120	184	86
BE	Electrical and	120	177	91

	Electronics Engineering			
BE	Electronics and Communication Engineering	180	282	138
BE	Computer Science and Engineering	180	339	157
BE	Civil Engineering	120	156	89
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	3907	648	57	36	232

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
325	325	4	70	120	5

[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 upgradation 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 benefitted 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
4555	325	14

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
276	325	0	5	127

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
2018	Dr. G. Ravi	Associate Professor	Teaching Excellence Awards 2018 by MT Research and Educational Services
2018	Dr. K. Thangaraj	Assistant Professor	Best Engineer Award - IEI Salem Local Centre
2018	Dr.K.G.Saravanan	Assistant Professor	Best researcher, International innovation and Betterment excellence in Technical research
2018	Dr. R. Gayathri	Assistant Professor	Distinguished faculty Award by Innovation Society India
2018	Dr. M.E. Paramasivam	Assistant Professor	Shri P K Das Memorial Best Faculty Award Life Time Achievement award
2019	Dr. M.E. Paramasivam	Assistant Professor	ISTE-U.P. Government National Award during the 48th ISTE National Annual Faculty Convention

2019	Dr.A.Jegan	Professor	Destination to Research (Technology Tune-in 2019) Tittan Watch Company, Hosur
2019	L.Gokulanathan	Assistant Professor	Destination to Research (Technology Tune-in 2019) Tittan Watch Company, Hosur
2019	Mr. P. Jayaprakash	Assistant Professor	University Level Best NSS Programme Officer Award, Anna University
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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
ME	202	1 / 1	21/01/2019	23/02/2019
ME	201	1 / 1	18/01/2019	23/02/2019
BE	108	1 / 1	23/01/2019	23/02/2019
BTech	107	1 / 1	23/01/2019	23/02/2019
BTech	106	1 / 1	23/01/2019	23/02/2019
BE	105	1 / 1	23/01/2019	23/02/2019
BE	104	1 / 1	23/01/2019	23/02/2019
BE	103	1 / 1	23/01/2019	23/02/2019
BE	102	1 / 1	23/01/2019	23/02/2019
BE	101	1 / 1	23/01/2019	23/02/2019
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
0	4555	0

2.6 – Student Performance and Learning Outcomes

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

<https://www.sonatech.ac.in/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the	Number of students passed in final year	Pass Percentage
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			final year examination	examination	
204	ME	Product Design and Development	10	10	100
202	ME	Communication Systems	14	14	100
201	ME	Computer Science and Engineering	11	11	100
107	BTech	Fashion Technology	110	110	100
106	BTech	Information Technology	131	131	100
105	BE	Mechanical Engineering	214	213	99.5
104	BE	Electrical and Electronics Engineering	139	139	100
103	BE	Electronics and Communication Engineering	185	185	100
102	BE	Computer Science and Engineering	141	141	100
101	BE	Civil Engineering	137	137	100
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2.7 – Student Satisfaction Survey

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

<https://www.sonatech.ac.in/IOAC/student-satisfaction-survey-2019.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. Chandrasekar

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

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. C. Saravanan	INSA Visting Research Fellow	01/06/2018	INSA - Indian national Science Academy
International	Dr. C. Saravanan	Visting Research Fellow	15/01/2019	Kyoto University, Japan
International	Dr.P.Uthirakumar	Research Professor	01/05/2018	Korea University, Korea
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3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	Department of Science Technology (DST)	25.69	4
Major Projects	730	Central Power Research Institute, Bangalore	17	5.1
Major Projects	1095	Department of Science Technology (DST)	79.13	2.47
Major Projects	1095	Indian Space Research Organization (ISRO)	15.95	6.72
Major Projects	730	Department of Science Technology (DST)	47.09	36.09
Major Projects	365	Department of Science Technology (DST)	20	19
Major Projects	730	All India Council for Technical Education (AICTE)	17.99	14.39
Minor Projects	365	The Institution of Engineers (India) (IEI)	0.2	0.2
Minor Projects	365	The Institution	0.25	0.25

		of Engineers (India) (IEI)		
Minor Projects	365	The Institution of Engineers (India) (IEI)	0.75	0.5
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

24

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
Seminar SAE Supra Race Car design	Mechanical Engineering	14/08/2018
Workshop on Machine Learning Artificial Intelligence	Mechanical Engineering	02/12/2018
Workshop on IOT (Internet of Things),Hands on Training	Mechanical Engineering	18/02/2019
Cost Estimation	Mechanical Engineering	23/03/2019
Personality development	Mechanical Engineering	05/07/2018
career opportunities.	Mechanical Engineering	27/07/2018
Motivation for young engineers	Mechanical Engineering	24/01/2019
Opportunity for young engineers	Mechanical Engineering	09/03/2019
Awareness on Intellectual Property Rights	IPR cell	15/09/2018
Patent filing Procedures	IPR cell	27/10/2018
Commercialisation of Patents	IPR cell	22/12/2018
IPR Protection and Importance of patent filing	IPR cell	19/11/2018
Proposal submission and Patent filing	IPR cell	06/04/2019
Intellectual Property Rights	Electrical and Electronics Engineering	01/06/2018
Modernization in Distribution System	Electrical and Electronics Engineering	14/07/2018
Industrial Drives	Electrical and Electronics Engineering	29/12/2018
Recent Trends in Industrial Electronics	Electrical and Electronics Engineering	31/12/2018

Recent Trends in Renewable Energy	Electrical and Electronics Engineering	24/01/2019
Automation Market Trends and Job Opportunities	Electrical and Electronics Engineering	07/02/2019
ECG Instrumentation	Electrical and Electronics Engineering	09/02/2019
Industrial Automation Communication Networks	Electrical and Electronics Engineering	24/02/2019
Carrier Opportunities	Electrical and Electronics Engineering	04/04/2019
Innovation ,IPR and Enterpreneurship	Electrical and Electronics Engineering	01/06/2018
FDP on "Embedded and IOT"	Electronics and Communication Engineering	28/06/2018
Training Program on "Sixth Sense Robotics" and Technex'18 IIT-Varanasi Event Series.	Electronics and Communication Engineering	27/06/2018
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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
Destination to Research	Dr.A.Jegan Prof/Mech L. Gokulanathan AP/Mech	Tittan Watch Company,Hosur	15/04/2019	Teacher
Dhothi Folding Machine	Mr.S.Mohanraj, Mr. P.Soundar Mr.P.Manikandan	TNSI AWARD with cash prize of 1 Lakh	28/02/2019	Student
AICTE -CII best industry linked institute	Dr.D.Raja,HOD/F T	AICTE , New Delhi	15/10/2018	Institution
AICTE -CII best industry linked institute	Dr.D.Senthilkumar HOD/MECH	AICTE, New Delhi	15/10/2018	Institution
Best Paper Award	Dr.P.Suresh	Trans Stellar	07/08/2018	Teacher
Best Researcher Award	Dr.K.G.Saravanan	International innovation and Betterment excellence in Technical research	12/11/2018	Teacher
Blind stick	Hari Prasad Chandrakumar	Ministry of Science and technology	06/10/2018	Student
Solar Tree	Hari Prasad Chandrakumar	MHRD- Smart India Hackathon 2018	18/06/2018	Student
ASIA-ARAB	Dr.R.Gayathri	Innovation	30/09/2018	Teacher

Submit Awards 2018		Society, India		
Power programmer	Mr. Jagathishwaran Ms. K C Nadhira Mr. U Udayakumar Mr. M Iyyanar Mr. A. Gokulraj	Hackwith Infy	06/09/2018	Student
View File				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
SBIC	Sona Business Incubation Center	Self	M/s Futuera	Services	15/07/2018
SBIC	Sona Business Incubation Center	Self	M/s KIDDO Protector	Services	15/03/2018
SBIC	Sona Business Incubation Center	Self	M/s BISMI COMMUNICATIONS	Services	22/03/2019
SBIC	Sona Business Incubation Center	Self	M/s Y B K COMMUNICATIONS	Services	22/03/2019
SBIC	Sona Business Incubation Center	Self	M/s ARUN NETWORKINGS	Services	03/04/2019
SBIC	Sona Business Incubation Center	Self	M/s ASHIMA Technologies	Manufacturing	14/04/2019
View File					

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	2
Electrical and Electronics Engineering	6
Electronics and Communication Engineering	6
Computer Science and Engineering	4
Information Technology	4
Civil Engineering	2

Fashion Technology	1
Mathematics	1
Science	2
English	1
Master of Computer Application (MCA)	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Mechanical Engineering	20	0.84
National	Mechatronics Engineering	1	0
International	Mechatronics Engineering	8	0
International	Electrical and Electronics Engineering	2	0
International	Electronics and Communication Engineering	25	1.8
National	Computer Science and Engineering	49	0
International	Computer Science and Engineering	33	3.5
National	Information Technology	3	0
National	Civil Engineering	13	0
International	Civil Engineering	3	5.8
View File			

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	32
Mechatronics Engineering	2
Electronics and Communication Engineering	51
Computer Science and Engineering	74
Information Technology	15
Civil Engineering	80
Fashion Technology	2
English	1
Master of Computer Application (MCA)	5
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Effect of recycled plastic wastes as Partial replacement for fine aggregate In manufacturing paver blocks	Filed	201941018623	09/05/2019
A Method for Providing Navigation Information for A Predefined Environment based on graph theory and Image Processing	Filed	201941021404	30/05/2019
A Pre-Processing device for image Analyzing system in fabric Defect Detection	Published	201741024492	30/08/2019
Eco friendly curtain wall panels	Published	201841000956	12/07/2019
Carbon Quantum Dots Covered Nano Dielectric Fluids and Its Preparation Methods Thereof -	Filed	201841031593	23/08/2018
An Assistive Electronic Device to operate Sewing Machines Thereof	Filed	201841044569	27/11/2018
A method of developing eco-friendly Multipurpose low cost Geopolymer Ferrocement panels and product	Filed	201841047829	18/12/2018
Improvement in mosquito repellency by coating green synthesised nano particles on textile fabrics and its preparation methods thereof	Filed	201941002470	21/01/2019
Carbon Quantum Dots Covered Nano Composite Solid Dielectric Materials and its Preparation Methods	Filed	201941012621	29/03/2019

Thereof			
Energy optimizing furnace (EOF) slag as An alternate material for constructing Eco-friendly precast road Separator	Filed	201941018622	09/05/2019
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
Process parameter optimization for multi fuel fired lime mud reburning kiln operation by taguchi method	Dr.D. Senthil kumar	Journal of science technology for forest products and processes	2019	0	Sona College of Technology	0
Enhanced Multi-Objective Teaching-Learning-Based Optimization for Machining of Delrin	V.Kaviarasan	IEEE access	2018	10	Sona College of Technology	1
Performance analysis on heat transfer characteristics of heat SINK with baffle attachment	Dr.D. Senthil kumar	International Journal of Thermal Sciences	2019	1	Sona College of Technology	0
Investigations and optimization of wall angle and surface roughness	Mr.M. Pradeep Kumar	Caribbean Journal of Science	2019	0	Sona College of Technology	0

in incremental forming of AA5052 aluminum alloy						
Environmental impact of VCR Diesel Engine characteristics using blends of cotton seed oil with nan additives.	Dr.S. Mahalingam	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	2019	2	Sona College of Technology	1
To study use of rubber seed oil Blends Diesel fuel at Various injection Pressures	Dr.S. Mahalingam	International Journal of Environmental Protection	2019	0	Sona College of Technology	0
Finite Element analysis of Bending and Dynamic Response of a power Transmission Spur gear	Dr.P. Suresh	Advances in Manufacturing Technology	2019	1	Sona College of Technology	0
Investigation of fatigue life and dynamic behaviour of magnesium alloy of an automobile connecting rod	Dr.P. Suresh	Caribbean journal of science	2019	0	Sona College of Technology	0
Simulation study of an augmented	Dr A Jegan	Caribbean journal of science	2019	0	Sona College of Technology	0

arm with variable mass for balancing long reach manipulators						
Development of numerical model for predicting the characteristics of Ni-SiC nano composite coatings on AISI100 substrate	Dr A Jegan	Materials Research Express (IOP Publishers)	2019	0	Sona College of Technology	0
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
Simulation study of an augmented arm with variable mass for balancing long reach manipulators	Dr A Jegan	Caribbean journal of science	2019	0	0	Sona College of Technology
Investigation of fatigue life and dynamic behaviour of magnesium alloy of an automobile connecting rod	Dr.P. Suresh	Caribbean journal of science	2019	4	0	Sona College of Technology
Finite Element analysis of Bending and	Dr.P. Suresh	Advances in Manufacturing Technology	2019	4	0	Sona College of Technology

Dynamic Response of a power Transmissi on Spur gear						
To study use of rubber seed oil Blends Diesel fuel at Various injection Pressures	Dr.S. Mahalingam	Internatio nal Journal of Environmen tal Protection	2019	6	0	Sona College of Technology
Environmen tal impact of VCR Diesel Engine cha racteristi cs using blends of cotton seed oil with nan additives.	Dr.S. Mahalingam	Energy Sources, Part A: Recovery, Utilizatio n, and Env ironmental Effects	2019	6	1	Sona College of Technology
Investigat ions and o ptimizatio n of wall angle and surface roughness in incremen tal forming of AA5052 aluminum alloy	Mr.M. Pradeep Kumar	Caribbean Journal of Science	2019	1	0	Sona College of Technology
Adiabatic behavior of gas wells due to natural reservoir fines migration: analytical model and CFD study	Dr.S. Mahalingam	Journal of Petroleum Exploratio n and Production Technology	2019	6	0	Sona College of Technology
Performanc e analysis on heat transfer c	Dr.D. Senthil kumar	Internatio nal Journal of Thermal	2019	7	0	Sona College of Technology

Characteristics of heat SINK with baffle attachment		Sciences				
Enhanced Multi-Objective Teaching-Learning-Based Optimization for Machining of Delrin	V.Kaviarasan	IEEE access	2018	3	1	Sona College of Technology
Process parameter optimization for multi fuel fired lime mud reburning kiln operation by taguchi method	Dr.D. Senthil kumar	Journal of science technology for forest products and processes	2019	7	0	Sona College of Technology
View File						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	17	63	91	88
Presented papers	108	120	3	29
Resource persons	0	4	5	12
View File				

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr. K. Selvaraj Prof.Immanuvel Department of Management Studies	Preparation of District Human Development Report	District Collector, Salem, Tamilnadu	227000
Dr. Malathy, HOD Department of Civil Engineering	Consultation in utilisation of silica sand in construction	EICL Ltd, Kerala	100000

Dr. Malathy, HOD Department of Civil Engineering	Consultancy in using of Plaxis 3D Software in Numeric Modeling for Onshore Wind Turbine	Amirtha School of Engineering	5000
Prof.Rajeswari, Department of Computer Engineering	Design and Development of Web and Mobile Application for Crew Monitoring System	Southern Railway, Salem Division	42374
DR.S.Padma, Department of Electrical and Electronics Engineering	Energy Audit	Voltech Engineering Pvt Ltd	15000
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of BLDC Motor	Vikram Sarabhai Space Centre Thiruvananthapuram	8908200
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of Permanent Magnet Stepper Motor	Vikram Sarabhai Space Centre Thiruvananthapuram	1464500
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design and Development of Brushless DC Torque Motor	Laboratory for Electro Optics Systems, Bangalore	11016000
DR.N.Kannan, Department of Electrical and Electronics Engineering	E-Bike Motor performance Consultancy	Mahindra Susten Pvt Ltd	10000
DR.N.Kannan, Department of Electrical and Electronics Engineering	Design Development of miniature reaction wheel	Research Centre Mart	1071000
View File			

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

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Master of Business Administration	Business Intelligence for Retail Marketing Professionals	Micro Small and Medium Enterpri ses (MSME)	42480	12

Master of Business Administration	Management Development Programme on Managerial effectiveness	JSW,Salem	397660	30
Master of Business Administration	E Learning Tools for the New Education Era	JSW ,Salem	38350	13
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
Sona Engineering Freshers Day	Sona College of Technology	100	200
Independence Day Celebration	Sona Group of Institutions	50	100
Unnat Bharat Abhiyan (UBA) Survey- II	Sona NSS Sona CSRI	15	100
Alumini Meet	Sona College of Technology	25	100
Unnat Bharat Abhiyan (UBA) Survey- I	Sona NSS Sona CSRI	15	100
Unnat Bharat Abhiyan (UBA) Survey- I	Sona NSS Sona CSRI	15	100
Cleaning Event	Sona NSS	5	70
Arts Freshers Day	Sona College of Technology	50	100
Orientation Program	Sona NSS	4	110
Yoga Day Celebration	Swami Sivanandha Yogasana research center at Madurai	30	100
View File			

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
Best Program officer Award	Anna University Best Programme officer Award Dr.P.Iyyanar	Anna University, Chennai	1000
Best Volunteer	Anna University	Anna University,	1000

Award	Best Volunteer Award S.Soniya FT	Chennai	
Basic First Aid Camp	Salem Super Star	Kauvery Hospital, Salem	125
World Heart Day Marathon	Best Volunteering award	Kauvery Hospital, Salem	125
Blood Donation Camp	Certificate of appreciation	Govt.Blood bank, Salem	60
Clean and smart campus award	Clean and smart campus award	AICTE, New Delhi	4000
Jal Shakti Abhiyan	Jal Shakti Abhiyan	AICTE, New Delhi	500
View File			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat	NCC	Swachh Bharat (at Sona College of Technology)	1	24
Swachh Bharat	NCC	Swachh bharat(at salem govt museum, anjeneyar temple)	2	41
Sweep Rally	Sona Nss Salem Collectorate	Promotion of Voting	3	70
Swachch Bharat	Sona Nss Salem Southern Railway	Cleaning Event	3	50
Disaster Management Awareness Program	Sona NSS National Disaster Response Force, Arakonam	Disaster Management Awareness Program	10	300
World Hand Washing Day	Sona NSS Salem District Administration	Awareness on Handwashing	50	4000
100 Vote Promotion	Salem District Collectorate	Promotion of Voting	20	30
Swachch Bharat	Salem SAIL Sona Nss	Cleaning Event	3	100
Unnat Bharat Abhiyan (UBA) Survey- II	Sona Nss Sona CSRI	Survey	15	100
Unnat Bharat Abhiyan (UBA) Survey- I	Sona Nss Sona CSRI	Survey	15	100

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
Industry Interaction by Faculty	M. Suresh and V R Srinivashan	Sona College of Technology	1
Industry Interaction by Faculty	Dr.A.Jegan & L. Gokulanathan	Sona College of Technology	2
Research	A.Jegan	Titan company limited	180
Research	V.Kaviarasan	UCSI University ,Kulampur Malasiaya	240
Industry Interaction by Faculty	Mr. M. Manimurugan, & V.Kaviarasan	Sona College of Technology	3
Industry Interaction by Faculty	Dr.R.Mohan & A.Sivapragasam	Sona College of Technology	18
Industry Interaction by Faculty	A.Mahendran,,M. Srinivasan & S. Aravindabalaji	Sona College of Technology	3
Industry Interaction by Faculty	A.Mahendran,& S.Sangeethkumar	Sona College of Technology	1
Industry Interaction by Faculty	B. Iniyaraja ,P. Manikanda Prabu and A.Sivalingam	Sona College of Technology	5
Industry Interaction by Faculty	Dr. A. Ranjithkumar & L. Gokulanathan	Sona College of Technology	2

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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	Training	Triummph honda	19/05/2019	01/06/2019	Santhosh kumar R
Internship	Training	Triummph honda	19/05/2019	01/06/2019	Satheesh kumar P
Internship	Training	Triummph honda	19/05/2019	01/06/2019	Sandilyan A

Internship	Training	SAIL Refractory company LTD, Salem.	11/06/2018	16/06/2018	Parameshwara n K
Internship	Training	SAIL Refractory company LTD, Salem.	11/06/2018	16/06/2018	Praveen Kumar PR
Internship	Training	SAIL Refractory company LTD, Salem.	11/06/2018	16/06/2018	Sakthi M
Internship	Training	SAIL Refractory company LTD, Salem.	11/06/2018	16/06/2018	Sajid Mohamed K
Internship	Training	SAIL Refractory company LTD, Salem.	11/06/2018	16/06/2018	Prahatheeshwaran S
Internship	Training	SAIL Refractory company LTD, Salem.	11/06/2018	16/06/2018	Sabareesh S
Internship	Training	SAIL Refractory company LTD, Salem.	11/06/2018	16/06/2018	Sasivaraman N
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Festo India Pvt. Ltd.	27/11/2018	Consultancy and Research and Development	20
Titan Company Ltd	18/01/2019	Consultancy project , Research and Development	10
Virya Mobility 5.0 LLP	30/04/2018	Design, development and testing of advanced electric motors	10
Acharya Electronix (NDA)	27/04/2019	Development of motors	10
J K FENNER (INDIA) LIMITED	17/05/2019	Projects and Training	415
Axis Global Industrial Automation, Chennai	01/12/2018	Purpose: benefits of students Activities:	80

		conducting FDP and workshops in the field of Embedded System	
Varpas Media Technologies	27/08/2018	Purpose: benefits of students Activities: Training, Placement, Sharing of facilities, Joint venture programs, sponsored projects, strengthening of VLSI Laboratory(Centre of Excellence) and RD activities	70
Test and Verifications Private Limited	12/12/2018	Course Certification	150
Redhat	18/09/2018	Joint conference, seminars, workshop and short term courses	50
NottinghamTrent University	05/11/2018	Conduct of seminars /counselling session for overseas education opportunities	50
View File			

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
970	950.05

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added

Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
View File	

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
AUTOLIB	Fully	2.1	2017

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	88204	29430969	456	241181	88660	29672150
Reference Books	3722	5364861	250	240318	3972	5605179
e-Books	14	89944	428	0	442	89944
Journals	203	654811	22	57176	225	711987
e-Journals	0	0	4	1685073	4	1685073
Digital Database	3676	33120	2	587640	3678	620760
CD & Video	2482	277334	12	1200	2494	278534
Library Automation	1	157500	0	0	1	157500
Weeding (hard & soft)	0	0	0	0	0	0
Others (specify)	0	0	1	11500	1	11500

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Mr. N. Selvanathan	Data Structures lab using C	Moodle - Jail	02/07/2018

[View File](#)

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	1893	844	205	32	0	95	896	205	26

Added	46	7	0	0	0	2	36	0	1
Total	1939	851	205	32	0	97	932	205	27

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	www.sonaversity.org
LECTURE CAPTURING SYSTEM (LCS)	http://182.73.107.187/impartus/login.aspx

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
124.9	126.48	182	183.47

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)

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 college is keen to create state-of-art infrastructure that also satisfies the standards and norms of AICTE with respect to human resources (Faculty, Technical and Administrative Staff), laboratory equipment, built-up place, learning resources, (print and electronic and teaching learning aids). Whenever intake is upgraded and new courses are introduced, institution creates additional facilities. The infrastructure requirements are planned accordingly. ? To plan for classrooms as per the requirements. ? The establish laboratory as per the syllabus. ? To have seminar halls and board rooms. ? To provide amenities like canteen, transport, playground etc. ? To establish classrooms and laboratories for newly sanctioned departments. ? To include infrastructure to accommodate the increase in student strength in the existing departments. ? To purchase books for central library and departmental library to meet the requirements. Optimal utilization By constant monitoring and encouraging the staff and student, it is ensured that the facilities are very well utilized. The college has a policy for creation and enhancement of infrastructure. Recent initiative ? Recently we have introduced lecture capture system (lectures are videographed) in considerable number of class rooms covering all departments. ? The students can download the videos and learn leisurely impartus link. ? Recently an exclusive class room and faculty room has been constructed and it is being utilized. It is a GREEN Building (5 - star status) certified by GRIHA. ? The CSE-IT-FT block is being provided with an additional floor (4th floor) construction completed. ? We are constructing a new building/block as University Block with a museum, library, seminar hall, board room, Principal and Director chambers, Chairman's residence etc. It is a G6 building. It is a highest building in Salem city. ? We have 88 well-furnished laboratories. Sona College of Technology has a Central Library. It is a treasure trove of knowledge. It is revered by faculty members and students as a shrine. It has an excellent collection of books, journals, and

documents in science, engineering, technology, humanities, social sciences, management and self- development. It has a plethora of dictionaries, encyclopedias, compendiums, reference books, standards, bound volumes of journals, technical reports, theses, and other resource materials in digital form - video cassettes, compact discs, and microfilms. The Central Library and Department Libraries are home for a large collection of project cum research reports by students of M.E., MBA, and MCA programmes. Ph.D. theses of staff members are in the central library. M.E / M.Tech thesis and UG project reports are available in the department libraries. Sona College of Technology is an institutional member in framing and implementing the programme: Developing Library Network - DELNET. DELNET provides resource sharing among the member libraries and offers networking services to the users. Through DELNET, we get information about rare books, documents, and manuscripts. The College provides all departments with facilities like office room, common room, separate rest rooms for women students and staff. The details are presented below. Sl.No

Department Office Room (No.) Common Room (No.) Restroom for Men and women students (No.) Restroom For Staff (No.) 1. Civil 1 - 8 - 2. Mechanical 1 2 6 3 3. EEE 1 1 6 3 4. ECE 1 1 6 1 5. CSE 1 - 3 1 6. IT 1 - 3 1 7. FT 1 - 3 1 8. Science and Humanities 1 1 3 2 9. MBA 1 1 3 3 10 Green building 2 2 3 6 To ease

the hardship endured by disabled students and staff, We have provided rest rooms with special arrangements in every block for the exclusive use of disabled persons. Furthermore, if there are too many steps to reach a block, gently sloping ramps with side handrails have been provided. For disabled students the class rooms/exam halls are shifted to ground floor wheel chairs are employed to conduct and used for disabled students/staff. The college has excellent computing facilities. The details of the college's computing facilities (hardware and software) • Number of system with configuration

SYSTEMS CONFIGURATION Quantity Servers DELL POWER EDGE SERVER Intel Xeon E5-2620 V3 2.4GHz, 15 MB Cache, 6 Core / 12 Threads 2 x 600 GB SAS Hot Plug Hard Drive, 32 GB RAM 15 HP ProLiant BL280C G6- BLADE SERVER Quad-core Intel Xeon Processor E5504 Processor 4GB PC3-10600E-9 RAM HP 250 GB 1.5G SATA 5.4K NHP SFF ETY HDD for BL280C (6 Nos) DELL / HP / HCL Intel Xeon Processor, 8 GB RAM, 1 TB HDD Core i7 Intel Core i7 (4 Ghz , 8MB), 500 GB HDD, 2 x 4 GB DDR 3 RAM, 18.5" TFT Monitor 12 Core i5 Intel Core i5 (3.3 Ghz , 6MB), 500 GB SATA HDD, 8 GB DDR 3 RAM, 18.5" TFT Monitor 503 Core i3 Intel Core i3, (3.3 GHz / 3MB), 500 GB HDD, 4GB DDR 3 RAM, 18.5" TFT Monitor 189 Core 2 Duo, Core 2 Quad, Dual Core Intel Core 2 Duo (1066 MHz, 3 MB), 250 GB HDD, 2 GB DDR II RAM,18.5'' TFT Monitor 843 P IV Intel Pentium IV @ 3.0 Ghz / HT, , 80 GB HDD 512 MB DDR II 400 RAM, 15" Digital Color Monitor 238 TOTAL 1800 HARDWARE

SPECIFICATION PROCESSOR Intel [R] Xeon® CPU E5320 @1.86 GHZ 1.87 GHZ RAM 4.00 GB SYSTEM TYPE 32 - bit Operating System OS Server 2007 Enterprise HARD DISK CAPACITY 250 GB • LAN facility All the1800 system are connected through LAN. •

Wifi facility Our college campus is entirely furnished with wifi facility through Access points provided at various places. • Number of nodes/computer with internet facility Our college has 205 Mbps Leased Line connected with 1800 systems. Computers are well maintained by a division called "Computer Maintenance Group (CMG)" in the Institution under the control HOD/ CSE and HOD

/IT. The CMG team consists of Two System Administrators and One Network Engineer along with Eight Technicians. This division provides the integrated IT services like procurement of systems and software, campus network establishment, providing internet connectivity, troubleshooting the hardware and software problems. In case of any hardware or software problems, the faculties can register their complaints through Management Information System (MIS) and the CMG team will troubleshoot and provide the solution. The systems are regularly upgraded with latest configuration through buyback policy of old systems and the non-repairable systems are disposed off. Recreational facilities like gymnasium, yoga centre, etc., Recreational facilities for boys and girls are very good. We have a very large playground of about with are

16,000 sq.m, a good and spacious indoor game court of size 21mx 17m (357 sq.m). A swimming pool of size 25 m x 15 m with volume 5 Lakhs litre water is available. All the facilities are established in the year 1997. All the boys and girls of hostlers and staffs of our college are utilized this facilities. The details are presented below. Medical centre with essential medicines and facilities are available. One doctor and one attendant are always available in the clinic. Emergency cases are attended to immediately with utmost care. 1.

For the past 22 years, the college runs a health centre and attends to the health and hygiene of students and staff members. 2. The health centre provides various first aid treatment and if when required patients are referred to nearby hospital like Aishwaryam, Gokulam, Shanmuga Hospitals. 3. It has been of great help to the students and others in the college as all the necessary health support facilities are provided in the medical centre. 4. The college has provided an opportunity to part time and fulltime staff members to give their service to the sick. 5. Records on the health status of student and staff members who are visiting the clinic are maintained by the Health centre. 6. First aid medicines are provided for immediate relief without which the student means some to seem help from doctors outside the college. 7. Minor surgical procedures like suturing of wounds are carried out and subsequent wound care (dressing the wound) measures are taken. A large playground, basketball court, tennis court, volley ball court, athlete - track and field, indoor stadium, gymnasium, yoga floor and swimming pool are available. Sportspersons are constantly encouraged to participate in competitive events by way of granting sports - scholarships, cash prizes and waiving of fees, Annual sports events are conducted for students and staff members separately. Cultural activities are conducted for college level and department level for every year.

<https://www.sonatech.ac.in/IQAC/procedures-policies.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Management Scholarship	549	3489000
Financial Support from Other Sources			
a) National	Government Scholarship	1508	22047780
b) International	0	0	0

[View File](#)

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
Speakers Forum	01/07/2018	3907	Sona College of Technology
Spoken Tutorial	01/07/2018	3757	Sona College of Technology
Mentoring	27/06/2018	4555	Sona College of Technology
Personal	27/06/2018	4555	Sona College of

Counselling			Technology
Yoga and Meditation	16/08/2018	851	Sona College of Technology
Transit courses for lateral entry students	01/06/2018	14	Sona College of Technology
Remedial coaching	27/06/2018	4555	Sona College of Technology
Soft Skill development	27/06/2018	2850	Sona College of Technology
Career Counselling	27/06/2018	1260	Sona College of Technology
Guidance for competitive examinations -SWADESH-III	07/02/2019	44	Sona College of Technology
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	SWADESH -III	44	44	0	0
2019	GATE Coaching	111	111	7	0
2018	SONA Placement Training	0	1379	0	713
2019	Training-Studying Abroad	124	124	5	0
View File					

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		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
ITC, CBE	4	3	KARVY, HYDERABAD	5	1

[View File](#)

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.TECH	FT	Sona College Of Technology, Salem	M.B.A
2019	1	BE	CSE	PSGR Krishnammal College for Women , Coimbatore	M.B.A
2019	1	BE	CSE	Sona College Of Technology, Salem	ME-CSE
2019	1	B.TECH	IT	Muthayammal Engineering College, Rasipuram	M.E
2019	1	B.TECH	IT	Ludwig-Maximilians-Universität München, Germany	M.S
2019	1	B.TECH	IT	PSG Institute of Technology, Coimbatore	M.B.A
2019	1	B.TECH	IT	MEASI Institute of Management, Chennai	M.B.A
2019	1	B.TECH	IT	RMK Engineering College , Chennai	M.E
2019	1	B.TECH	IT	Sona College Of Technology, Salem	M.B.A
2019	3	B.TECH	IT	Sona College Of Technology, Salem	M.Tech

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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	10
CAT	1
TOFEL	2
Any Other	9
View File	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Department of Information Technology organized a Coding Event Dream Run '19.	Institution Level	438
Department of Information Technology organized a State level project Expo Ignite '19 on 13-02-2019.	National level	100
Department of Information Technology organized a State level technical symposium PORT '19 on 13-02-2019.	National level	300
Institution of Engineers (India), in association with Department of Information Technology, Sona College of Technology, Salem organized a National Conference on "Data protection and Privacy" on 28-03-2019 to 29-03-2019.	National level	4555
Triathlon (Three - stage coding event) is conducted in association with NIT, Trichy on 24-01-2019 to 25-01-2019.	Institution Level	3907
Department of Information Technology organized Intra Department Symposium Verve'19 on 13-02-2019.	Institution Level	438
Department of Information Technology organized Intra Department Symposium Verve'18 on 28-09-2018.	Institution Level	438
Sports day on 13th March 2019.	Institution Level	4555
Salem SONA Sports League	State Level	750

(3SL 2.0), a mega state level sports fest from 7th to 11th January 2019.		
Anna University Zone men Tennis Tournament at sona campus on 22nd Sep 2018.	Zonal Level	25
View File		

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Gold Medal	National	1	0	1515103711	G. Hariharan
2018	Gold Medal	National	1	0	1517104040	S. Kavya
2018	Silver Medal	National	1	0	1517104040	S. Kavya
2018	Gold Medal	National	1	0	1515102117	R.Vadivel
2018	Bronze Medal	National	1	0	1515102117	R.Vadivel
2018	Gold Medal	National	1	0	1515103711	G. Hariharan
2018	Bronze Medal	National	1	0	1515103711	G. Hariharan
2018	First Prize	National	0	1	1517107021	M. Geetha sri
2018	Second Prize	National	0	1	1517107071	S.M.Shri Vaibavaa
2018	Second Prize	National	0	1	1516107028	Jamila Thahseen S
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

The college has an active student council which helps the students to actively participate in the development of the institute and also develop their career, personality and organizational skills through interactive programs with the faculty, administration and society. The goal of the student council is to provide a common platform to students for co-curricular and extra-curricular activities. There are various technical and non-technical clubs run by the students in the institution. The elected members and student volunteers organize various events under these clubs. There are different general clubs in the college, which help the students to associate with the club based on their interest. An overall faculty coordinator is appointed by the institution for monitoring the activities taking place in each club. For each club, there is a separate faculty coordinator who is responsible for managing all the activities conducted by the students in the club. An election is conducted at the beginning of every academic year to elect the club members under the supervision of the overall faculty coordinator and the concerned club

coordinator. Each club has a chairman elected from the overall final year students and Secretary from the overall third year students. The students from the institution who are interested in a particular club can associate themselves with the club. The Chairman and Secretary of the concerned club are responsible for conducting various awareness programs for the benefit of the student. The different clubs available are NCC, NSS, YRC RRC, Fine Arts Association, Tamil Mandram, Aptitude IQ Club, WEC, The English Club, Sonaria Music Club, Science Club, Tremors Club, Readers Club, Sona Speaker Forum. This academic year we have included two more clubs to improve the students Speaking and Reading Skills. The aim of the Readers Club is to make the students understand the importance of reading books and the Sona SSF has been constituted with the aim of making students to become good speakers with Accuracy, Brevity, and Clarity. Each Department has separate election for electing their Chairman from the final year, Secretary from the third year and a representative for each section in the concerned department. The Chairman and the Secretary are responsible for organizing various seminars, workshop, and symposium. The chairman under the supervision of their HOD will spearhead the council activities such as planning, executing and monitoring the calendar of activities across the academic year. Each class in the department has set of student representative who are responsible for representing the problems faced in the class. Students are involved in the Board of Studies for framing the curriculum and syllabus. Final year student representatives were involved in the department meeting while framing the curriculum. The suggestion given by the student representatives will be incorporated and presented to the Board of Studies Members. Student representatives were asked to attend the Board of Studies meeting to represent the issues faced by the students. Students can also represent their problems through the Suggestion box, Class Committee meeting, Mentor meeting, Hostel meeting, Anti Ragging Committee and Disciplinary Committee.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Sona College of Technology has an officially registered Sona Alumni Association (SAA) (Reg. No. 66 of 2018). Sona Alumni Association (SAA) has alumni who are the torch bearers of Sona in different parts of the world. The SAA is an independent, non-profit membership organization founded on 10 Jan 2000 by Sona College of Technology, Salem, India. The association endeavors to strengthen the ties among its alumni by addressing the concerns of members with a view to learn and adapt to changes that are necessary. The Sona Alumni Association works as an interface for maintaining the relationship with the alumni and to involve them in the development and growth of the institution. The management body of Sona Alumni Association includes Chairman, Vice Chairman's, Professor, Faculty members from each department and Alumni's. The vision of SAA is to establish a strongly connected SONA Alumni Association, which acts as a bridge between the students, management, staff and alumni of Sona College of Technology for mutual benefit and synergy. Sona Alumni Association believes in fostering a strong alumni network that not only helps former students remain connected but also provides an avenue for the philanthropic spirit of successful alumni. The SAA will provide a platform for sharing intellectual, cultural, career and professional experiences not just with the present students, but also with other alumni. The Sona Alumni Association will also interact with the alumnus for the campus drive and also for signing MoUs. Sona Alumni is made to involve in different activities such as • Bos member for the development of the curriculum. • Industrial mentor to enhance the students' knowledge with respect to industry standards in the current area. • Giving guest lectures to enrich the student skills. • Giving training for the final

year and third year students. They conduct Mock interviews, Group Discussions which helps the students to face the campus drive. The main objectives of SAA

1. Provide Technical Moral support to SONA alumni to conduct Research.
2. Encourage social networking and support gatherings for SONA alumni all across the globe.
3. Encourage the alumni to publish e-articles.
4. Encourage and support the budding engineers with sharing experiences of alumni in different domains.
5. Encourage the alumni to participate in the Projects Placement of Sona students.
6. Maintain a directory of the alumni.
7. Help the alumni to maintain contacts with the college and their friends through e-chat.
8. Arrange annual gatherings of the alumni and enroll fresh members. Alumni Day is being organized every year as a calendar event by the Management to bring the alumni of various departments to celebrate their memories with college and contribute back wisely to the college through support in placement, career guidance for the present students. Based on the convenience of the Alumni, Alumni chapters are held up at various geographical locations to better connect with them. Alumni Coordinators of the departments play a significant role in organizing the Alumni day and Alumni chapter leading it to grand success.

5.4.2 – No. of registered Alumni:

18858

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

1789500

5.4.4 – Meetings/activities organized by Alumni Association :

1. Alumni meet was conducted in Colombo on 17.06.2018. 2. Alumni Meet '18 was organized in the name of RETROSPECT '18 for all batches and branches on 11th August 2018. 3. Alumni Hosur chapter was held on 31.05.2019. 4. Alumni meet conducted by the Department of Fashion Technology on 21.04.2019 5. Alumni meet conducted by Department of Civil Engineering on 14.08.2018 6. Alumni meet conducted by each department after the Graduation day on 29.06.2019

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)

Department Consultative Committee (DCC): In every department has Department Consultative Committee (DCC) which comprises of HOD as the chair person and 4 or 5 senior faculty members. DCC members regularly meet with the department faculties and takes necessary steps to formulate and implement strategic plans of the department. The role of the DCC is to review and approve industries or other identified organizations for industrial training, internship or project work for students. They also approve the MOOC courses that a student can undergo and initiate the credit transfer once the students complete the courses successfully. The committee identifies the courses offered by industry and ensures the conduct of those courses by the Industry expert. The committee approves the marks obtained after the evaluation done by the industry experts and are submitted to the Principal for credit transfer.

Research and Development(RD): Every Department has a vision to widen the research and development activities in the field of emerging areas like nano-technology, robotics, automation, etc. In our institution, all the RD centres have been decentralized and monitored by the department heads or senior research heads. Our Institute's commitment to advanced research in the areas of science, engineering and technology has nurtured thirty plus centres of excellence. Every department is encouraged to have at least one such centre. Many departments have established two/three centres each. These centre heads will

present the progress of their research activities before the management once a fortnight. To encourage the faculty and students of Sona College to carry out consultancy projects and testing services for industry, the management provides 60:40 sharing in the net revenue of such projects. The centres focus primarily on applied research, product development, learning-resources development and training of industry personnel. All these centres have in place advanced equipment and current technology. There is a strong tendency towards inter-disciplinary research, especially in the areas of nano-technology, robotics, automation, etc, that generates new ideas and promotes the development of innovative products and processes. Both the faculty and the students alike contribute to the research, development and innovation at Sona. The individual department research centres are monitored and controlled by the centre heads. The management gives full support in terms of finance and human resources to encourage application of patents submit research proposals, publications, participation in conferences and workshops, etc. The Top Management gives ample freedom and flexibility to all the heads of the department lead all the Academic and Research and Development.

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	A regular assessment of the CBCS 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. The curriculum and syllabi are revised from time to time. 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 finalised curriculum is reviewed in the discipline-wise Boards of Studies and the recommendations are tabled at the Academic Council meeting for approval.
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. 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

- Office of the Controller of Examinations evaluates the progress of the students periodically through Continuous Internal Evaluation (CIE), Moodle/Blackboard Test and Semester End Examinations (SEE) for theory, practical and Lab integrated theory courses.
- Question paper (QP) for CIE test is being prepared by internal faculty, whereas SEE QP papers are prepared by External and Internal faculty (2:1). QPs are scrutinized by department heads. Evaluation of answer scripts is done by both internal and external faculty members in the ratio of 1:1.
- Further process includes conduct of examinations, publishing results, revaluation/photocopy, printing grade sheets of the students of all UG and PG programmes in both semesters (ODD and EVEN).

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.

Library, ICT and Physical Infrastructure / Instrumentation

- The central library of the college is a repository of a vast number of learning resources including textbooks, reference books, national and international journals, digital resources, online journals, etc., all of which are enriched every year and

	<p>software for tracking resource availability and an automated system for book/journal transactions. • 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.</p>
<p>Human Resource Management</p>	<p>In order to improve the quality to match the Industry requirements, our Institution has its own various Research Centres. 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 appraisal has combination of teaching learning updated methods, innovative ideas more weightages given to paper publications. Our standard of taking feedback from the students is equivalent to the standards of National Board of Accreditation. 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.</p>
<p>Industry Interaction / Collaboration</p>	<p>• 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.</p>
<p>Admission of Students</p>	<p>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</p>

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-governance area	Details
<p>Planning and Development</p>	<p>1. Student Semester Description: used to get semester wise information of a student. Updation: Updated as per the Need 2. Subject Details Description: interface to enter subject master which includes regulation, course, branch, semester, sub code, subject name, nature, subcategory, Number of hours and other details of the subject. Updation: updated every beginning of the semester. 3. Subject Staff Description: interface to enter staff for a particular subject section wise for all branches and semester. Updation: updated every beginning of the semester and updated as per the requirement of staff. 4. Multi subject Batch Description: interface to allot subject to each student for each semester in the master. Updation: updated during every beginning of the semester and also as per the need. 5. Leave Details Description: used to enter the leave days during the semester. Updation: updated every beginning of the semester and if unexpected leave occurs.</p>
<p>Administration</p>	<p>1. Multi Attendance Description: entry Form to enter the attendance of a student for each and every hour of the day. Updation: updated for every working day of a student. 2. Test Schedule Description: Used to enter the schedule for Cyclic Test for both theory and lab Updation: updated during every cyclic test 3. Test Marks Description: used to enter the marks obtained in a cyclic test for each</p>

student Updation: updated after every cyclic test is finished 4. Practical Internal Mark Description: used to enter the internal mark for practical at the end of the semester Updation: updated during end of each semester 5. Class Time Table Description: used to enter the section wise time table for each semester Updation: updated every beginning of the semester and as per the need STAFF 1. Staff Entry Description: Used during the appointment of a new staff to generate a unique staff code and status of the staffs are updated like relieving, on leave. Updation: updated as per the requirement to update the status. 2. Personal Details Description: Entry form to enter the personal details for each staff Updation: updated as per the requisition of a staff 3. Communication Details Description: Entry form to enter the communication details for each staff. Updation: updated as per the requisition of a staff. 4. Relation Details Description: Entry form to enter the family details for each staff. Updation: updated as per the requisition of a staff. 5. Education Details Description: Entry form to enter the Educational details for each staff. Updation: updated as per the requisition of a staff. 6. Previous Experience Details Description: Entry form to enter the previous experience details for each staff. Updation: updated as per the requisition of a staff. 7. Publications Description: Entry form to enter the Publications like journal, conference details of each staff. Updation: updated as per the requisition of a staff. 8. Research and Development Description: Entry form to enter the Publications funds received details for the research project and the name of the funding organization. Updation: updated as per the requisition of a staff. 9. Membership Description: Entry form to enter the membership details Updation: updated as per the requisition of a staff. 10. Conference Presented Description: Entry form to enter the papers presented in conference and the details like title, date, name of the conference. Updation: updated as per the requisition of a staff.

Finance and Accounts

1. Fee Structure (SWS/MQ) Description:

Entry form for entering the structure of semester/Year wise fees for each branch based on the batch for SWS/MQ. Updation: Updated during beginning of each Semester/Year. 2.Fee Structure(FN/Re-Admission/Transfer) Description: Entry form for entering the structure of fees, Semester/Year wise for each branch based on the batch for FN/Re-Admission /Transfer.. Updation: Updated during beginning of each Semester/Year. 3.Fee Receipt Description: Entry form to enter the fees for the particular student. Updation: updated during the time of fees paid by the student. 4.Fee Receipt First Year Description: Entry form to enter the fees for the particular student. Updation: updated during the time of fees paid by the student 5.Fee Deduction (Schemes) Description: Entry form to enter the Deduction fees for the Categories such as SC ST Scheme, First Graduate and Fees Waiver. Updation: updated during the beginning of the year/semester. 6.Fee Refund (General) Description: Auto generated refund fees will be displayed for the general students if any. Updation: updated during the beginning of the year/semester. 7.Fee Refund (Discontinued) Description: Auto generated refund fees will be displayed for the discontinued students if any. Updation: updated during the beginning of the year/semester. 8.Fee Refund (Caution Deposit) Description: Auto generated refund fees will be displayed for the Particular students if any. Updation: updated as per the requirement. 9.Export To Tally (Fees) Description: This form will display the fees details paid by the student date wise and that data will be exported to tally. Updation: updated as per the requirement. 10.General Receipt (Master) Description: This from contains fee code and group code and also used to add tally ledger name. Updation: Updated during the time of new fee code and group code is added. 11.General Receipt Description: Entry form to Generate receipt for fees like Exam Fees, Testing Fees, sundry advance , etc., Updation: Updated during the time of fees collection. 12.Export To Tally (General Receipt) Description: This form will display the fees details

of General fees date wise and that data will be exported to tally. Updation: updated as per the requirement. 13.Fee Receipt (Details) Description: used to view the details of the fees list by entering the receipt number. Updation: updated as per the requirement. 14.Fee: Reports Description: Entry form to take the various fee related reports. 15.Fee Letter Description: Generate letter which contains year wise semester wise fees details for each student with college reopening date , fees collection date, with / without fine last date and the fine amount batch wise. Updation: updated for every semester during the beginning. 16.Voucher Description: Entry form generates voucher receipt, payment and journal including debit, credit particulars and ledger name for Tally. Updation: Updated for every entry in voucher.

Student Admission and Support

1. Student Admission Form Description: Used during admission time to enter data of a new student. This form contains Auto generated unique Admission Number. Updation: Updated once in a year or as per the users requirement, student mobile number change and father mobile change are updated as per the requisition. 2. Student Bio-Data Form Description: Used after the admission of a student to feed their academic and personal information Updation: Updated once in a year and address changes are updated as per the requisition. 3. AO II Student Details Description: used to update the Email id and hostel of a student. Updation: updated as per the requirement. 4. Admission Report Description: contain an interface to get date wise admission report by giving the nature and required date. 5. Student Statistics: Report Description: used to get graduation day label, Graduation day register number, Student Name List for Library, AO II report, Student, Address list 6. Student Detail Description: used to view the student detail branch wise and semester wise. Updation: Updated as per the Need 7. Student TC Description: used to print the original TC, Duplicate TC, Course completion certificate, TC Copy. It also contains an interface to update status of a student. Updation: Updated

often when a student gets discontinued or transferred

8. TC Correction Description: used to correct the data in TC if any mistakes done. Updation: Updated often when a student gets discontinued or transferred

9. Student Strength: Reports Description: contain an interface to get nature wise, category wise admission report by giving the course and semester.

10. Student Data: Reports Description: Contains an interface to get the various reports of students.

Examination

1. Photo Application Form Description: used to enter the name, address, DOB and photo of student to verify the 10th and 12th mark sheet. The passport size photo of the student will be stored in the server. Updation: updated during every year beginning after admission.

2. Exam Application Form Description: entry form to insert the subjects for individual students. Updation: updated before the semester end examinations.

3. Exam Fees Description: entry form to insert fees for subject, application, marksheet, CIE Test for the students Updation: updated before the semester end examinations.

4. Time Table Description: used to put the schedule for the semester end examinations. Updation: updated at the beginning of every semester.

5. Hall Details Description: This form contains details of the hall and its number, row-wise and column-wise strength. Updation: updated if there is a changes in the halls.

6. Hall Plan Description: This Entry form is to enter the Halls needed for Semester End Examinations. Updation: updated during the starting process of the exam

7. Hall Chart Description: This Entry form to enter the place allotted for student during exams. Updation: updated during the starting process of the exam

8. Attendance Entry (Exam) Description: This Entry form used to enter the attendance for semester end examination for each subject. Updation: updated during each day of semester end examination

9. Dummy Number Entry Description: Auto Generated dummy number will be allotted for each student after the Semester end examinations. Updation: updated after the end of semester end examination

10. Exam Cell: Reports Description:

Entry form to take the various Exam Related Reports. 11.Question Paper Issue Description: This form displays the strength of students subject wise to issue question paper and Report will be generated for pasting label in question paper cover includes exam details. Updation: updated during the starting process of the exam 1. Exam Lab attendance Description: Entry form to feed the student attendance for semester end practical exams. Updation: Updated during the practical exams.

2.External Mark Entry a.Theory Description: Used to enter the theory mark of the student subject wise. Updation: updated during the mark entry at end of semester exam valuation.

b.Theory(Double Entry) Description: Used to enter the theory mark of the student subject wise for the second time to recheck the marks. Updation: updated during the mark entry at end of the semester exam valuation.

c.Practical Description: Used to enter the Practical mark of the student. Updation: updated during the time of mark entry at end of the semester exam valuation. d.Practical (Double Entry) Description: Used to enter the practical mark of the student subject wise for the second time to recheck the marks. Updation: updated during the time of mark entry at end of the semester exam valuation. e.Theory split Description: Used to enter the theory mark of the student subject wise question wise

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	M.Mani Murugan	Industry Residential Programme	NA	9000
2018	V.Kaviarasan	Industry Residential Programme	NA	9000
2018	R.Yuvaraj	Central Manufacturing Technology Institute,	NA	9664

		Bangalore		
2018	V.Suresh	Central Manufacturing Technology Institute, Bangalore	NA	9664
2018	G.Sivaraman	Central Manufacturing Technology Institute, Bangalore	NA	9664
2018	S.Aravindhajalaji	Central Manufacturing Technology Institute, Bangalore	NA	9664
2018	S.Vetrivel	Central Manufacturing Technology Institute, Bangalore	NA	9664
2018	A.Ranjith Kumar	TEQIP - Two days Workshop	NA	1000
2018	T.Dinesh	TEQIP - Two days Workshop	NA	1000
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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)
2018	Pedagogy Training Programme	NA	20/06/2018	22/06/2018	50	0
2018	NA	Stress Management	21/06/2018	21/06/2018	0	35
2018	FDP on Cyber Security-Skill Development Programme on Analyst - Soc In collaboration with SSC NASSCOM	NA	13/06/2018	17/06/2018	6	0

2018	Stress Management and Work Life Balance	Stress Management and Work Life Balance	06/08/2018	06/08/2018	25	20
2018	FDP on Exploring Deep Learning	NA	12/11/2018	13/11/2018	11	0
2018	FDP on Modern Methods of Teaching	NA	08/12/2018	08/12/2018	6	0
2019	Induction Cum Refresher Programme for New Recruits Other Faculty	NA	18/06/2019	22/06/2019	38	0
2019	NA	Positive Thinking for Holistic Growth	25/06/2019	25/06/2019	0	28
2019	Simplified Yoga practices	Simplified Yoga practices	04/03/2019	06/03/2019	30	10
2019	Workshop on Readers Club	NA	29/01/2019	29/01/2019	10	0
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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
Pedagogy Training Programme	50	20/06/2018	22/06/2018	3
Faculty Development Programme	6	06/06/2018	17/06/2018	5
Industry Training	2	16/07/2018	18/07/2018	3
Industry Training	5	10/10/2018	12/10/2018	3
TEQIP - Two days Workshop	2	15/11/2018	16/11/2018	2

Industry Training	2	22/11/2018	23/11/2018	2
National Workshop	4	18/06/2018	22/06/2018	5
Industry Training	3	06/12/2018	07/12/2018	2
Faculty Development Programme	2	17/05/2018	05/07/2018	50
Industry Training	2	14/12/2018	14/12/2018	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	5	0	35

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Management Scholarship is given each year for the following categories: <ul style="list-style-type: none"> ? Sports scholarship ? Merit cum means scholarship ? Merit scholarship ? Special scholarship • Financial support for: <ul style="list-style-type: none"> ? 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, Chartered accountant, Salem represented by his partner G.Gowthaman, Chartered 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	14500000	Creation of infrastructural development and research activities
No file uploaded.		

6.4.3 – Total corpus fund generated

124827000

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	Internal Quality Assurance Cell (IQAC)
Administrative	Yes	Bureau Veritas	Yes	Internal Quality Assurance Cell (IQAC), Quality Management System and ASTRAL

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

- Parent -Teacher meeting is organized by individual departments at least twice in a year.
- Institutions achievements and Events are shared with the parents.
- During parent’s teachers meeting feedback regarding curriculum development, Placement opportunities, co-curricular and extracurricular aspects are collected from parents. Also discussed the performance of their wards in the CIE Test and other activities.
- Parents are invited during the NBA , NAAC and other committee visits to give their feedback and suggestions.
- 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.
- Attendance report and CIE test performance of the students are sent through SMS to their parents.

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)

- Alumnicell is being registered
- Conducted Chapter wise alumni meet during the academic year.
- Introduced new UG program in B.E-Mechatronics Engineering.
- Intramural Lecture series were introduced for and by the faculty once in fortnight through faculty development cell.
- Every Professor and associate professor insisted to Publish at least 2 SCI indexed journals and assistant professor 2 Scopus journals
- The Focus Group for different verticals has been initiated for the development of institutions.
- Every Faculty should undergo Industry training of 40 hours.
- The Lecture Capturing System (LCS) is additionally installed in more class rooms.
- The internship and online courses has been considered as a credit course.
- The school connect program has been organised for the benefit of the school students.
- Sona Career Planning Centre (Sona CPC) is established to offer services such as counselling and training for higher studies and research carriers of students.
- Institution Innovation council with MHRD has been established to encourage, inspire and nurture young students by supporting them to work with new ideas and transforms them into prototype.
- Sona Readers Club has been initiated to make students understand that the essential of reading.

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
2018	Pedagogy Training Programme	20/06/2018	20/06/2018	22/06/2018	50
2018	Stress Management	21/06/2018	21/06/2018	21/06/2018	35

2018	Stress Management and Work Life Balance	06/08/2018	06/08/2018	06/08/2018	45
2018	IPR Protection and Importance of Patent Filing	19/11/2018	19/11/2018	19/11/2018	20
2018	Internal Academic audit	06/08/2018	06/08/2018	10/08/2018	300
2018	External Academic audit	11/09/2018	11/09/2018	15/09/2018	45
2018	Internal Academic audit	11/12/2018	11/12/2018	14/12/2018	305
2019	Induction Cum Refresher Programme for New Recruits Other Faculty	18/06/2019	11/06/2019	22/06/2019	38
2019	Workshop on Library Readers Club	29/01/2019	29/01/2019	29/01/2019	25
2019	Programme on Increase the usage of e-Journals	13/03/2019	13/03/2019	13/03/2019	50
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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
Motivational Speech and Live Interaction with Ms. N Dhamayanthi, Associate Vice President, HCL Technologies, Chennai.	08/03/2019	08/03/2019	300	100

"Simplified Yoga practices" for faculty members	04/03/2019	06/03/2019	50	25
Live Interaction" with the advocates and sub judges	11/03/2019	11/03/2019	300	50
Nation-wide competition on "laws related to Women"	26/11/2018	26/11/2018	140	0
Guest lecture on " Women related Laws"	21/11/2018	24/11/2018	140	0
Interactive session with Miss World Sweden 2015 Ms.Stina Nordlander, Chief operating officer , Nobel Sustainability Trust	08/01/2019	08/01/2019	300	0
Rangoli competition	14/01/2019	14/01/2019	90	0
"Miss Wonder Women" Technical Events like Paper Presentation Poster Presentation Logo Designing Poetry Group Discussion JAM Multimedia	15/02/2019	15/02/2019	250	0
"Miss Wonder Women" Non Technical Events like En Vogue Secret Hunt Born Artist Dub Queen Nail Art Dance Singing Cooking without fire	18/02/2019	18/02/2019	250	0
National Women Entrepreneurship Conclave	03/09/2019	04/10/2019	3	0

<p>"WeCon 2018" - organised by AICTE in collaboration with International Institute of Waste Management (IIWM)</p>				
<p>Pinkathon Rally 2018 - "Beti Pacho Beti Padho" Awareness programme of government of India was held in Gandhi stadium. Smt. Rohini Bhajibhakare, IAS, District Collector presided over the function.</p>	<p>14/09/2018</p>	<p>14/09/2018</p>	<p>199</p>	<p>0</p>
<p>Ahaa Brand Master & Dinvish Media Creation, celebrated a remarkable women's award ceremony in association with Women Empowerment Committee of SONA</p>	<p>30/08/2019</p>	<p>30/08/2019</p>	<p>300</p>	<p>0</p>
<p>Setup of Women Technology Park at Kandarkulama nickem Village with following initiatives were taken 1.Solar Food Processing 2.Sewing Machine for Differently abled women 3.Waste Paper Recycling 4.Paver Block Making 5.Pulse Plating</p>	<p>01/06/2018</p>	<p>31/05/2019</p>	<p>710</p>	<p>0</p>

Hands-on training session for women farmers was conducted on 05.12.2018 at the college campus by ICT Interventions to Promote Entrepreneurship Development of Women SHGs in Salem District, Tamil Nadu through Rural Agricultural Support Centers	05/12/2018	05/12/2018	180	0
BREAST CANCER AWARENESS PROGRAM FOR RURAL WOMEN	24/08/2018	24/08/2018	5400	0
Training program on Sewing machine for differently abled women	23/04/2018	07/05/2018	120	0
Expert lecture on "Food industries for rural women"	02/01/2018	06/01/2018	80	0
Waste Paper Recycling Programme for rural women	29/01/2019	29/01/2019	350	0
Pulse Plating of Silver anklet programme for rural women	27/10/2018	27/10/2018	60	0
Development of Paver block programme for rural women	08/01/2018	08/01/2018	80	0

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

9.28

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2

Ramp/Rails	Yes	2
Braille Software/facilities	No	0
Rest Rooms	Yes	2
Scribes for examination	Yes	2
Special skill development for differently abled students	Yes	2
Any other similar facility	Yes	120

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
2018	3	1	01/06/2018	365	Skill and Livelihood Promotion, Village adoption for the welfare of rural communities	Unemployment, Lack of skilled workforce, Poor general health and Hygiene	120
2018	5	5	01/07/2018	365	Women Technology Park	To provide livelihood opportunities for rural women in the nearby villages	170
2018	1	1	05/12/2018	1	ICT Interventions to Promote Entrepreneurship Development of Women SHGs in Salem District, Tamil Nadu	Information dissemination for women farmers on different facets of agriculture	180

					through Rural Agricultural Support Centers (Agri BPOs)		
2018	2	1	08/10/2018	1	Awareness created to the general public	Enhancement of skill to manage disaster in our everyday life	54
2018	1	1	12/12/2018	1	Livelihood promotion to the general public about yoga on international yoga day	Value addition in everyday life	300
2018	1	1	15/10/2018	1	World hand wash day	Created Awareness personal hygiene	4024
2018	1	1	26/08/2018	1	Tree Plantation Tremors Club	Environmental awareness	300
2019	1	1	05/10/2019	1	Awareness program to the general public about cybercrime	Handling of social networks and skills to safeguard ourselves	500
2019	2	1	26/02/2019	1	Livelihood promotion to the general public about eye	Awareness created on eye diseases and its precautions	200
2019	2	1	14/03/2019	1	Motivated the general public to cast 100 vote	Enhance the importance of vote casting to the public	500

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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Employee Handbook	14/08/2018	The principal, heads of the department and HR, continuously monitor the organizational behavior and objectives of every faculty and students.
Academic Calendar	01/07/2018	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 curriculum. 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
Ethical and value systems in HR, Mr.Ram, HR manager, JSW, Salem	05/06/2018	05/06/2018	146
"Workplace Ethics" Mr.G.Kannayiram, MD, Freedom Ophthalmic Private Limited, Hosur.	12/07/2018	12/07/2018	178
"Civic virtues and moral values" Mr.C.Varadaraju, Senior Manager, Smelter plant, Salem Steel plant	08/02/2019	08/02/2019	159
"Ethical considerations in Corporate valuations" Mr.ArockiaDurairaj Associate Vice president, Corporate finance, KPMG, Bangalore	15/05/2019	15/05/2019	167
Created Awareness to the local Communities "World hand wash day"	15/10/2018	15/10/2018	4024
Awareness created	04/04/2019	04/04/2019	350

about blood donation 'Motivated the general public to donate blood'			
Living Values	15/05/2018	17/05/2018	65
Cancer Awareness Program	24/08/2018	24/08/2018	5400
International Yoga Day	21/06/2018	21/06/2018	50
Orientation Program	12/07/2018	12/07/2018	50
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

Green Practices (Students, and staff using) a) Bicycle b) Public Transport c) i) Plastic free campus ii) Paperless office iii) Green landscaping with trees and plants a) Use of bicycles A few day-scholars and hostel students are encouraged to use bicycles within and outside the campus. b) Use of public transport As the college is located in the centre of the city, students and faculty use public transport to commute between college and their place of stay. C) i) Plastic-free campus The college has a plastic-free campus. ii) Green landscaping with trees and plants Green Building: Sona College campus with five star rating from GRIHA. This building focussing on waste and energy conservation technique. iii) Paperless office At Sona, the established principle of 'Reduce - Reuse - Recycle' is very much in practice with regard to the use paper. • Official college information is disseminated through online facilities like "Sonatimes" (for circulars), Management Information System (MIS) and the FTP, all of which are accessible by means of an official ID and password to staff-members within a LAN system on the campus. The MIS houses a complete database of students and faculty. • When paper is required to be used, e.g. for printing or writing, eco-friendly paper is used. Additionally, one-side printed paper is reused for writing or printing of draft letters or documents is widely used. Other facilities: • Use of solar energy • Waste water recycling • CCTV Cameras • Sprinklers for landscape and lawns • Installation of ample number of power saving LED lights in campus • Rainwater tanks are constructed for harvesting rain water to prevent soil erosion and to meet water requirement partially.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Practice - 1: Speakers Forum Goals: The Sona Students' Speakers' Forum (SSSF) has been constituted with the aim of making students become good speakers with ABC -A: Accuracy, B: Brevity, C: Clarity. To eradicate the stage fear of the students and to enrich the students in their inter personal skill sets. The Context: The program is designed to make it informative and enjoyable at the same time. Students can present ideas that they have encountered while reading in the library, which has more than 80000 books on various subjects, about activities of their clubs, summary of seminars and conferences held by the departments. The Practice: The programs of speakers forum is conducted every Wednesday for the departments in cyclic fashion. Many students from all the years of the departments participate in the event. The speaking ability of the students are assessed by team of faculty members from English department. Every week one department is deputed to host the speaker's forum in which the students are giving speech to the audience of students on various general topics. Participants in the Speaker's forum, in addition to cash and gifts participatory certificates will be given which they can add to their C.V. The

proceedings of the Speakers Forum are video recorded and are kept as a reference material in the library. The Activities of Speakers' forum has created in students, leadership qualities, team work, communication skills and increased usage of the Library materials. Due to the confidence gained by 'Addressing an Audience', placement opportunities are also expected to increase. Evidence of success: The Forum has already driven away Stage Fear in students and made them great orators who speak fluently and with confidence. With Sona Speakers' Forum becoming popular and beneficial, it is considered a privilege to participate in the Forum. Year 2017 - 2018 Number of Days of Speakers Forum: 16 Number of Participants : 151 Number of Topics : 151 Year 2018 -2019 Number of Days of Speakers Forum : 34 Number of Participants : 416 Number of Topics : 416 Problems Encountered: Initially, many students hesitated in participating in the activities. Slowly after the success of this initiative students voluntarily came forward to mark their presence. Resources Required: Necessary provisions are made in the budget allocation. A separate space has been allotted to conduct the events on the regular basis. The faculty members on rotation basis from the English and training department are assessing the communication capabilities of the students. Notes: It is gratifying to note that many of the participants in the Speaker Forum have fared well in placement interviews and got placed in top notch companies. Many of the Students who have won laurels in Speakers Forum have also won awards in Inter - Collegiate contests. Title of the Best Practice - 2: Peer Tutoring Goal: The goal of this practice is to, • Develop the students ability and skill to teach and guide other students • Inculcate two way learning process. The Context: • Peer tutoring is a teaching and learning strategy wherein students practice teaching skills and master content delivery. Teachers use peer tutors to help accommodate a classroom full of diverse students who need more individualized attention. The teachers identify complex topics which are difficult to be understood by the students. The peer tutors will deliver content on those topics to the students. This initiative is taken to Promote a Supportive Classroom Atmosphere. The Practice: The departments call for nominations from students for peer tutoring. The students voluntarily come for this activity and they are interviewed by a committee of teachers and the students are selected based on their attitude, team spirit, communication skills and academic excellence. The peer tutoring classes are scheduled. Random feedbacks are collected from the students on peer tutors to assess their effectiveness of teaching. Remuneration is given to them in an hourly basis. Evidence of Success: Benefits of peer tutoring for students include higher academic achievement, improved relationships with peers, improved personal and social development as well as increased motivation. Students easily understand tutors who are cognitively closer to each other. Usually students find their own ways of communicating with other students and many times they can present a subject to other students in a better way. Peer tutors give their classmates their own models of understanding subject using their personal experiences, fresh ideas, examples from every-day life, even popular communicating symbols that make learning easier. Students feel very proud on being a peer tutor and they have mentioned their success to the expert members of accreditation bodies. Peer tutoring not only ensures a good level of effective and efficient communication and cooperation in favour of the tutees but also acts at the benefit of student-tutors as well. The tutors' gains are the following: ? By spending time in revising the subject matters, they have to teach other students which result in acquiring deeper and clearer knowledge on the specific subjects they deal with. ? Student tutors enjoy a rise in their self-esteem, feeling that they do something useful and seeing their tutees improve. They also enjoy respect from tutees. Many times the ambition of older students to be selected as tutors increases competitiveness and results in improving the older groups' standards. ? Structured peer tutoring improves communication and cooperation among students, enhances the team spirit and helps socialization. Problems

Encountered: Initially the peer tutors are struggling in the effective delivery of the content. The teachers support and guide them in improving their quality of teaching. Resources Required: Necessary provisions are made in the budget allocation. And all the peer tutors are encouraged with a remuneration policy. Notes: The peer tutors add their peer tutoring activity in their curriculum vitae as their achievement.

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/IOAC/best-practices.pdf>

7.3 – Institutional Distinctiveness

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

Sona College of Technology is always the most preferred educational institution for the Industries to collaborate for its various needs and always wants to involve the industry in its all academic, research and consultancy activities as below. • Every course is assigned with an industry mentor. They curate the syllabi, give problems to solve, give mini projects, possibility to get internships. • Students are having full 8th semester for doing internships at the industry. • Offers industry offered electives for students for practical exposure. • Sona curriculum includes industry training or internships during summer or winter vacation which are recognized as credit courses. • Signs MOUs with many industries for mutual exchange of knowledge and research which is one of the quality objective. • Offer guest lectures and workshops on latest innovations by industry mentors at least one for every course. • We are involving more industry members in board of studies for industry requirements to be incorporated in the syllabus. • Sona faculty undergoes 40 hours of industry training every year. • Offer PG programs in collaboration with industry. • Sona faculty are providing training to industry people on new technologies. • Many projects are submitted to funding agencies in collaboration with industries. • Organizes RD review meeting regularly in which industry people of different domains are invited to review the research works carried out by the faculty. • We appoint adjunct faculty from industry to teach the students. • Our faculty publishes research articles and file patents in collaboration with industry. • Sona faculty members develop proof of concept as a consultancy service for the ideas of industry. • Sona is doing numerous industry research projects funded by industries through CSRI. 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, Shahi exports, Human Resocia, Japan etc. As a proud recognition for the above activities, Sona has received AICTE - CII best industry linked institute award several times as below. • 2013 - Computer science engineering and IT department. • 2015 - Electrical Engineering department. • 2016 - Platinum category award for Fashion Technology department. • 2017 - Civil engineering department. • 2018 - Mechanical engineering and Fashion Technology department • 2019 - Computer science engineering IT

department and Fashion Technology department.

Provide the weblink of the institution

<https://www.sonatech.ac.in/IOAC/7.3%20Institutional%20Distinctiveness.pdf>

8.Future Plans of Actions for Next Academic Year

- To work towards getting minimum 10 patents filed every year. - To aim at a minimum of two international collaborations for research / short-term courses/ student-faculty exchange/joint conferences. - To apply for Deemed to be University status and become Sona University - Lab on Wheels - To prepare and implement of Strategic Plan activities - To have at least 10 active projects in the Sona Incubation Garage • An innovative idea of student is selected for development and become incubate • An Entrepreneur brings an innovative idea to develop and become incubate. • A group of technocrats would like to work together to develop their product either hardware or software, • An Organization would like to set up a R D center • An organization would like to set up a training institute. • Budding Entrepreneurs with innovative ideas • An Industry - Organization • A Group of Technocrats. • Entrepreneurs involving in smart city projects. • On mutual agreement and on free of cost for students of Sona group of Institutions • On mutual agreement for the budding entrepreneurs on chargeable basis • On mutual agreement for the group of technocrats and organizations on chargeable basis • Students will be provided with a shared desk for the period of 18 months • Budding entrepreneur - incubate will be provided a shared of individual cabin as required for a period of 18 months. The charges as decided by Sona College Technology. • The Industry/Organization will be provided a space with enclosures as required for a period of minimum three years. The charges as decided by Sona College Technology. - To get ISO - 14001:2014 Certification. ISO 14001:2015 is an internationally agreed standard that sets out the requirements for an environmental management system. It helps organizations improve their environmental performance through more efficient use of resources and reduction of waste, gaining a competitive advantage and the trust of stakeholders. ISO 14001 is suitable for organizations of all types and sizes, be they private, not-for-profit or governmental. It requires that an organization considers all environmental issues relevant to its operations, such as air pollution, water and sewage issues, waste management, soil contamination, climate change mitigation and adaptation, and resource use and efficiency. SONA plans to impart training on wheels (Mobile Lab) in collaboration with FESTO. The training will be the focusing on industrial automation structured into four modules, each module of approximately 50 hours, totally 200 hours of hands on training. After the completion of the training, FESTO SONA will offer 'certificates of completion' which will have an immense market value while seeking jobs in the industries. After this training, the student's profile will drastically change and will his certified hand on training, will command better placements with the industries.