

# **SONA** COLLEGE OF TECHNOLOGY

*Learning is a Celebration !*

| An Autonomous Institution |



## **ANNUAL QUALITY ASSURANCE REPORT 2016 - 2017**

Submitted to

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**  
BANGALORE

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# The Annual Quality Assurance Report (AQAR) of the IQAC

## Part – A

**AQAR for the year**

2016-2017

### **1. Details of the Institution**

1.1 Name of the Institution

Sona College of Technology

1.2 Address Line 1

Junction Main Road,

Address Line 2

Suramangalam (P.O.),

City/Town

Salem

State

Tamil Nadu

Pin Code

636005

Institution e-mail address

principal@sonatech.ac.in

Contact Nos.

0427-4099999

Name of the Head of the Institution:

Dr. M. USHA

Tel. No. with STD Code:

0427-4099919

Mobile:

9443366495

Name of the IQAC Co-ordinator:

Mobile:

IQAC e-mail address:

1.3 **NAAC Track ID**

**OR**

1.4 **NAAC Executive Committee No. & Date:**

1.5 **Website address:**

Web-link of the AQAR:

**1.6 Accreditation Details**

S. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> cycle	A	3.21	2012	Sep 14, 2017

1.7 Date of Establishment of IQAC: DD/MM/YYYY

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC

i. **AQAR 2014-15 submitted to NAAC on 18/03/2017**

ii. **AQAR 2015-16 submitted to NAAC on 18/03/2017**

iii. **AQAR 2016-17 submitted to NAAC on 07/11/2017**

1.9 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency Approved Institution Yes  No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

1.10 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)

TEI (Edu)  Engineering  Health Science  Management

Others (Specify)

1.11 Name of the Affiliating University (for the colleges)

ANNA UNIVERSITY, CHENNAI

### 1.12 Special status conferred by Central/State Government/UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University	<input checked="" type="checkbox"/>		
University with Potential for Excellence	<input type="checkbox"/>	UGC-CPE	<input type="checkbox"/>
DST Star Scheme	<input type="checkbox"/>	UGC-CE	<input type="checkbox"/>
UGC-Special Assistance Programme	<input type="checkbox"/>	DST-FIST	<input checked="" type="checkbox"/>
UGC-Innovative PG programmes	<input type="checkbox"/>	Any other ( <i>Specify</i> )	<input type="checkbox" value="DSIR - SIRO"/>
UGC-COP Programmes	<input type="checkbox"/>		

### 2. IQAC Composition and Activities

2.1 No. of Teachers	<input type="text" value="11"/>
2.2 No. of Administrative/Technical staff	<input type="text" value="2"/>
2.3 No. of students	<input type="text" value="3"/>
2.4 No. of Management representatives	<input type="text" value="2"/>
2.5 No. of Alumni	<input type="text" value="2"/>
2.6 No. of any other stakeholder and community representatives	<input type="text" value="2"/>
2.7 No. of Employers/ Industrialists	<input type="text" value="2"/>
2.8 No. of other External Experts	<input type="text" value="2"/>
2.9 Total No. of members	<input type="text" value="26"/>
2.10 No. of IQAC meetings held	<input type="text" value="2"/>

2.11 No. of meetings with various stakeholders: No.  Faculty   
Non-Teaching Staff  Students  Alumni  Others

2.12 Has IQAC received any funding from UGC during the year? Yes  No

If yes, mention the amount

2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

- 1. Academic Audit
- 2. Internal Quality Auditors Training

2.14 Significant activities and contributions made by IQAC

The IQAC played a very active role in inculcating the sense of providing quality education to the students with the following quality objectives for 2016-17:

1. To introduce lecture capture system (LCS) for students to view the theory class videos at a later period for doubts if any.
2. To introduce blackboard learning management for students to download course materials, assignments, videos etc.,
3. To introduce peer teaching to help the slow learners.
4. To provide a new faculty record book which will act as a one stop record of all the academic activities for a particular course.
5. To give opportunity to students interested in research by introducing them to different R&D centres.
6. To increase the revenue generation through research and development funding and industrial consultancy.
7. To enhance the learning resources by providing additional infrastructure.
8. To increase the NSS, NCC, YRC and alumni interactions for the holistic development of students,
9. To enhance the ecological practices so as to conserve water, power etc and make the campus eco-friendly.
10. To initiate steps to improve the livelihood of women in the surrounding villages, by conducting skill development courses.

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcomes achieved by the end of the year\*

<b>S.No.</b>	<b>Plan of Action</b>
1	To conduct pedagogy and other training programmes for faculty
2	To conduct national conferences, seminars, workshops and guest lectures.
3	To enhance the teaching learning process
4	To enhance the research and development activities
5	To enhance the infrastructure facilities by purchasing New equipments and constructing class rooms.
6	To conduct gender sensitisation programmes
7	To enhance students support systems through counselling and career guidance programmes.
8	To improve the Management Information System leading through E-governance.
<b>S.No.</b>	<b>Outcomes</b>
1	Pedagogy programme was conducted for the new faculty. Training for Moodle, blackboard and lecture capturing system was given to all faculty
2	National conferences, seminars and guest lectures were conducted by various departments
3	Laptops with e-books was issued to all first year students. Special interest courses such as music, yoga and painting have been introduced this year
4	The on-going project funding has increased from Rs.295 Lakhs to Rs.423 lakhs. The revenue from consultancy has increased from Rs.58 lakhs to Rs.83 lakhs
5	12 new classrooms and one seminar hall have been constructed. New equipment to a tune of Rs.242 lakhs have been purchased
6	Women Empowerment Committee of the college conducted various programmes and one such programmes was on Cancer awareness
7	1084 students got benefited from counselling and career guidance programmes
8	A self appraisal mechanism for staff evaluation has been introduced. On-line student feedback on the teacher and course has also been introduced

\* Academic calendar of the year enclosed in Annexure I.



2.15 Whether the AQAR was placed in statutory body      Yes       No   
Management       Syndicate       Any other body

Provide the details of the action taken

- To support students progression and bring together the interest of parents and the college, parents-teachers meeting was conducted twice a year in every department.
- A review of lecture capture system and black board was done.
- The Vice Chairman Mr.V.Chocko Valliappa initiated steps to bring more experts from industries for conducting guest lectures and interacting with students to improve placement opportunities. Accordingly in each department five to six industry experts delivered guest lectures.
- The Chairman initiated steps to increase start ups through incubation centers. Dr.Anbarasan Thangavel, Chief Leadership Officer, Drishta Vidya LLP, conducted an awareness program on project manangement and start-ups. Dr. S. Nirmalesh, Young Scientist, European Union and an alumni of the college was appointed as a visiting faculty for the start-ups.
- A campus maintenance committee was formed for the upkeep and improvement of the campus eco-system.
- A review of the college canteen operation was done to ascertain the quality of food served.
- A review of Wi-Fi connectivity for the entire campus including hostel was done. An additional 100 CCTV cameras have been installed for effective surveillance.

## Part – B

### Criterion – I

#### 1. Curricular Aspects

##### 1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / career oriented programmes
PhD	11	-	11	-
PG	14	-	14	-
UG	7	-	7	17
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	18
<b>Total</b>	32	-	32	35

Interdisciplinary				
Innovative				

1.2 (i) Flexibility of the Curriculum: **CBCS**/Core/Elective option / Open options

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	32
Trimester	-
Annual	-

1.3 Feedback from stakeholders (Details enclosed in Annexure-II)

- Alumni
- Parents
- Employers
- Students

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

**Yes.**

Sona Autonomous Regulations 2015R (incorporating Choice Based Credit System) was approved by the academic council and implemented for all UG programmes for the academic Year 2016-17.

1.5 Any new department/centre introduced during the year. If yes, give details. **NO**

## Criterion – II

### 2. Teaching, Learning and Evaluation

#### 2.1 Total No. of permanent faculty

Total	Asst. Professors	Associate Professors	Professors	Others
345	257	50	38	NIL

2.2 No. of permanent faculty with Ph.D. : 109

#### 2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year

Asst. Professors		Asso. Professors		Professors		Others		Total	
R	V	R	V	R	V	R	V	R	V
19	19	3	3	-	-	NIL	NIL	22	22

#### 2.4 No. of Guest and Visiting faculty and Temporary faculty

Guest faculty  Visiting faculty  Temporary faculty

Guest lecturers

#### 2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended seminars/ workshops	49	128	85
Presented papers	92	92	08
Resource Persons	08	15	16

#### 2.6 Innovative processes adopted by the institution in teaching and learning process:

- Students are provided with opportunities to learn through lecture sessions by experts in different fields through NPTEL.
- 8000 user-licenses for Blackboard Learning Management Software are available on the campus for use by faculty and students. Lectures, assignments, videos, animation, etc. related to the courses are uploaded in addition to the quizzes posted on the Blackboard platform.
- Faculty members are also encouraged to take on-line courses offered by NPTEL, Coursera, etc. to upgrade their knowledge and thereby enhance the teaching-learning process.

- Lecture Capture Systems (LCS) are installed in at least one classroom per department. More installations are in the pipeline. The lecture sessions are posted (after necessary editing) on the LCS portal for viewing by students any number of times.
- Students who excel in their studies are appointed with remuneration as peer-teachers to enhance the learning of their classmates.
- Students with a natural bent for research are allotted to research faculty and R&D centres as assistants in ongoing research projects to provide them with an opportunity to channelise their research potential.
- Relevant industry mentors/subject experts have been identified and certain topics are taught by them
- Student-centric learning, to practice industry specific cases using MOODLE is adopted.
- Consistent assessment and adaptive tests are conducted using customized MOODLE.
- Laboratory courses are run through MOODLE virtual laboratories.

**2.7 Total No. of actual teaching days during this academic year** : 191

**2.8 Examination/Evaluation Reforms initiated by the institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)**

- Online multiple choice question test is conducted through MOODLE.
- The policy of issuance of photocopy of the answer scripts to the student is placed in the system.

**2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop**

Member of BoS	Faculty Development	Curriculum Development
145	134	147

**2.10 Average percentage of attendance of students** : 91.4

**2.11 Course/programme wise distribution of pass percentage:**

Title of the programme	Total no. of students appeared	Division					
		Distinction %	I %	II %	III %	Pass %	
<b>ECE (UG)</b>	141	42	89	1	<b>NA</b>	92	
<b>ECE (PG)</b>	<b>CS</b>	9	89	11		-	100
	<b>VLSI</b>	13	100	-		-	100
<b>EEE (UG)</b>	135	38	54	4		96	

<b>EEE (PG)</b>	<b>PSE</b>	16	88	6	-	94
	<b>PED</b>	5	100	-	-	100
<b>MECH (UG)</b>		217	11.52	85.71	-	97.23
<b>MECH (PG)</b>	<b>ED</b>	7	71.4	28.6	-	100
	<b>PDD</b>	9	88.88	11.12	-	100
<b>CIVIL (UG)</b>		142	13	64	16	93
<b>CIVIL (PG)</b>		37	81`	19	-	100
<b>CSE (UG)</b>		128	18.75	67.19	8.59	94.53
<b>CSE (PG)</b>	<b>CSE</b>	18	44.44	55.56	-	100
	<b>SE</b>	-	-	-	-	-
<b>IT (UG)</b>		122	15.57	66.39	15.57	97.53
<b>IT (PG)</b>		11	54.50	45.50	-	100
<b>FT</b>		56	20	77	3	100
<b>MCA</b>		142	38.73	61.27	-	100
<b>MBA</b>		158	19.62	73.42	--	93.04

### **2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching and Learning processes:**

- The college has standard pedagogical practices. The Faculty Record Book (FRB) in which the lesson plan, course outcomes, programme outcomes, course delivery details, list of resources developed, etc. are documented, serves as a record of all the academic activities.
- The FRBs are regularly monitored by the HODs. The effectiveness of the process is then assessed by the IQAC team.
- Year plan preparation helps to achieve the goals
- Feedbacks were obtained from the students through structured questionnaires related to teaching learning process
- Ensures the meeting of Board of Studies to update the curriculum in all disciplines
- Feedback forms on curriculum are collected, analysed and a report is prepared which helps in the teaching and learning process
- Individual faculty performance appraisal and self-evaluation by faculty is done with a view to assess the faculty effectively.
- Organization of workshops, seminars, staff development activities to promote faculty development
- Organizing Higher Education Programmes and one credit courses for students.

### 2.13 Initiatives undertaken towards faculty development

<b>Faculty / Staff Development Programmes</b>	<b>Number of faculty benefitted</b>
Refresher courses	181
UGC – Faculty Improvement Programme	28
HRD programmes	20
Orientation programmes	20
Faculty exchange programme	22
Staff training conducted by the university	52
Staff training conducted by other institutions	48
Summer / Winter schools, workshops, etc.	19
Others	36

### 2.14 Details of Administrative and Technical Staff

<b>Category</b>	<b>Number of Permanent Employees</b>	<b>Number of Vacant Positions</b>	<b>Number of permanent positions filled during the Year</b>	<b>Number of positions filled temporarily</b>
<b>Administrative Staff</b>	120	6	6	NIL
<b>Technical Staff</b>	108	9	9	NIL

### Criterion – III

#### 3. Research, Consultancy and Extension

##### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- A research committee consisting of representatives from every department functions in the college. This committee meets periodically and discusses the various schemes and scrutinizes the proposals suitable for each scheme
- All faculty are encouraged to present their innovative ideas, file patents, publish research papers in journals / conferences and the team helps and guides them in this initiative
- Faculty involved in funded research projects are lauded with appreciation and cash

##### 3.2 Details regarding major projects

	<b>Completed</b>	<b>Ongoing</b>	<b>Sanctioned</b>	<b>Submitted</b>
Number	-	13	06	09
Outlay in rupees (in lakhs)	-	422.95	308.95	103.93

##### 3.3 Details regarding minor projects

	<b>Completed</b>	<b>Ongoing</b>	<b>Sanctioned</b>	<b>Submitted</b>
Number	07	04	03	-
Outlay in rupees (in lakhs)	8.45	6.56	3.98	-

##### 3.4 Details on research publications

	<b>International</b>	<b>National</b>	<b>Others</b>
Peer Reviewed Journals	175	10	-
Non-Peer Reviewed Journals	61	-	-
e-Journals	6	-	-
Conference proceedings	122	103	-

##### 3.5 Details on Impact factor of publications:

Range 0.1-4.5    Average 0.911    h-index 98    Nos. in SCOPUS 77

##### 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

<b>Nature of the Project</b>	<b>Duration Year</b>	<b>Name of the funding agency in rupees (in lakhs)</b>	<b>Total grant Sanctioned in rupees (in lakhs)</b>	<b>Received in rupees (in lakhs)</b>
Major projects	2 Years	CPRI -RSOP	17.00	11.90
	3 Years	DST-SERB	25.69	15.84
	2 Years	UGC - UGC Faculty Award	25.50	12.75



	3 Years	DST - SEED (Agri BPOs)	41.63	25.87
	3 Years	DST - SEED (WTP)	123.05	81.49
	3 Years	DST - SEED	72.63	47.21
	5 Years	DST - FIST	30.00	14.00
	0.2 Year	SALEM CORPORATION	9.63	9.63
	3 Years	AICTE- CAYT	3.30	2.20
	2 Years	DST - IDP	14.23	11.84
	2 Years	DST - SERB (Young Scientist)	24.48	19.50
	2 Years	ISRO- RESPOND	19.84	14.80
	3 Years	ISRO - NaviC-GAGAN	15.95	5.76
Minor projects	0.1 Year	SALEM CORPORATION	0.60	0.60
	2 Years	UGC	2.58	2.58
	2 Years	IEI (The Institution of Engineers)	1.28	1.28
	2 Years	IEI (The Institution of Engineers)	1.50	1.50
	2 Years	UGC- SERO	1.20	0.80
Interdisciplinary projects	-	-	-	-
Industry sponsored projects	-	Blupears, USA	16.90	-
	2 Years	Nanolytix Inc., Canada in Collaboration with Vee Technologies	8.50	8.50
	2 Years	Titan Watch unit, Hosur,	1.71	1.71
	2 Years	Sona Valliappa Textiles Pvt Ltd	1.29	1.29
	1 Year	Janalakshmi Financial Services	0.18	0.18
Projects sponsored by the University/ College	2 Years	Sona Management	1.00	1.00
Students research projects (other than compulsory by the University)	1 Year	TNSCST (Tamil Nadu State Council for Science and Technology)	0.35	0.35
Any other(specify)	-	-	-	-
<b>Total</b>			<b>460.02</b>	<b>292.58</b>

3.7 No. of books published i) with ISBN No.

Chapters in edited Books

ii) without ISBN No.

3.8 No. of university departments receiving funds from

UGC-SAP

CAS

DST-Scheme/funds

DPE

DBT Scheme/funds

3.9 For colleges Scheme  
 (specify) Autonomy  CPE  DBT Star   
 INSPIRE  CE  Any Other

3.10 Revenue generated through consultancy

3.11 No. of conferences organized by the institution

Level	International	National	State	University	College
Number	-	03	-	-	-
Sponsoring agencies	-	04	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons

3.13 No. of collaborations International  National  Any other

3.14 No. of linkages created during this year

3.15 Total budget for research for current year in lakhs :  
 From funding agency  From Management of University/College   
 Total

3.16 No. of patents received this year

Type of patent		Number
National	Applied	01
	Granted	01
International	Applied	02
	Granted	-
Commercialised	Applied	-
	Granted	-

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

Total	International	National	State	University	Dist	College
10	-	09	01	-	-	-

3.18 No. of faculty guiding Ph. D. scholars and no. of scholars registered under them

3.19 No. of Ph.D. awarded by faculty from the institution

3.20 No. of research scholars receiving fellowships (newly enrolled + existing ones)  
 JRF  SRF  Project fellows  Any other

3.21 No. of students participated in NSS events:

University level  State level   
National level  International level

3.22 No. of students participated in NCC events:

University level  State level   
National level  International level

3.23 No. of awards won by the NSS unit:

University level  State level   
National level  International level

3.24 No. of awards won by the NCC unit:

University level  State level   
National level  International level

3.25 No. of extension activities organized

University forum  College forum   
NCC  NSS  Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Sl. No	Name of the Programme	No. of Candidates	Sponsored by	Course Code	Project Cost in Rs.
1	Sewing Machine Operator	65	M/s Sona Yukti	15,16 & 17 /15-16	326362.75
2	Fashion Designing and Garment Making	18	Self Supporting	01/2016-17	271519.00
3	Basics of Beauty Culture and Hair Dressing	11		02/2016-17	151800.00
4	Multiskilled Garment Making	30	M/s SAIL, SSP	03/2016-17	315900.00
5	Data Entry Operator	26	M/s SRC Ltd	04/2016-17	88550.00
6	House Keeping	30		05/2016-17	126500.00
7	Readymade Garment Making	25		06/2016-17	195250.00

8	Asst Electrician	24	AICTE - PMKVY	07/ 2016-17	388800.00
9	Plumbing (maintenance and servicing)	24		08/ 2016-17	482112.00
10	Basics of Beauty and Hair Dressing	6	Self-supporting	09/ 2016-17	82800.00
11	Lathe Operator	25	AICTE - PMKVY	10/ 2016-17	405000.00
<b>Total</b>		<b>284</b>		<b>Total</b>	<b>2834593.75</b>

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities

Facilities	Existing	Newly created	Source of Fund	Total
Campus area (m <sup>2</sup> )	59509	-	Chockalingam Trust	59509
Class rooms	113	12	Chockalingam Trust	125
Laboratories	85	-	Chockalingam Trust	85
Seminar Halls	11	1	Chockalingam Trust	12
No. of important equipment purchased ( $\geq$ 1-0 lakh) during the year		27	-	
Value of the equipment purchased during the year (Rs. in lakhs)	(14 + 430 users)	242.52 lakhs	Chockalingam Trust	
Value of the equipment purchased during the year (Rs. in lakhs)	1	4.35 lakhs	CPRI	
Value of the equipment purchased during the year (Rs. in lakhs)	10	88.23 Lakhs	DST	
Value of the equipment purchased during the year (Rs. in lakhs)	2	9.31 lakhs	ISRO	
Value of the equipment purchased during the year (Rs. in lakhs)	-	0.72 lakhs	UGC	
Others				

#### Details of the equipment purchased for the academic Year 2016-17

S.No.	Department	2016-17	
		No. of equipment costing more than 1 lakh	Cost of equipment (in lakhs)
1	Civil Engineering	1	4.60
2	Mechanical Engineering	3	18.17
3	Electrical and Electronics Engineering	3	7.96
4	Electronics and Communication Engineering	50 users	6.00

5	Computer Science Engineering, Information Technology, MCA	380 users	186.29
6	MBA	-	-
7	Fashion Technology	-	-
8	Science and Humanities (Chemistry Laboratory)	-	0.50
9	Science & Humanities (Physics Laboratory)	-	0.26
10	Science & Humanities (General Engineering – Engg Practice Laboratory - ECE)	-	-
11	Science & Humanities (General Engineering – Engg Practice Laboratory – Civil & Mech)	-	0.80
12	R & D Software- EEE SonaSPEED	1	5.02
13	SERB-EEE	1	1.75
14	SonaPERT-EEE	3	2.44
15	Sona AROMA- Science	2	6.90
16	Sona PAN- Science	-	1.83
17	CPRI-EEE	1	4.35
18	DST-SERB-EEE	2	10.72
19	DST-FIST-EEE	2	14.00
20	DST-SEED-Agri BPO- CSE	2	13.21
21	DST-SEED-WS- CSE	2	43.00
22	DST-SEED-WTP- CSE	1	3.27
23	DST- FT	1	2.47
24	DST- Science	-	1.56
25	ISRO-BANGALORE-SonaPAN- CSE	2	9.31
26	UGC- Civil	-	0.72
<b>Total</b>			<b>345.13</b>

## 4.2 Computerisation of administration and library

### Administration

- Student Information System
- Staff Information System
- Examination Process Control System
  - Process implementation for assessment of course outcome
  - Result processing
  - Consolidated mark sheet design and development suitable to new model proposed
  - Examiner claim forms generation for supplementary examinations
- Fees Follow-up System (college and hostel)
- Admission Process Management System
- Staff Appraisal Process Automation
- SMS Based Solutions
- Staff Feedback Process Automation
- Online Training and Assessment Software (for placement)
- Stock Maintenance Software for CMG Group
- Dispatch Information System
- Web Portals – (Sona Times, Sona circulars, technical events, technical portal, ISO manuals, news track)
- Online Hall Reservation System
- Blood Donation Information System
- Wi-Fi Registration Information System
- Third Party Integration Solutions
- Leave Management System
- Data input to website updating of performance reports
- Data input to administration, AICTE section and adhoc requirements.
- Graphical presentation for the reports in all the modules
- Online Complaint – Maintenance Process
- Automatic Question Paper Setting
- Process implementation for online fee collection and Tally interface
- Fee collection through MIS for the first year students with new receipt format
- Process updating of GST in general receipts and Tally interface
- Online fee collection for hostel and examinations
- Hostel students bio-data form design and access at hostel premise
- First year admission data capture
- MIS version update suitable to 64 bit machines in the college
- ISO new process and quality manual updating for external ISO audit held last week
- Master updates in Bus fee collection
- Interlinking of bio-metric system with Tally for pay roll process.

## Library

- The central library is equipped with latest reading resources in both print and electronic forms.
- The library is computerised using autolib software
- All the reading resources are accessioned, classified and barcoded.
- Entry and exit of faculty members and students are recorded in the computer.
- e-resources like online journals and e-Books are made available.
- DELNET services
- Biometric systems for faculty attendance.

### 4.3 Library services:

	Existing (2015-16)		Newly Added (2016-17)		Total	
	No.	Value	No.	Value	No.	Value
Text books	81807	29089254	2340	1072725	84147	30161979
Reference books	3218	4262592	96	233508	3314	4496100
e-Books	229	141918	8	7200	8	7200
Journals	163	679487	44	97806	207	781559
e-Journals	3	1432576	3	1767303	3	1767303
Digital Database (NPTEL)	3675	-	-	-	3675	-
CDs and Videos	2322	693838	125	-	2447	693838
Others (specify)	DELNET	11500	DELNET	11500	DELNET	11500

### 4.4 Technology up-gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1450	18	50 mbps	3	-	-	All Departments	-
Added	350	2	50 mbps	-	-	-		-
Total	1800	20	100mbps	3	-	-		-



#### **4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)**

The college has introduced the following Learning Management System to improve the teaching and learning process.

- **MOODLE**

Modular Object-Oriented Dynamic Learning Environment. MOODLE is an open source web application used to create interactive online learning platform. Moodle is an alternative to proprietary commercial online learning solutions and is distributed free under open source licensing. It is designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalised learning environment. SONA is using MOODLE for various teaching learning activities like conducting online assessments, enabling content delivery like video lectures etc. Student and faculty members of the institution can access the MOODLE services from anywhere in the world or on the campus by using the URL: <http://182.73.107.190/moodle>.

<b>Number of MOODLE training programmes conducted</b>	06
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- **Blackboard**

SONA is the first engineering institution in India which has introduced the Blackboard Learning software in the teaching learning process. (Blackboard Learn 9.1) is the proprietary software that provides virtual learning environment.

Blackboard provides access to learning materials and activities online (assignments, tests, survey, collaboration etc.). Student and faculty members of the institution can access the Blackboard services from anywhere by using a URL: <https://sonalearn.org> or use <http://172.2.2> within LAN.

**All the faculties and students are given training on the following topics by the respective coordinators of LMS.**

- Content creation and sharing
- Creation of assignment with rubrics and evaluation
- Evaluating the assignment with plagiarism check
- Creation of online tests
- Collaboration tools

- Blackboard includes tools for the following activities:
  - Organizing and publishing course materials
  - Communication between tutors and students
  - Collaborative work, including discussion forums, wikis, blogs and shared group areas
  - Plagiarism checking on the submitted assignment
  - In-built math editor to support the writing of mathematical equations
  - Online assessments with automatic marking facilities
  - Course administration such as calendars and tasks list
  - Tracking students' online activities and course work submissions
- The above tools of Blackboard facilitates the virtual learning environment. Faculty members can effectively deliver the course content to the students.

<b>Number of MOODLE training programmes conducted</b>	<b>09</b>
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- **ICT Academy**

ICT Academy is an initiative of the government of India in collaboration with the state governments and industries. ICT Academy is a nonprofit society, the first of its kind pioneer venture under the Public-Private-Partnership (PPP) model that endeavours to train the higher education teachers and students thereby developing the next generation teachers and industry ready students.

<b>No. of faculty attended ICT Academy workshops</b>	<b>13</b>
<b>No. of ICT workshops conducted</b>	<b>01</b>

- **MOOC**

The staff community consistently register and attends the MOOC courses. Massive Open Online Courses (MOOCs) is an online course content which is available for all. Some of the online line course providers are edX, NPTEL, Coursera, Saylor academy etc.

Through Infosys Campus Connect programme, IBM Bluemix and CISCO certification programmes, staff members gain more knowledge and exposure in latest technologies.

<b>No. of faculty attended MOOC certification courses</b>	<b>28</b>
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- **Lecture Capture System**

The college has introduced the Lecture capture system as one of the teaching learning platforms. Lecture Capture System is a Comprehensive Video-Based Learning Platforms for students and faculties.

It offers easy and seamless integration to help faculty extend learning experience outside of the class room and provide the students with the opportunity of reviewing the lectures.

Students and faculty members of the institution can access the lectures from anywhere by using a public IP <http://182.73.107.187/impartus/login.aspx> or use [172.21.1.2/ impartus/login.aspx](http://172.21.1.2/impartus/login.aspx) within the college campus.

**All the faculty are given training on the following aspects of the lecture capture system by the Impartus team**

- Training on Lecture Capture System application software in mobile phone.
- Usage of audio and video device while delivering lectures in the class room.
- Editing and sharing of videos with the students.
- Discussion forum among faculty and students.

<b>Number of lecture capture system training programmes conducted</b>	<b>3</b>
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**4.6 Amount spent on maintenance (in lakhs) of ICT**

91,48,186
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S. No	Item Description	Quantity	Amount
01	Blackboard Learn release 9.1 (Perpetual)	8000 users	104,997.48 USD Rs. 70,34,831
02	Dell Power R630 Server (6 Core/12 Threads)	1	2,52,000
03	Dell Power Edge R630 (8 Core/16 Threads)	1	3,04,500
04	600 GB SAS 10k RPM HDD	3	56,700
05	External Storage:2*2TB HDD	1	31, 500
06	DigiCert, Inc – SSL Plus Certificate (for 3 Years)	1	419 USD => 28,073
07	Lecture Capture System	10	14,40,582
		<b>Total</b>	<b>91,48,186</b>

**1) Campus Infrastructure and Facilities and Equipment purchased** 1,97,69,872

<u>CONSUMBALES &amp; MAINTENANCE EXPENSES(APRIL 2016- MARCH 2017)</u>		
<b>S. No.</b>	<b>Item Description</b>	<b>Amount (in Rs.)</b>
1.	Building Maintenance	1,02,45,123
2.	Lab Maintenance - Chemistry	50,539
3.	Lab Maintenance - Civil	1,25,572
4.	Lab Maintenance - Electrical	1,56,538
5.	Lab Maintenance - ECE	2,38,129
6.	Lab Maintenance - Engineering Practice (Mech / Civil)	80,313
7.	Lab Maintenance - Fashion Technology	1,91,550
8.	Lab Maintenance - Mechanical	3,17,512
9.	Lab Maintenance - Physics	26,129
10.	Lab Maintenance - CSE, IT, MCA	24,66,812
11.	Networking	4,33,940
12.	Software	9,48,218
13.	Teaching Aid Maintenance	2,12,150
14.	Air Conditioner Maintenance	1,67,207
15.	Audio and Video Maintenance	41,046
16.	Furniture Maintenance	3,39,827
17.	Garden Maintenance	9,78,293
18.	Electrical Maintenance	13,84,511
19.	Vehicle Maintenance	10,50,867
20.	Office Maintenance	44,921
21.	Public Address System Maintenance	65,834
22.	Water treatment Plant Maintenance	61,976
23.	Genset Maintenance	1,42,865
<b>Total</b>		<b>1,97,69,872</b>

**Total****2.89.18.058**

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

- Student orientation programme is conducted at the beginning of every academic year. The programme disseminates information on the various Student Support Services available in the college.
- The above information is also published in the college website and prospectus and are notified to the students via noticeboards and intranet also.
- Student grievance-alleviation mechanisms like Anti-Ragging Committee, SC/ST Standing Committee are established in the college to support the students.
- Class committee meetings are conducted regularly to address the academic or other classroom activities of the students.
- Alumni meetings are conducted to guide the students in getting placed in top notch companies.
- Parents meetings are conducted by each department to get feedback from the parents.
- Lecture capturing service is enabled to capture the lecture in the classrooms and students are benefitted by retrieving the same.

#### 5.2 Efforts made by the institution for tracking the progression

- The examination system has an inbuilt mechanism for monitoring the progression.
- Student performance is monitored through regular assessments.
- Student learning skill can be assessed by conducting objective type tests through MOODLE and black board software.
- Bucketing of students is done and special classes are conducted according to the students levels.
- Suggestions posted in the suggestion boxes are discussed and appropriate actions are taken.
- Holistic student development is also ensured by monitoring co-curricular and extra-curricular activities.
- Individual student counselling is assured through Faculty Advisors (FAs) who are allotted 15 students each. The FAs counsel their wards periodically and the information is recorded in the report
- The academic progress report and attendance of all the students are regularly informed to their parents via SMS.

<b>5.3 (a) Total number of students</b>	UG	PG	PhD	Others
	3867	789		
(b) No. of students from other states	83			
(c) No. of students from other countries	82			
Men students	2635 (56.6%)			
Women students	2021 (43.4%)			

Last Year (2015-2016)						This Year(2016-2017)					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
399	519	16	3890	12	4825	356	492	13	3795	12	4656

Demand ratio: 1 : 8

Drop out: 19

#### 5.4 Details of student support mechanism for coaching for competitive examinations (If any)

The department has organised coaching classes for students to take up competitive exams like GATE.

No. of student beneficiaries

188

#### 5.5 No. of students qualified in these examinations

NET  SET/SLET  GATE  CAT

IAS/IPS  State PSC  UPSC  Others

#### 5.6 Details of student counselling and career guidance

- Student counselling and career guidance are done through personality and career enhancement course in the curriculum.
- The Placement and Training Department creates awareness about career planning and career mapping among the students.
- Students are given training on life skills.
- They are also given training in the area of quantitative aptitude, logical reasoning and verbal reasoning.
- Mock interviews are conducted for the students to perform well in the job interviews. Panel members are invited from corporate sector(22 interviewers) and the alumni of the college (27 interviewers)
- Students are given training on group discussion techniques.
- Online tests and written aptitude tests are also conducted.

No. of students benefitted

1084

## 5.7 Details of campus placement

On campus			Off Campus
Number of organizations visited	Number of students participated	Number of students placed	Number of students placed
133	717	440	215

## 5.8 Details of gender sensitisation programmes

1. Women Empowerment Committee meeting was held on 06.07.2016 to discuss the safety measures for female students and the events for the academic year 2016-2017 were planned.
2. The Women Empowerment Committee of the College in coordination with SKS Hospital, Salem, has organised a guest lecture on the topic "Cancer Awareness" for female staff members on 27-10-2016. The chief guest for the function was Dr.V.Dhavashree, MBBS, DGO, DLS(Germany), ART(Singapore) consultant obstetrician and gynaecologist, SKS Hospital.
3. A series of special events was conducted for the female students from 4.1.2017 to 11.1.2017. They are as follows:
  - Quiz competition
  - Mehndi and nail art
  - "Impromptu" a word connection game
  - Debugging code
  - Paper presentation and multimedia
4. Several other competitions for female students were also conducted on 4.3.2017.
5. Women's Day celebration 2017 was organised on March, 8<sup>th</sup> 2017. The chief guests for the function were 1) Dr. Savitha Rani.M., Head, Training and Placement Department, M.S. Ramaiah Institute of Technology, Bangalore.2) Mrs G.Rajalakshmi, COO & Director, Cenza Technologies Private Limited, Chennai.
6. Women Empowerment Committee in coordination with the KOFUKAN SHITO – RYU KARATE SCHOOL INDIA, affiliated to Karate Association of India (KAI), Asian Karnataka- Do federation organised a silambam workshop.
7. A team of six faculty members from various departments of the college attended the International Women's Day Celebrations held by the MHRD Hosur Chapter.
8. MHRD Hosur Chapter organised a special industry visit for the women faculty members of engineering colleges on the eve of international women's day. The Women Empowerment Committee of our college arranged a team of six faculty members from various departments which visited the following companies
  - Luk India private Limited
  - Field Fresh Private Limited.

## 5.9 Students Activities

### 5.9.1 No. of students participated in sports, games and other events

State/ university level  National level  International level

No. of students participated in cultural events

State/ university level  National level  International level

### 5.9.2 No. of medals /awards won by students in sports, games and other events

Sports: State/ university level  National level  International level

Cultural: State/university level  National level  International level

## 5.10 Scholarships and Financial Support

	Number of students	Amount (in rupees)
Financial support from Institution	329	20,93,500
Financial support from Government	1572	2,69,63,240
Financial support from other sources	75	10,50,000
Number of students who received International scholarships	Total = 38 B.E = 34 MBA = 4	Total = 1,07,58150 B.E = 95,02350 MBA = 12,55800

### 5.11 Student Initiatives

Fairs : State/university level  National level  International level

Exhibition: State/ university level  National level  International level

**5.12 No. of social initiatives by students**

### 5.13 Major grievances of students (if any) redressed:

The institute has got a Grievance Redressal Committee, for complaints and grievances with a senior professor as convener and other senior faculty members in the team.

In addition to this, a complaint cum grievance cell is also in place having the members of faculty and deputy warden of the hostel as committee members. Every week committees receive the grievances, if any, from the students and forward them to the respective departments for redressal.



In addition to these two committees, students can also represent their problems through suggestion box or in the class committee meetings, mentor meetings, hostel meetings, Anti Ragging Committee and Disciplinary Committee meetings. This ensures a better relationship with the stakeholders.

## **Criterion – VI**

### **6. Governance, Leadership and Management**

#### **6.1 State the Vision and Mission of the institution**

##### **Vision**

To become an institute of great repute, in the fields of science, applied science, engineering, technology and management studies, by offering a full range of programmes of global standard to foster research and to transform the students into globally competent personalities.

##### **Mission**

- To offer graduate, post-graduate, doctoral and other value-added programmes beneficial for the students
- To establish state-of-the-art facilities and resources required to achieve excellence in teaching-learning and supplementary processes
- To provide faculty and staff with the required qualification and competence and to provide opportunity to upgrade their knowledge and skills
- To motivate the students to pursue higher education, appear for competitive exams, and other value added programmes for their holistic development
- To provide opportunity to the students and bring out their inherent talent
- To establish centres of excellence in the emerging areas of research
- To have regular interaction with the industries in the area of R & D and offer consultancy, training and testing services
- To offer continuing education and non-formal vocational education programmes that are beneficial to the society

## **6.2 Does the Institution have a Management Information System?**

The institution adopts a full-fledged Management Information System (MIS) which has been developed completely in-house and successfully facilitates a systemised and channelised information flow enabling easy decision making for effective administration. The MIS is widely implemented in the administration of the institution facilitating easy retrieval of the information regarding academics, examination, finance and Human Resource (HR) Department of the institution.

The academic processes like the student attendance, internal marks, conduct of end semester examination and publication of the results are computerised. An extensively computerised finance section supports activities like admission, fees collection and accounting. The HR department records the details of the faculty like the performance appraisal, feedback, faculty attendance, pay roll management, etc. with the support of the MIS. User friendly software for the purpose of library management is in place facilitating the maintenance of records relating to the availability of books, books issue/return, etc.

## **6.3 Quality improvement strategies adopted by the institution for each of the following:**

### **6.3.1 Curriculum Development**

A regular assessment of the curriculum is done through the feedback from the students, alumni, subject experts, employers and experts from the industry. The suggestions received from them are reviewed by the Department Consultative Committee. 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 and the UGC.

A framework of the curriculum is developed by the departments for their programmes. It includes a list of courses, course outcomes and evaluation pattern with weightages for the continuous internal assessment and semester-end assessment. The restructured curriculum is reviewed in the discipline-wise Boards of Studies and the recommendations are tabled at the Academic Council meeting for approval.

### **6.3.2 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, team teaching, cooperative learning, seminar, internship, projects, surveys, computer lab, simulation, field and factory visits, games and role play.

The ICT enabled technologies like Moodle, e-journals, databases like J/ gate; ProQuest, CMIE, etc. are available for the students for efficient learning. Lecture Capturing System (LCS) and Blackboard Learning management system are effectively implemented to enhance the teaching- learning process.

Students are encouraged to take MOOC and online courses offered by reputed institutes. 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.

### **6.3.3 Examination and Evaluation**

- The Controller of Examination organises the Continuous Internal Evaluation Tests (CIE), the Semester-End Examination (SEE) and the evaluation of the answer scripts.
- The question papers for CIE are set by the internal faculty.
- The question papers for the SEE are set by the internal and the external faculty.
- The question papers of the CIE and SEE are scrutinised by the Head / senior faculty member of the department.
- Steps are taken to ensure that the question papers conform to the standards of Bloom's Taxonomy.
- The college standard is that 40% of questions for tests and exams in the undergraduate programmes should encourage the use of higher-order thinking skills.
- The standard of question papers for the postgraduate programmes is that 60% of the questions should conform to higher-order thinking skills.
- A system of central valuation is adopted for the theory courses involving eighty percent external and twenty percent internal examiners.
- For the practical courses, the evaluation is done by a panel of external and internal examiners.

- The results of the semester-end examinations are published within 30 days from the date of completion of the examinations.
- The college has in place the system of providing photocopies of answer scripts and organising revaluation for the benefit of students.
- Supplementary examinations are conducted for the even semester examinations only.

#### **6.3.4 Research and Development**

- The institution provides extensive opportunities to the faculty and students for research and development. It is committed to research in the areas of science, engineering and technology and has nurtured more than 20 centres of excellence exclusively for 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 laboratory organization for doing industrial research by the 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.
- The Department of Management Studies publishes a quarterly journal, "Sona Global Management Review" (ISSN 0973 9947), an international double-blind peer-reviewed journal listed in Ebsco and Ulrich directories from 2006.
- Faculty are primarily involved in research projects that are beneficial to the society.

#### **6.3.5 Library, ICT and Physical Infrastructure / Instrumentation**

##### **Library**

- 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 software for tracking resource availability and an automated system for book/journal transactions. Additionally, there are departmental libraries to provide easy and quick access of resources to students.

- The library has also established a special niche called "Sona-LIKE" (**L**ibrary for **I**ndustry, **K**nowledge and **E**ducation) where resources and informative brochures, newsletters, write-ups and CDs on leading companies are available for students in order to enhance their placement and career focus.

#### **ICT:**

- There are adequate ICT facilities in the institution and well established policies for their deployment and maintenance.
- Every student of first year brings his/her laptop in order to take up computer based online test.
- Wi-Fi facilities and broad band internet facilities in the premises of the college and hostel are provided thereby ensuring free access to current industrial and technological trends.
- The institution deploys and employs ICTs for a range of activities like lecture capture system in every department.
- Keeping pace with the rapid advancements in technology and to benefit the students, the college has set up a portable/mounted LCD projector in all classrooms.
- All the computer labs, multimedia language lab and science labs provide opportunities for hands-on training in ICT modules.

#### **Physical Infrastructure / Instrumentation:**

- The Sigma block (GREEN Building) which is rated five star by GRIHA is one of the uniqueness of the infrastructure.
- Adequate number of seminar halls and conference halls with air-conditioners and audio-visual facilities, video-conferencing facility are available.
- All the computer labs are well equipped that fulfils the academic and research needs.
- An auditorium, amphitheatre, central library, department libraries, guest rooms, medical centre with an ambulance , sports centre, yoga centre, DTP centre, cafeteria, coffee-day kiosks, ATMs, adequate vehicle-parking space for students and staff are functioning effectively.
- CCTV cameras are installed in strategic locations on the campus. This year 100 CCTVs with 64 channel NVR-2 numbers and 16 channel NVR -2 numbers have been installed.
- Adequate numbers of fire extinguishers at vantage points are kept and the staff and students are trained to handle it.

### **6.3.6 Human Resource Management**

The heads of the departments communicate a requisition to the management through the principal and Human Resource Department (HRD) of the institution as and when vacancies arise in the department. The HRD advertises and follows a systematic procedure in recruiting teaching and non-teaching staff. Orientation and training programmes are organised periodically for the recruits. Faculty development programmes, workshops, conferences, industrial visits, seminars, etc. are organized and the faculty are encouraged to participate in similar programmes organised by other institutions, industries, etc. The faculty are motivated to be a part of professional bodies like the ISTE, CSI, CII, MMA, NHRD, etc.

### **6.3.7 Faculty and Staff Recruitment**

The steps involved in recruiting staff for the college are as follows:

Step 1: Recruitment authorisation duly approved by the principal and chairman

Step 2: Sourcing suitable candidates from various databases and other sources

Step 3: Pre screening and interview carried out by the HRD and forwarded to the department head for further shortlisting

Step 4: Interview process is organised for the shortlisted candidates by the HRD. A panel of experts conducts the interview.

Step 5: Final approval is given by the chairman and a job is offered.

A new employee will be on probation for a period of one year from the date of joining.

### **6.3.8 Industry Interaction / Collaboration**

- Signing of MOUs with industries for research projects, consultancy, placement, internship 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
- Total placement offers issued to students during this academic year is 1102.

### **6.3.9 Admission of Students**

#### **Selection Procedure:**

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 following specific norms and guidelines for selecting candidates for admission to various programmes offered by the institution:

Dr.M.Usha, Principal, Chairman –Admissions

Dr.G.M.Kadhar Nawaz, Admissions In-charge

Mr.Nagappan, Admissions In-charge

**Mode of selection:**

**BE/BTech Degree Programme - First Year**

- Based on the cut -off marks obtained in the higher secondary examination.  
Maximum Cut off mark = 200 (100 for Mathematics and 100 for Physics + Chemistry)

**BE/BTech Degree Programme - Direct Second Year Lateral Entry**

- Based on the percentage of marks obtained in the diploma examination.

**ME/MTech Degree Programme**

- Based on the score obtained in the examinations like TANCET / CET / GATE which are conducted by the Anna University and Association of Managements of Anna University Affiliated Colleges, Coimbatore

**Master of Business Administration (MBA) Degree**

- Based on the score obtained in the examinations like MAT / TANCET / CET / CMAT which are conducted by the Anna University and Association of Managements of Anna University Affiliated Colleges, Coimbatore, and AICTE

**Master of Computer Applications (MCA) Degree and Lateral Entry**

- Based on the score obtained in the examination like TANCET / CET that are conducted by the Anna University and Association of Managements of Anna University Affiliated Colleges, Coimbatore.

**6.4 Welfare Schemes for**

Teaching staff	<ul style="list-style-type: none"><li>• Contribution to provident fund</li><li>• Contribution towards medical insurance</li><li>• Maternity leave</li></ul>
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	<ul style="list-style-type: none"> <li>• Medical leave</li> <li>• Contribution to ESI</li> <li>• Advance to meet emergency expenditure</li> <li>• Medical centre</li> <li>• Gratuity</li> <li>• Personal accident insurance</li> </ul>
Non-Teaching staff	<ul style="list-style-type: none"> <li>• Uniforms for support staff</li> <li>• Financial aid for the education of the ward of support staff</li> <li>• Festival advance</li> <li>• Fee concessions for children of administrative and support staff</li> <li>• Bonus for administrative and support staff <ul style="list-style-type: none"> <li>○ Medical centre facility</li> <li>○ Gratuity</li> <li>○ Personal accident insurance</li> <li>○ Salary advance.</li> </ul> </li> </ul>
Students	<ul style="list-style-type: none"> <li>• Management Scholarship is given each year for the following categories: <ul style="list-style-type: none"> <li>➤ Sports scholarship</li> <li>➤ Merit cum means scholarship</li> <li>➤ Merit scholarship</li> <li>➤ Special scholarship</li> </ul> </li> <li>• Financial support for: <ul style="list-style-type: none"> <li>➤ Student innovative projects</li> <li>➤ Student competition</li> <li>➤ Attending seminar and conferences</li> <li>➤ Appreciation prizes for meritorious students</li> </ul> </li> <li>• Free accommodation and food in the hostel for the needy</li> <li>• 24 hours medical support</li> <li>• Insurance for the students</li> <li>• Well equipped infrastructure for disabled students.</li> <li>• Transport subsidies for the needy</li> <li>• Psychological counselling</li> <li>• Yoga counselling for mental wellbeing</li> </ul>

**6.5 Total Corpus Fund Generated**

1205.40 lakhs

**6.6 Whether annual financial audit has been done?**

Yes

No

**6.7 Whether Academic and Administrative Audit (AAA) has been done?**

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Professors from reputed colleges	Yes	Sona QMS
Administrative	Yes	Astral	Yes	Sona QMS

**6.8 Does the University/ Autonomous College declare results within 30 days?**

For UG Programmes

 Yes

For PG Programmes

 Yes**6.9 What efforts are made by the University/ autonomous college for examination reforms?**

The Continuous Internal Evaluation (CIE) marks (internal marks) for all the courses of all the semesters are displayed with the endorsement by the students after clarifying their doubts. Parents are informed of the marks through SMS.

The college has also initiated online Moodle tests for students to stimulate and develop their thinking capability. It is also envisaged that the usage of computers by students will improve because of the conduct of MOODLE test.

After the completion of every CIE test, the Principal and the Academic Director reviews the student performance in the presence of the Heads of the Departments and the Controller of Examinations. On the basis of the review, coaching classes, tutorial classes and weekend classes are organised to improve student performance. At the end of these sessions, class tests are conducted to gauge the improvement in student learning.

The CIE constitutes 50% of the marks meant for evaluation of student learning. Periodical test is conducted for every course so that students can improve and score high marks in the semester end examinations. Publication of result, revaluation and review and supplementary examinations are conducted periodically.

Mark sheets of the semester exams are printed and given to students within a span of one month after the announcements of the results. Course works for PhD scholars are also conducted. Other examination processes are carried out by Anna University, Chennai.

Online registration and fees collection were implemented for applying for revaluation and review cum photocopy. The entire operations of examinations are streamlined through Management Information System to speed up the process.

If students have any grievances with reference to evaluation, they can apply for revaluation and also obtain the photo copy of their answer script. If they are not satisfied with these results, they can apply for review and revaluation.

#### **6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

Anna University encourages the autonomous colleges to frame their own curriculum and regulations according to the needs of the industry. The syllabus can be updated from time to time on the basis of industry needs.

The university also values the fact that the college, being autonomous, can organise its own examination and evaluation system as per the vision and needs of the institute.

A Senior Professor from Anna University acts as the university nominee for the Board of Studies Meetings in framing the curriculum and syllabus as well as in the result passing board meeting.

#### **6.11 Activities and support from the Alumni Association**

The Alumni Association elects its office bearers every year. At periodical intervals, the association arranges for meeting and supports the institution in the following aspects:

- The Alumni Association works to connect alumni and the present students through a variety of events and services.
- Guest lecturers by experienced alumni are organised for students.
- Skill-based training to students to meet industry needs is conducted.

- Financial support of one lakh rupees has been given to SAE-SUPRA student formula team.
- Every department has one alumnus as a member of Board of Studies (BOS) for curriculum design.
- Industrial visits for students are facilitated by the alumni.
- Alumni help the students in getting in-plant training opportunities for students in their companies
- Alumni have also helped the students to get non paid and paid internship in the companies where they work and also in the companies which they have started.
- The Sona Alumni Association founded in 2002 is continuously fostering to build a strong industry institutional tie up among the students and management.
- The mission of the association is to strengthen the bonds between alumni, students and the institute, to keep alumni informed and create a network enabling them to remain engaged with their alma mater and help shape its future through its programmes and services.
- Through Alumni Association, guest lectures are arranged for the students. GATE coaching is provided by alumni for interested students in the department. Also, mock interviews are conducted for the final year students through the association.
- Region-wise alumni meets have been conducted in various regions like Bangalore, Chennai and Nepal.

#### **6.12 Activities and support from the Parent – Teacher Association**

- The goal of parents-teacher meeting is to bring together the interests of parents and the college to support student progression.
- Each department organizes parents-teachers meeting periodically and provides an opportunity for parents to discuss the academic performance of their wards with the faculty concerned. The departmental activities are presented to the parents.
- Students performance is informed periodically to the parents through web portal, short message service etc.
- The feedback on the curriculum is received from the parents and is considered when framing the curriculum.
- Faculty advisors take the responsibility of individual student's performance and periodically updates it to parents.

### **6.13 Development programmes for support staff**

Every year the Human Resource Department organizes development programmes for the support staff. They are also encouraged to attend suitable training programmes and developmental programs at other institutions.

### **6.14 Initiatives taken by the institution to make the campus eco-friendly**

The institution has extensively implemented ecological practices in water and energy conservation and waste management on the campus.

- The institution has a green environment with several trees to maintain the ecology of the place
- An STP water treatment plant is established in the campus for the treatment of waste water
- The recycled water is used for the maintenance of the lawns and the gardens in the campus
- A green building is prevalent in the campus and it has been awarded a five-star rating by GRIHA
- RO plants supply potable water in the college
- Rain water harvesting is adopted in the college and hostel.
- Vermicomposting is done.
- Safe disposal of laboratory wastes is done.
- Solar energy is utilised effectively.
- Photo-voltaic systems implemented in the main building.
- Solar dryer for food processing (WTP scheme) is situated in Kandarkula Manickam village.

## **CRITERION – VII**

### **7. Innovations and Best Practices**

#### **7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution.**

Initially, appraisal of staff was done by HODs.

Presently a self-appraisal mechanism is now in place which is based on data given by staff.

Only 10% of appraisal is done by HODs

A student feedback system is now available online so that an objective evaluation of the teacher and course is done. It is an unambiguous and constructive evaluation.

Research and development activities are updated by faculty as and when the event occurs.

Students are provided with opportunities to learn through lecture sessions by experts in different fields through NPTEL.

8000 user-licenses for Blackboard Learning Management Software are available on the campus for use by faculty and students. Lectures, assignments, videos, animation and quizzes are uploaded and posted on the Blackboard platform.

Lecture Capture Systems (LCS) are installed in one classroom per department. More installations are in the pipeline. The lecture sessions are posted (after necessary editing) on the LCS portal for viewing by students any number of times.

Student-centric learning, to practice industry specific cases using MOODLE is adopted.

Consistent assessment and adaptive tests are conducted using customized MOODLE.

Laboratory courses are run through MOODLE virtual laboratories.

**7.2 Provide the Action Taken Report (ATR) based on the plan of action decided at the beginning of the year**

Plan of Action	Achievements
Conduct pedagogy and training programmes for teaching faculty	<ul style="list-style-type: none"> <li>• Pedagogy Training Programme from 23-5-2016 to 28-5-2016.</li> <li>• 86 faculty members benefited from this programme</li> </ul>
Incorporating the Choice Based Credit System	<ul style="list-style-type: none"> <li>• Implemented the choice based credit system in Autonomous Regulations 2015</li> <li>• Experts from IITs, Anna University and NITs were called and discussions were held with respect to introduction of CBCS system in the college. After elaborate deliberation it was decided to implement the CBCS system in the Regulation 2015.</li> </ul>
Conduct a national conference, seminars and guest lectures	<ul style="list-style-type: none"> <li>• National conference: 2 ISGSCRE '17 CSE/IT</li> <li>• Seminar - 28</li> <li>• Guest Lecture -59</li> </ul>
Enhance the teaching-learning process	<ul style="list-style-type: none"> <li>• Moodle, Lecture Capturing System (LCS) and Blackboard training was conducted for all new faculties. Almost 90% of faculty are trained in the above teaching learning process.</li> <li>• Issue of laptops inclusive of e-books for all first-year students</li> <li>• Discussions were held with regard to the teaching methodology for fast learners and slow learners.</li> <li>• Suggestions to introduce special interest courses were made and courses like music, yoga, painting etc, are being offered.</li> <li>• For better understanding of the subjects, some courses have been redesigned as laboratory based courses.</li> <li>• Online courses (NPTEL/Coursera/others) was taken up and completed by 82 faculty this year</li> </ul>

Enhance the security system in the campus	<ul style="list-style-type: none"> <li>Surveillance cameras are already in place, but to enhance the security measures, an additional 100 cameras were installed this year at vantage points in the campus.</li> </ul>
Internal Quality Auditors Training	<ul style="list-style-type: none"> <li>Conducted on 6<sup>th</sup> and 7<sup>th</sup> June 2016.</li> <li>Awareness cum training programme for Auditors and ISO core team members on 26-04-2016.</li> </ul>
Conduct academic audits	<ul style="list-style-type: none"> <li>Internal Audit: CIE answers scripts are audited by the senior faculty of the departments concerned. The audited reports are submitted by the departments to the office of COE after completion of each CIE.</li> <li>External Audit: Question papers and answers scripts are scrutinized by experts from reputed educational institutions such as IIT, NIT etc. The report is sent to the departments.</li> </ul>
Monitor student performance and counsel each student individually	<ul style="list-style-type: none"> <li>In addition to regular counselling of students, special counselling session along with parents were conducted for slow learners and poor performers in internal tests and exams.</li> <li>Psychological counselling is conducted by a psychiatrist in addition to the above.</li> </ul>
R&D activities	<ul style="list-style-type: none"> <li>Papers published : 260</li> <li>International conference : 27</li> <li>National conference : 28</li> <li>Patents filed:8</li> <li>MoUs signed: 28</li> <li>Sponsored projects: 46</li> <li>Project funding: 509.28 Lakhs</li> </ul>
Organise extra-curricular activities through NCC, NSS, YRC	<ul style="list-style-type: none"> <li>120 programmes conducted overall: NCC-18 NSS-37 YRC-65</li> <li>As part of the Swatchatha Seva initiatives of the government of India and AICTE, a system has been put in place to keep the campus clean.</li> </ul>
Sports activities	<ul style="list-style-type: none"> <li>Won Zonal Level Overall Championship Second Runner Up with 240 points in the Anna University Sports Board Competitions, Chennai.</li> </ul>



### **7.3 Give two best practices of the institution**

Considering the recession in the job market and decreasing job availability in IT sector, the management has decided to have a start-up with high value. Considering the feedback from parents, the management is getting more reputed companies to recruit the students. Multinational companies were invited to increase the contest. CII has come forward with a plan to reduce the gap between industry and institutions. The plan is to increase the number of students going for internship during the eighth semester. The respective Board of Studies have made recommendation in their curriculum to send students for internship to enhance their placement opportunities.

With strong culture, the management has set up a standalone center for social responsibility which does community work in villages surrounding Salem. The college has received the DST approval for Health care, waste wealth and value addition to agriculture products. Training is given in villages to train semi-skilled manpower to improve the total livelihood of women in villages. Also a predictive analysis is conducted for impending breast cancer to achieve new technology for cancer eradication.

### **7.4 Contribution to environmental awareness / protection**

- 1.** Sona College of Technology received the prestigious GRIHA 5–Star rating from the Association for Development and Research of Sustainable Habitats (ADARSH), a society jointly founded by the Ministry of New and Renewable Energy (MNRE), Government of India and The Energy Resources Institute (TERI). The 5–Star rating is awarded to the Sona SIGMA BLOCK, in which several green features are incorporated like innovative energy and water efficiency measures, reducing the cooling demand of the building, reducing long term operating costs, etc.

#### **2. Environment Conservation Initiatives**

- Use of renewable energy by installing additional capacity solar panels.
- Dense plantation and landscaping on the campus
- Hazardous waste managed safely
- Installation of solar-energy windmill
- Bio-gas plant installed in the hostel premises
- Eco-friendly papers used for documentation
- Researches focusing on preserving the environment
- Segregation of waste at source.
- Awareness to the staff and students on environment cleanliness.

- Regular participation in Swatchatha Seva initiatives of the government of India and AICTE.

**7.5 Whether environmental audit was conducted?** No  Yes

**7.6. Any other relevant information the institution wishes to add.**

**STRENGTHS:**

1. Out of a total 345 faculty there are 109 have Ph.D degrees.
2. Out of the rest, 169 staff are pursuing their Ph.D programmes.
3. Staff with Ph.D qualification are uniformly distributed in all the departments (with a minimum 35% of staff in each department)
4. Only Ph.Ds can apply for any vacancies that may arise.
5. Sona has 36 R&D centres and further centres are being added.
6. Sona is a FIST funded institute where interdisciplinary research is being undertaken.
7. The management fully supports and encourages all the R & D centres.
8. Regular visits by senior scientists and researchers from elite institutions and government R & D establishments are brought to the college for further improvement in the research areas.
9. Additional financial support is given to member involved in research activities.
10. The Fashion Technology department do not have a master's course, but has an updated research centre.
11. During appointment, every faculty interacts with the chairman.
12. The College has adequate infrastructure facilities for the overall development of the students.
13. It also has a conducive atmosphere with a clean and green campus.
14. Students are given liberal funding support and encouragement.
15. As part of the extra-curricular activities, a diverse range of student clubs are there for holistic student development.
16. Students are given training for GATE / UPSC & GRE exams.
17. Those who have worked as principals, directors and deans in other colleges are appointed in the college.
18. In order to leverage the connection between institution and industry a Director has been appointed as the in-charge of industry connect.
19. Experts from industries visit the campus on a weekly basis to deliver guest lectures and interact with the students.

20. Several on-line programmes are conducted and staff members doing NPTEL/Coursera courses are given special allowances.
21. Staff presenting papers in other colleges are given travelling allowance and registration fees.
22. Every year there is a phenomenal growth in R&D. This year an ERP centre is being planned.
23. An exclusive department for training has been established with 12 staff members who exclusively give company specific training to students.

#### WEAKNESSES:

1. Salem being a Tier II city, there are only a few industries that employ the students.
2. For the past 7 years the government of Tamil Nadu has not increased the tuition fees of the students.

#### THREATS:

1. Branding of college is always related to placement and because of the downfall of IT sector, MNCs either stopped or reduced their recruitments.
2. This year Anna University Chennai, has not conducted the pooled campus drive for affiliated colleges.
3. With more number of Ph.D staff, the salary overhead is high. So it is difficult to retain talented faculty.
4. Because of the two language formulae in Tamil Nadu, the mobility of the students to other state for jobs is a challenge.
5. There are no entrance exams for engineering admissions.
6. Counselling gets delayed regularly for the last few years since the government is not taking quick decisions. Hence students join and leave the course. Even top ranking colleges are affected by this.
7. Students from regional medium students are less proficient in English which is needed for getting placed in companies.
8. Counselling by the affiliated university to admission for engineering colleges is not pre-determined because there is no unified calendar.
9. A stand alone Centre for Social Responsibility has been setup.

## 8. Plans of the institution for the next year

To increase the innovative ability of students, the entrepreneurship development cell proposes to conduct programs. This will increase the number of companies to have incubation centers in the campus. One such company VEE Technologies has already set-up a center.

The management has planned to increase patenting by appointing a full-time patent officer who will help and guide the faculty for getting financial support. An advertisement has been given for the appointment of patent officer.

Periodic awareness programmes was conducted by Mr Chandrasekar, Ex-Director General of patents and Mr Kanthababu, Director- Patent Education, Anna University to increase patents useful to the society.

The management also encourages to do projects on Smart City initiatives of Salem. To enhance facilities for the above, infrastructure additions to various building blocks have been planned.

It is aimed to generate a revenue of Rs.3 crores through research activities, continuing education, industrial consultancy and testing services and initiate steps to become a university.

Name: Dr. R. Vinod Kumar, IQAC Coordinator  
Sona College of Technology, Salem



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Signature of the Coordinator, IQAC

Name: Dr.M.Usha, Principal  
Sona College of Technology, Salem



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Signature of the Chairperson, IQAC

## Academic Calendar in Annexure I

### TENTATIVE COLLEGE LEVEL EVENTS 2016-2017

<b>June 16</b> Week 23	Formation of Departmental Technical Associations
<b>July 16</b> Week 29	Formation of all Students Club Fresher's Day
<b>August 16</b> Week 31	Inauguration of Students Clubs
<b>September 16</b> Week 37	Staff Awards Day
<b>January 17</b> Week 03 26 <sup>th</sup>	Management Scholarship Day Republic Day
<b>March 17</b> Week 10	Sports Day International Women's Day Annual Day Cultural Day Graduation Day Hostel Day

## DEPARTMENT OF MECHANICAL ENGINEERING

### May 16

Week 20            2-Week ISTE Workshop on Fluid Mechanics  
 Week 21            2-Week ISTE Workshop on Fluid Mechanics

### June 16

Week 25            Inauguration of Mechanical Engineering Association

### July 16

Week 29            Guest lecture - I

### August 16

Week 31            SAE Club Activities  
 Week 32            Guest lecture for second and third year students - II  
 Week 33            Industrial Visit  
 Week 34            SAE Events- Guest lecture - III

### September 16

Week 37            SAE Events- Guest lecture - IV  
 Week 39            MECHSPARK 2016

### October 16

Week 40            SAETREK  
 Week 41            SAE Factory Visit

### November 16

Week 46            MECHTRIX 2016

### December 16

Week 51            Faculty Development Programme

### January 17

Week 02            Guest Lecture - V

### February 17

Week 07            Guest Lecture - VI  
 Week 08            SAE Factory Visit

### March 17

Week 10            MASS - A National Level Technical Symposium

### April 17

Week 14            SAE Events- Guest lecture - VII

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGG .

### July 16

Week 27	Inauguration of the Association and Guest Lecture - I
Week 29	IEEE & WIE Inauguration
Week 30	First Review of PW (for final year students) IEI Electrical Chapter Inauguration

### August 16

Week 32	Industrial Visit
Week 33	Guest lecture - II
Week 34	Second Review of PW (for final year students) Workshop

### September 16

Week 36	GATE Awareness programme
Week 37	Guest Lecture - III IEEE Intra College Technical Symposium 'Techgrill'
Week 38	Edison Symposium
Week 39	Third Review (for final year students) IEEE Symposium Circuitrix

### October 16

Week 40	IEEE day
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### December 16

Week 52	Guest Lecture - IV
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### January 17

Week 03	Workshop / Conference
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### February 17

Week 07	Importance of GATE and Preparation - Lecture
Week 08	Guest Lecture - V
Week 09	Inter-Department Project Competition 'Techshow' Second Review (for Final Year students)

### March 17

Week 11	Final Review (for final year students)
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGG.

<b>July 16</b>	Inauguration Guest Lecture - I Workshop
<b>August 16</b>	Workshop Guest Lecture - II Parents Meeting
<b>September 16</b>	ELECTROBLITZ (intra college symposium)
<b>October 16</b>	Guest Lecture - III
<b>December 16</b>	Guest Lecture - IV
<b>January 17</b>	Workshop
<b>February 17</b>	Workshop
<b>March 17</b>	Fractals'17 Guest Lecture - V Valedictory Function



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### June 16

Week 26 Guest lecture on "Web Technology Tools"-I  
National Level Workshop on Big Data and Cloud

### July 16

Week 28 Guest lecture on "Thinking on Algorithms"-II  
Orientation Programme for II Year  
Week 30 Workshop -I

### August 16

Week 31 Guest Lecture "Complexity Theorems"-III  
Parents Meet for UG -II Year  
Mini Project Zero review  
Week 32 Workshop -II  
Inauguration of association activities  
Week 33 Industrial Visit for UG -II Year  
Week 34 Parents Meet for UG - II Year

### September 16

Week 36 Inauguration for I Year PG and Code Marathon Event  
Mini Project 1<sup>st</sup> review  
Industrial Visit for UG -III Year  
Week 37 Workshop - III Elite Alumni Talk - Ca reer Scope for  
Software Testing Professionals  
CSI Guest Lecture - IV

### October 16

Week 40 CSI Contest  
Week 41 Mini Project 2nd review  
Software Exhibition 'SPARK'16'  
Week 42 Guest Lecture "Python and PHP"-V  
Mini Project review for UG and Innovation Expo Event  
Week 43 Project Phase I Viva Voce for ME(CSE) and ME(SE)

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### November 16

Week 45	Workshop -IV
Week 46	CSI association special lecture
Week 47	Guest Lecture – IV & Alumni Talk

### December 16

Week 49	Seminar for I Year PG
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### January 17

Week 1	Guest Lecture - VII
Week 2	Workshop – V & Appathon'17
Week 4	UG Project Zero review

### February 17

Week 6	Mini Project Zero review
Week 7	National Level Workshop CSI association special lecture
Week 8	Technical Seminar for UG
Week 9	UG Project 1st review and Alumni Meet' 17

### March 17

Week 10	A National Level Technical Symposium 'THREADS'17'
Week 11	A National Level Conference 'NAC-CISS'17'
	Mini Project 1st review
Week 13	UG Project 2nd review

### April 17

Week 14	Mini Project 2nd review
Week 15	Guest Lecture on Life at IT Companies and Etiquettes
Week 16	UG Project 3rd review
Week 17	Workshop – VI and Project Design Contest Association Valedictory function

### May 17

Week 18	Final Project review for UG
Week 19	Mini Project 3rd review

## DEPARTMENT OF INFORMATION TECHNOLOGY

### June 16

Week 25 Training programme for final year students

### July 16

Week 27 IT Association: Office bearers election and kick starting the association activities

Week 29 Guest Lecture for final year students - I

Final Year and M.Tech Project Phase I- First Review

Week 30 Special lecture for Final and Third year students

### August 16

Week 31 Software Freedom Day

Week 32 Guest Lecture for Second & Third year students - II

Final Year and M.Tech Project Phase I- Second Review

Week 33 Software Exhibition -ignite'16

Week 34 Guest lecture for final year students - III

### September 16

Week 36 Workshop for third year and final Year Students

Week 37 Final Year and M.Tech Project Phase I-Third Review

Guest Lecture for Second and Third year students - IV

Week 39 Guest Lecture for Final year students - V

### October 16

Week 41 Faculty Development Program

### December 16

Week 49 Final Year B. Tech & M. Tech Project work starts

Week 50 One day workshop

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**January 17**

Week 1            First review of the B. Tech Final Year and M.Tech Project.  
Week 2            Intra Departmental Technical Competition  
Week 3            Alumni day

**February 17**

Week 6            1st review of II & III year B.Tech mini project work  
Week 7            Second review of the Final Year B.Tech & M. Tech Project  
                         Guest Lecture for Second & Third year students  
                         0th review of M. Tech First Year mini Project work  
Week 8            Third review of Final Year B.Tech & M. Tech Projects  
Week 9            IInd review of II & III year B.Tech mini project work  
                         1st review of M. Tech First Year mini Project work

**March 17**

Week 10           One day workshop  
                         National Level student's symposium  
Week 11           IInd review of M. Tech first year mini Project work  
                         National Seminar  
Week 13           Guest Lecture for third year students  
                         Association valedictory function and Awards day

**April 17**

Week 14           Final review and demonstration of the Final Year B.Tech

## DEPARTMENT OF CIVIL ENGINEERING

### July 16

Week 29 UG & PG Project Work - 0th Review  
Guest Lecture

### August 16

Week 33 Guest Lecture - I  
Week 34 Parents Meet

### September 16

07.09.2015 Concrete day Celebrations - Work Shop / Seminar  
Week 37 Guest Lecture - II  
15.09.2015 Engineers' day Celebrations - Workshop / Seminar  
Week 38 UG & PG Project Work - 2nd Review  
CORE'16 - Intra Department Symposium

### October 16

Week 41 UG & PG Project Work - 3 rd & Final Review

### December 16

Week 51 Guest Lecture - III  
UG & PG Project Work - 0th Review

### January 17

Week 3 Guest Lecture - IV  
UG & PG Project Work - 1st Review  
Parents Meet  
Week 4 Workshop / Seminar

### February 17

Week 7 Guest Lecture - V  
Week 8 UG & PG Project Work - 2nd Review

### March 17

Week 10 CARVE' 16 - Students' Symposium  
Week 12 UG & PG Project 3rd & Final Review

## DEPARTMENT OF FASHION TECHNOLOGY

### July 16

Week 27	Project work-Phase I – 0th Review
Week 29	Special placement training (PZM Solutions, Chennai)
Week 30	Project work-Phase I – 1st Review

### August 16

Week 32	SONAFTA-2016: Inauguration cum Intra-departmental Student Symposium Guest Lecture/Workshop – Semester 3, 5 and 7 Parents-Teachers Meeting – Semester 3,5 and 7
Week 33	Industrial visit – Semester 3,5and 7
Week 34	Guest lecture/Workshop -Semester 3, 5 and 7 Project work Phase I – 2nd Review

### September 16

Week 37	SONA SARTORIA – 2016: Inter- college student symposium
Week 38	Guest lecture /Workshop- Semester 3, 5 and 7
Week 39	Project work Phase I – 3rd Review

### October 16

Week 40	Project work Phase I - Model Viva-Voce
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### November 16

Week 47	In-plant training for 3rd year students
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### January 17

Week 04	Final-year placement training Project work Phase II – 1st Review
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### February 17

Week 06	Guest Lecture/Work shop - Semester 4, 6 and 8
Week 07	Industrial visit – Semester 4 and 6
Week 09	Project work Phase II – 2nd Review National Conference/Seminar

## DEPARTMENT OF FASHION TECHNOLOGY

### March 17

Week 11	Guest Lecture/ Work shop - Semester 4, 6 and 8
Week 12	Training programme for Women Development
Week 13	Project work- Phase II - 3rd Review
	SONAFTA-2017: Valediction cum Student Awards Day

### April 17

Week 16	Project work - Phase II - Model Viva-Voce
Week 17	BoS Meeting

### May & June 17

Week 21 onwards	In-plant training for 2nd and 3rd year students
Week -I May to Week 23 June	Staff (Teaching and Non-Teaching) Training

## DEPARTMENT OF MANAGEMENT STUDIES

### July 16

Week 27	HR Guest lecture on 11.07.2016 -IRLW
Week 29	Banking – Guest Lecture

### August 16

Week 31	Guest Lecture on CRM
Week 32	FDP

### September 16

Week 36	I MBA Induction Programme
Week 37	Guest Lecture on Entrepreneurship
Week 38	I MBA Guest lecture Finance guest lecture / workshop
15.09.2016	Workshop on Selling
Week 39	One day seminar in HR – effective practices in recruitment I MBA Guest lecture

### October 16

Week 40	Dhriti 2016 – students management meet
Week 41	Finance guest lecture – Banking II MBA

### December 16

Week 51	FDP on curriculum Development
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### January 17

Week 01	II MBA main project Jan – April 2017
Week 02	II MBA main project Jan – April 2017
Week 03	II MBA main project Jan – April 2017
Week 04	II MBA main project Jan – April 2017



## DEPARTMENT OF MANAGEMENT STUDIES

### February 17

Week 06	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 07	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 08	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 09	II MBA main project Jan – April 2017 I MBA Guest Lecture Dhiriti - 2016

### March 17

Week 10	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 11	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 12	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 13	II MBA main project Jan – April 2017 I MBA Guest Lecture

### April 17

Week 14	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 15	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 16	II MBA main project Jan – April 2017 I MBA Guest Lecture
Week 17	II MBA main project Jan – April 2017

## MASTER OF COMPUTER APPLICATIONS

### July 16

- Week 27 Soft Skill Training Programme "Technical Interview"  
Week 29 Soft Skill Training Programme "Hands on training C&C++"

### August 16

- Week 31 ORACLE - Training Program  
Week 32 Career Opportunities Training  
Week 33 Intra Department Technical Event  
Week 34 Guest Lecture on "Network Protocol"

### September 16

- Week 36 Inauguration of students association  
Week 37 Guest lecture on Big data and cloud computing  
Week 38 Computer Networks and IT trends  
Week 39 Inter Department Technical Meet

### October 16

- Week 40 Guest lecture on Ethical hacking

### January 17

- Week 41 Guest lecturer on Software testing tools

### February 17

- Week 06 Guest lecture on Mobile Apps  
Week 08 Guest lecture on ERP

### March 17

- Week 11 One day students symposium  
Career guidance program  
Week 12 Valedictory for MCA Association

## ELECTRONICS AND COMMUNICATION - PG

### September 16

Week 37 Inauguration of ECE - PG Association

Week 38 Mentor Graphics - Workshop

### October 16

Week 40 NS2 Workshop

Week 41 Guest Lecture for Communication Systems

### November 16

Week 46 Guest Lecture for VLSI

### February 17

Week 07 Guest Lecture for VLSI

### March 17

Week 11 iComET '17 - National Level Symposium, Guest Lecture

Week 12 Advanced Design Systems - Workshop

Week 13 International Conference

### April 17

Week 15 Valedictory function of ECE - PG Association

## DEPARTMENT OF SCIENCE AND HUMANITIES

### July 16

Week 28	Workshop on GD, Interview Skills and Verbal Aptitude
Week 29	Workshop on Communication Skills and Soft Skills
Week 30	Workshop on GD, Interview Skills and Verbal Aptitude

### August 16

Week 31	Workshop on GD, Interview Skills and Verbal Aptitude
Week 32	Workshop on Communication Skills and Soft Skills
Week 33	Workshop on GD, Interview Skills and Verbal Aptitude
Week 34	Induction Programme - "Introduction of various facilities and clubs of Sona"

### September 16

Week 36	Motivation Program - Phase I "Preparing for Engineering"
Week 37	Orientation Program - I "SWOT Analysis"
Week 39	Orientation Program - II "Art of Mind Control"

### October 16

Week 40	Orientation Programme - II "Soft Skills - Communication"
Week 41	Orientation Programme - IV "Soft Skills - Time Management"
Week 43	Orientation Programme Phase V "Soft skills - Goal Setting"

### January 17

Week 04	Motivation Programme Phase II "How to prepare a paper for paper presentation in conferences/seminars/symposiums"
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### February 17

Week 06	Orientation Programme - Phase VI "Soft Skills - Personality Development"
Week 07	Motivation Programme - Phase III "Mind Management"
28th	National Science Day
Semester II	Certificate Program - II "Powerpoint and Animation"
Semester I & II	Guest lectures on Youth Day, Science Day, Health Day.

## DEPARTMENT OF SCIENCE AND HUMANITIES

### **August 16**

Week 33 Guest lecture by university faculties

### **February 17**

Week 06 Guest lecture by university faculties

### **May - June 17**

3 Weeks Transit course for lateral entry students

## **Annexure II**

### **Feedback Analysis from Stakeholders**

The college has formal procedures to obtain feedback from alumni, employers, parents and students. The major points derived from the feedback analysis are listed here.

#### **Alumni**

- Alumni feedback is used for assessment of PEOs since they have intimate knowledge of the program and also have experience in industries
- Alumni suggested to their juniors to take certification courses to enrich their knowledge
- The 2015 regulation under CBCS will be very useful for students career growth
- Alumni appreciated the technology awareness given by the Sona Programming Club which helps them in their project and also appreciated the faculty members for their contribution to their growth
- Excellent academic support is extended by the faculty members
- Specific domain area training needs to improve
- Students friendly environment to excel in academics
- Career oriented training is given to improve communication skills but more number of group discussions are needed.
- Excellent infrastructure and lab facilities are provided for the students

#### **Employers**

- Employers gave a positive feedback about the students communication skills and logical solving skill
- Employers felt that the college curriculum and syllabus meets the current industrial needs
- Alumni are performing well in their respective industries and are able to complete a given task in time.
- The autonomous curriculum and syllabi are good. It will definitely meet the industrial requirements expected from the students
- Employers rate the graduates written and oral communication abilities to be excellent.
- The graduates are volunteering to solve societal problems and are performing excellently in team work.

## **Parents**

- Parents expressed that the parents-teachers meeting is a good opportunity for the parents to know about their ward's progress in the studies and other activities, departmental activities and its initiatives towards student development.
- They insisted that the students should be placed in reputed companies before the completion of their degrees
- One of the parents requested to conduct parents' teachers meeting once in three months
- They felt happy about the SMS sent by college for every hour attendance
- They appreciated the class counsellors for their effort taken to guide their wards
- They appreciated the Faculty advisors for their counselling given to their wards
- They felt that the hostel facilities are good. Also they appreciated the club activities in the college
- They suggested to have some additional coaching classes especially for the maths related subject for the lateral entry students
- They also requested the faculty to educate the students using ICT technology only for the good cause
- Facilities in the hostel, internet and library are good
- Parents are satisfied with the present teaching and learning process followed in the college
- They are satisfied with the student information system(MIS) followed in the college.
- They are satisfied with the facilities and infrastructure of the college
- The HODs informed parents that using Learning Management Systems like Moodle, Black board the students can take up their online tests from anywhere using mobile phones or laptops which help to improve their knowledge.
- They expressed that the Parent Teachers meet is very useful and expected to be continued in future
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## **Students**

- Students are very happy and appreciated the LCS (Lecture Capturing System), so that they can view the class videos later for any doubts.
- Students were benefitted by Blackboard / Moodle usage.
- Majority of the students have reported that the academic and research activities of the college is excellent.

- Student feedback on curriculum is taken into consideration to frame new curriculum during the Board of Studies meetings
- They wanted more opportunities to be given for enhancing the knowledge in research field
- They appreciated good teaching learning process by experienced faculty
- Majority of students have reported that the teaching, placements and research activities of the college are excellent





## SONA COLLEGE OF TECHNOLOGY

Junction Main Road, Suramangalam (PO), Salem - 636 005

Phone : +91 427 - 4099999 | Fax : +91 427 - 4099888

Website : [www.sonatech.ac.in](http://www.sonatech.ac.in)