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PART-I INSTITUTIONAL DATA

A. PROFILE OF THE COLLEGE

1. Name and address of the College: Sona College of Technology

Sona Nagar

Thiagarajar Polytechnic College

Road,

Suramangalam (PO)

Salem Dt. Tamil Nadu

Pin Code: 636 005

2. For Communication : OFFICE

i. Name of the Principal : Dr. P. Govindarajan

ii. Area/STD Code : 0427

iii. Telephone No. : 4099992

iv. Mobile No. : 9443366495

Fax No. : 0427-4099888

E-mail ID : principal@sonatech.ac.in

For Communication : RESIDENCE

i. Name of the Principal : Dr. P. Govindarajan

ii. Area/STD Code : 0427

iii. Telephone No. : 2466459

iv. Mobile No. : 9443366495

Fax No. :

E-mail ID : principal@sonatech.ac.in

3. Funding Status of the College :								
Government funded	I							
Grant- in -aid	Grant- in -aid							
Self-financing								
4. Type of Autonomous co	ollege							
a) Affiliated								
Constituent								
College with po	tential for excellence							
b) by gender								
For Men								
For Women								
For Co-education	n 🗸	1						
5. a). Date of establishmen	nt of the college : 15	.07.1997						
(Prior to autonomou	s status)							
b). University to which the Technology, Coimbatore	college is affiliated : Ann	a University of						
6. Dates of UGC recogni	tion:							
	Date, Month & Year							
Under Section	(dd-mm-yyyy)	Remarks						
i. 2(f)	25.06.2009							
ii. 12(B)	27.08.2010							
(Certificate of recognition u/s 2(f) and 12(B) may be enclosed)								
7. Date of conferment of the autonomous status : 17.09.2010								
8. Location of the college: (based on Govt. of India Census)								
(Based on Census/GoI criteria)								
Urban	Urban							
Semi-urban		Semi-urban						

Rural	
Tribal	
Hilly Area	
Any other (specify)	
9. Campus area in acres/sq.mts	34.5 acres / 139898 Sq. m.
10. Unit Cost of Education :	
(a) Total annual expenditure divided by the	e number of students
(Including the salary component)	Recurring - 58,700
(b) Total annual expenditure divided by	Non- Recurring - 28,800 Total - 87,500
(Excluding the salary component)	Recurring - 33,400 Non- Recurring - 28,600 Total - 62,000

11. Current number of academic programmes / courses offered by the college under the following categories:

(Enclose the list of academic programmes offered)

Programmes	Number
UG	7
PG	10
Certificate course	
Diploma	
PG Diploma	
M. Phil.	
Ph.D.	
Any other (specify)	
Total	17

12. Number of permanent and temporary members of the teaching staff:

	Female	Male	Total	
Permanent teachers (Total)	129	155	284	
Number of teachers with Ph.D. as the	12	23	35	
highest qualification				
Number of teachers with M.Phil. as the	35	18	53	
highest qualification		10		
Number of teachers with PG as the	79	107	186	
highest qualification		107	100	
Number of teachers with UG	3	7	10	
qualification	3	1	10	
Temporary teachers (Total)				
Number of teachers with Ph.D. as the				
highest qualification				
Number of teachers with M.Phil. as the				
highest qualification				
Number of teachers with PG as the				
highest qualification	Not	A nnliachl	0	
Part-time teachers (Total)	NOU	Applicable	t	
Part-time teachers with Ph.D. as the				
highest qualification				
Part-time teachers with M.Phil. as the				
highest qualification				
Part-time teachers with PG as the highest				
qualification				

13. Furnish data about the number of students enrolled in the institution, for the current year:

	UG			PG	Total
	Profes	Non-	Profession	Non-	
	sional	Professional	al	Professional	
Students from the same state where the university is located	3360	-	901	-	4261
Students from other states of India	21	-	8	-	29
NRI students	-	-	-	-	-
Other overseas students	171	-	29	-	200
Grand Total	3552		938	-	4490

		M. Phil	Ph	. D D	iplom	a Ce	ertificate
sar	imber of students from the me State where the college is cated					·	
	umber of students from other nates			No	ot App	licable	
Nu	umber of NRI students						
Nu	imber of overseas students						
	CRITERION-WISE INPUTS	5					
	iterion I: Curricular Aspects						
1.	Number of Programmes o	ffered	:				\neg
				• (Certific	ate _	<u>-</u>
				• [Diplom	a [<u>-</u>
				• [JG	L	7
				• P	P G		10
				• F	Researc	h	-
2	Namel on all Carles at torocht at	Г			1		
2	Number of Subject taught at the institution		1	17			
3	Number of overseas	NO.	Am	ount	Ago	ency	
	programmes on campus and income earned			NO			
4	Does the college offer self-	Yes	_	NO			
	funded programmes?			1,0			
			_		_		
	If, Yes, how many?			17			
			_				
5	Programmes with annual	Yes		NO	_	Number	-
	system						
			1		1	ı	
6	Programmes with semester system	Yes	~	NO		Number	16
	•						

7	Programmes with trimester system	Yes	/	NO		Number	1
8	Programmes with choice based credit system	Yes		NO	_	Number	-
					•		
9	Programmes with elective options	Yes	_	NO		Number	17
					•		
10	Courses offered in modular form	Yes		NO	_	Number	
					l		
11	Inter/multidisciplinary Programmes	Yes		NO	^	Number	
					ı		
12	Courses with ICT-enabled teaching-learning process	Yes	_	NO		Number	113
13	Courses for which where assessment of teachers by students has been introduced	Yes	_	NO		Number	17
							<u> </u>
14	Programmes with faculty exchange/visiting faculty	Yes	_	NO		Number	01
15	New Programmes (UG and PG) introduced during the last three years	Yes		NO	^	Number	
			1		1		1
16	Has major syllabus revision done during the last five years?	Yes	_	NO		Number	NA Revision by Anna University

17	Compu	lsor	y	internships
	(UGC	or	other	vocational
	prograi	nme		

Yes	^	NO	Number	07

18 Value added courses

Yes	^	NO	Number	60

19 Feedback on curriculum Employers

carricaran	
otained fron Student	
Parent	S
Alumn	i

Yes	_	NO	Number	37
Yes	^	NO	Number	347
Yes	<u></u>	NO	Number	10
Yes	<u> </u>	NO	Number	30
Yes	<u></u>	NO	Number	26

Academic Peers

20	Number	of	Job	Oriented
	Courses			

Yes	^	NO	Number	17

21 Courses in emerging areas

Yes	^	NO	Number	17

22 Is there a practice of course evaluation

Yes	NO		Number	5
-----	----	--	--------	---

23 Programmes with twinning arrangements / international collaborations

Yes	<u> </u>	NO	Number	1

24 Any other (Specify)

ı			
- 1			
- 1			
- 1			
- 1			
- 1			
- 1			

Criterion II: Teaching – Learning and Evaluation

Process of Student admission to various programmes

Entrance Test	Yes	NO	_	Number of Programm es
Interview		l l	1	
Previous Academic Record	As per Guidelines of Tamil Nadu Government			
Any other (Specify)				

Number of working days during the academic year

210

Number of teaching days during the last academic year

190

4 Number of Position sanctioned and filled as on date

Teaching	
Non-Teaching	
Technical	

Sanctioned	Filled
264	284
-	188
-	82

5 a. Number of regular and permanent teachers (gender-wise)

Professor	M	28	F	8
Readers	M	33	F	31
Sr. Grade Lecturers	M	20	F	23
Lecturers	M	74	F	67

b. Number of temporary teachers (gender-wise)

Lecturers – Full-Time

M	-	F	-

Lecturers – Part-Time	M	-	F	-
Lecturers (Management appointment) – Full-Time	M	-	F	-
Lecturers (Management appointment) – Part-Time	M	-	F	-
Any other (Specify)	M	-	F	-
Total	M	-	F	-
c. Number of teachers belonging to	<u>'</u>	<u>'</u>		
Same State		278		
Other States		06		
Overseas		NIL		
a. Number of Permanent teachers qualified and its percentage of the total faculty strength	No.	284	%	100
b. Teacher: Student ratio		1:	14	
		1		
c. Number and percentage of teachers who have Ph.D. as the highest qualification	No.	35	%	12.3
d. Number and percentage of teachers who have M. Phill as the highest qualification	No.	53	%	18.7
e. Number and percentage of teachers who have completed UGC, NET and SLET exams	No.	4	%	12.5

f. Number and percentage of teachers who have served as resource persons in Workshops/Seminars/Conferences, during the last five years?

g. Number of faculty development programmes availed of by teachers during the last five years

Refresher:

Orientation:

UGC/FIP

Any other (FDP, Conference)

Year						
05-06	06-07	07-08	08-09	09-10		
30	52	55	31	31		
18	21	23	30	18		
4	5	6	13	4		
85	81	105	97	111		

h. Number of faculty development programmes organized by the college

Seminar/Workshops/Symposia on Curricular development, teaching-learning, assessment and so on

Research development programmes

Invited/endowment lecturers

Any other (MDP)

Year						
05-06	06-07	07-08	08-09	09-10		
47	52	47	47	51		
1	5	7	11	14		
6	7	6	5	6		
7	13	3	5	2		

7 Number and Percentage of the courses where 'predominantly' lecture method is used

No	17	%	100

8. Does the college have the tutor-ward system?

If yes, how many students are under the care of a teacher?

Yes	^	No	Number	284
	15	5		

9.]	Remedial programmes offered	Yes	✓	No	Number
10.	Bridge courses offered	Yes	1	No	Number
11.	Is there a mechanism for:				
a.	Self appraisal of faculty			Yes	No
b.	Student assessment of faculty performan	ce		Yes /	No
c.	Assessment of faculty performance by ex	xperts		Yes /	No
1′	Do the feaulty members perform addition	.ma1			

12 Do the faculty members perform additional
administrative work?
If yes, the average number of hours spent per week by the
faculty

Yes	^	No	
	0	5	

13. Any other (Specify)	

Criterion III: Research, Consultancy and Extension

1. Number and Percentage of faculty members actively involved in research guidance and projects

Yes No Number 185

2. Are there any Research collaborations?

National

If yes, how many?

Overseas

If yes, how many?

Yes □ No □

If yes, how many?

07

3. Total Amount and Percentage of the annual budget allocated for promotion of research

Amount	196.10	%	2.27%
	Lakhs		

(during the last five years)

4. a. Do the faculty members have research projects? (on going/completed) If yes, how many?

Yes **✓** No □

Ongoing

Completed

68

b. Provide the following details about the on going research projects (Last 5 Years)

Major	Yes	1	No	Number	14	Agency	AICTE	Amount	143.1
projects							DST		LAKHS
							ISRO		
Minor projects	Yes	^	No	Number	04	Agency	AICTE	Amount	17 LAKHS
College procured Projects	Yes	•	No	Number	05	Amount	34.27 L.	AKHS	

Industry	Yes	<u></u>	No	Number	03	Industry		Amount	30.62
sponsored									
Any other									
(specify)									
Number	Yes	1	No	Number.	03	Amount	Amount	sanctioned	by other
of student						sanctioned	agencies	3	
research						by the	75 I	AKHS	
projects						College	.73 🖺	IKIIS	
						2 LAKHS			

5. Research publications:

In International journals	Yes	^	No		Number	171
In National journals – refereed papers	Yes	✓	No		Number	101
In College journal	Yes	^	No		Number	05
Books	Yes	^	No		Number	18
Abstracts	Yes	^	No		Number	272
Any other (specify)	Yes		No		Number	
Mean Impact Factor of the research journals in which publications were made during the last 5 years 1.25						
Research Awards,		Numl	per of			
recognition, patents etc. during the last five years, if	Research awards: 04					
any (specify)	Patents: 07					
	Research centre: 12			2		
	(recognized by Anna					
		Unive	ersity)			

6.	Has the faculty presented research papers in academic forums	Yes 🗾	No □
	If yes, number of papers presented at		
	National seminars	5	38
	International seminars	3.	36
	Any other (specify)		

7	Average citation	index o	of publi	cation	of facult	ty	1.	25
8	Number of other extra curricular/co-curricular activities organized in collaboration with other agencies/NGOs (such as Rotary Lions etc.) on Campus							
9	Extension Centre: Yes No Year of Establish							1999
10	Number of regular extension programmes organized by NSS, NCC etc., (average of last five years) NCC 4							
11	Number of NCC casdets/Units	M	50	F	50		Units	2
12	Number of NSS Volunteers/Uni ts	M	163	F	116		Units	3
13	Number of faculty engaged in consultancy 48							
14	Consultancy earnings per annum (give average of last five years) 19.74							
15	Any other, Please specify 123 Lakhs							

(Testing\ Jobwork\ Non-Formal Continuing Education\ Vocational Training)

Criterion IV: Infrastructure and Learning Resources

4	\sim			
I	Campus	area	ın	acres

Built-up area in sq.mts./sq.ft.

34.50 61327

- * 1 sq.ft. = 0.093 sq.mt.
- 2 Working hours of the Library

On working days

On holidays

On Examination days

8.00 AM to 8.00 PM
10.00 AM to 5.00 PM
8.00 AM to 8.00 PM

3 Average number of faculty visiting the library/day

20 - 30

4 Average number of students visiting the library/day

170 - 180

5 Open access:

Yes	No	

- 6 Total Collections (Numbers)
 - a. Books
 - b. Text books
 - c. Reference books
 - d. Magazines
 - e. Current Journals

Indian Journals

Foreign Journals

- f. Peer Reviewed of Journals
- g. Back Volume of Journals

Titles	Volumes
4697	6490
12182	50911
2462	2731
50	

h. E-resources

CDs/DVDs

Database

CMIE Progress

Online Journals

IEL; ACM & ASME

Other AV resources

NPTEL Courses

i. Special collections

UNO Repository Centre
World Bank Repository

Materials acquired under special schemes

(IEEE, ACM, NBHM, DST etc.,)

Competitive examinations

YES

Book Bank

YES

Braille materials

Manuscripts

Any other (specify)

NPTEL

7 Number of books/journals/periodicals added during the last five years and their cost

Library Resources	The year befor	e last	The year b	efore	
	Number	Total Cost	Number	Total Cost	
		(Rs.)		(Rs.)	
Text books	2400	7,33,806	2160	6,89,991	
Reference s	309 (26)	2,57,823	283 (31)	3,09,996	
Journ/Periodic	268	3,13,444	280	9,65,000	
Any other, specify	Online journals: IEL, ACM & ASME Digital Libary				

8 Furnish the following details

Total carpet area of the Central
Library (in Sq.ft.)

Seating capacity of the Central
Library

220

Separate reading room facility for

- Students
- Staff

Number of departmental libraries

Yes	/	No	
Yes	5	No	
	17		

9 Is the Central Library automated?

If yes, is it

Yes

Partially Yes

No

<u> </u>			
	I		

10 Name the automation software used Percentage of annual allocation of funds

AUTOLIB	
1.05%	

11 Services/facilities in the library

Circulation of books and journal	/
Display of current events/information	
Bibliographic compilation	_
Reference	_
Reprography	_
Computer and Printing	<u> </u>
Internet	1
Digitalization	✓
Inter-library loan	1
Uninterrupted power supply/back up	✓
User orientation / information literacy	✓
Inflibnet / Delnet	1

	Any other. Please specify				
12	Are students allowed to retain books for Examinations?	Yes	^	No	
13	Furnish the information about the following library	service	es:		
	Average number of books issued/returned per day		55	5 – 60	
	Average number of users who visited/consulted per month		3800	0 – 4000	
	Ratio of library books to the number of students enrolled		14 /	student	
	Total number of days the library is kept open			345	
14	Total number of computer terminals		-	1750	
17	Number of Departments with computer		-	17	
	Budget allotment for computers during the		1.1	1 lakhs	
	Amount spent on maintenance and		20	lakhs	
	Type of Internet facility:				
	Dialup				
	Base line				
	Broadband				
	Any other (specify)		Leas	sed Line	
	Number of terminals with Internet facility available to students			850	
	Teachers			200	
	Non – Teaching Staff			100	

Yes

No

Institutional networking through Optical Fiber

connectivity

Wifi connectivity	Yes	_	No	
Any other (specify)				

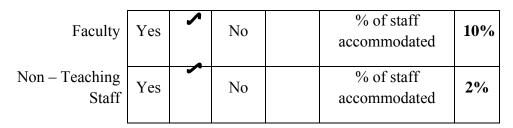
15 Is there a workshop / Instrumentation Centre?

Yes	^	No	Year of Establishment	1997

16 Is there a Health Centre?

Yes	✓	No	Year of Establishment	2000
-----	----------	----	--------------------------	------

17 Is there Residential accommodation provided for



18 Are there Hostels for students?

Yes	_	No	

If yes, number of students residing in hotels

1650	

Male	Yes	/	No	Number	800
Female	Yes	\	No	Number	850

19 Is there a provision for

(a) Sports fields

(b) Gymnasium

(c) Womens' rest rooms

(d) Transport

(e) Canteen / Cafeteria

Yes No	Number	19
	Yes No	1
Yes No	Number	03
	Yes No	
Yes No	Year of Establishment	1997

	(f) Students' centre	Yes	^	No		Es	Year o stablishr		1997
	(g) Media centre	Yes	~	No		Year of Establishment			2000
	(h) Telephone facility (Local/STD)	Yes	^	No		Es	Year o		1997
	(i) Generator / Electricity Backup	Yes	/	No		Year of Establishmer			1997
20	Is there provision for Audio Visual I	Equipn	nent/te	eaching	g aids:				
	LCD projectors	Yes		No		N	Number		58
	ОНР	Yes	^	No		Number			34
	Slide projectors	Yes		No	^	Number			-
	TV/VCP/Cable connection	Yes	<u> </u>	No		Number			1
	DVD players	Yes	/	No		N	Number		10
	•			1					
21	Does the institution make use of Edu	sat/V	sat f	acility		Yes	✓	No	
	Ţ	ı						T	
22	Is there provision for Indoor sports facilities	Yes		No			Year of ablishme	ent	1997
23	Any other (specify)								

5. Criterion V: Student Support and Progression

1. a Student Strength

(Provide information in the following format for the last 5 years)

2006-07

Student Enrolment		UG		PG			
	M	F	Т	M	F	Т	
No. of students from the same state where the college is located	1537	936	2473	408	241	649	
No. of students from other States	11	4	15	13	7	20	
No. of NRI students	-	-	-	-	-	-	
No. of overseas students	77	15	92	5	4	9	

2007-08

Student Enrolment		UG		PG			
	M	F	Т	M	F	Т	
No. of students from the same state where the college is located	1644	1041	2685	362	281	643	
No. of students from other States	13	3	16	11	3	14	
No. of NRI students	-	-	-	-	-	-	
No. of overseas students	112	18	130	8	4	12	

2008-09

Student		UG		PG			
Enrolment							
	M	F	T	M	F	T	
No. of students							
from the same state	1786	1222	3008	439	360	799	
where the college is							
located							
No. of students	15	5	20	3	1	4	
from other States							
No. of NRI students	-	-	-	-	-	-	
No. of overseas students	126	26	152	14	0	14	

2009-10

Student		UG		PG				
Enrolment								
	M	F	T	M	\mathbf{F}	T		
No. of students								
from the same state	4000		2898	515	• • •			
where the college is	1800	1098	2070		394	909		
located								
No. of students	16	5	21	4	1	5		
from other States								
No. of NRI students	-	-	-	-	-	-		
No. of overseas	124	21	145	20	4	24		
students								

2010-11

Student		UG		PG				
Enrolment								
	M	F	Т	M	F	T		
No. of students from the same state where the college is located	1871	1482	3353	382	315	697		
No. of students from other States	15	9	24	12	18	30		
No. of NRI students	-	-	-	-	-	-		
No. of overseas students	140	29	169	7	4	11		

M – Male, F-Female, T-Total

b. Dropout rate of UG and PG students of the last two batches

UG	PG
12	11

c. Dropout rate during the different years after admission

	UG									
1	2008	05								
2	2009	03								
3	2010	04								
	PO	G								
1	2009	05								
2	2010	06								

2 Student Freeships and scholarships:(last year' data)	Number	Amount (Rs.)
Endowments:		
Freeships:	144	53,60,000
Scholarships (Government)	1092	55,36,000
Scholarships (Institution)	236	12,79,000
Loan facilities	220	3.10 crores
Any other student financial support schemes (specify)		
3 Does the college obtain feedback from students on their campus experience? Is the feedback analyzed?	Yes	No

4 Major College cultural Events organized by the college during the last year

	(Organized	d	Participated			
	Yes	No	Number	Yes	No	Number	
Inter-collegiate	Yes		1	Yes		113	
Inter-university							
National	Yes		09	Yes		1960	
Any other (specify)							

5 Examination Results (data of past five years)

	UG						PG					M. Phil.			
Student	05-	06-	07-	08-	09-	05-	06-	07-	08-	09-	05-	06-	07-	08-	09-
Performance	06	07	08	09	10	06	07	08	09	10	06	07	08	09	10
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Pass Percentage	83	87	89	94	95	83	88	94	96	96					
Number of first classes	202	280	263	418	344	116	161	190	135	181					
Number of distinctions	157	140	196	303	389	42	77	96	64	89					

6 Number of students who have passed the following examinations during the last five years

NET	01	01			
SLET	03				
CAT	10	02	04	04	06
TOEFL	04	02	03	03	02
GRE					
G-MAT					
IAS					
Defense Entrance					
Other services	100	63	40	53	65
Any other (specify)					

7 Is there a student counseling centre?

Yes No	Year of Establishment	1997
--------	--------------------------	------

	Is there a Grievance Redressal Cell?	Yes	✓	No			ear of lishmen	t	1997
9	Does the college have an Alumni Association	Yes	✓	No			ear of lishmen	t	1997
10	Parent – Teacher Association	Yes		No	✓		ear of lishmen	t	
11	Students' Group Insurance Scheme	è				Yes	♪	No	
12	12 Number of students supported by college funds				374				
13	Complaints Cell for preventing sex	rual ha	rassn	nent of we	omen	Yes	/	No	
14	Number of students using the book	bank	facili	ty			20)0	
15	Number of students opting for furth	her stu	dies				10	⁰ / ₀	
16	Career counseling						Y	es	
17	Placement Cell						Y	es	
18	Single window admission for forei	gn stud	dents				N	0	
19	Any other (specify)								

Criterion VI: Governance and Leadership

1 a. Number of Teaching Staff	Permanent	M	155	F	129
	Temporary	M	-	F	-
b.Number of Non-Teaching Staff	Permanent	M	137	F	51
	Temporary	M	-	F	-
c. Number of Technical Assistants	Permanent	M	74	F	8
	Temporary	M	-	F	-
d. Technical / Non-Teaching staff ratio			1:	1:1	
2 Number of management appointees	Teaching Staff	M	153	F	129
	Non- Teaching Staff	M	137	F	51
	Technical Assistants	M	74	F	08
3 Percentage of posts filled under reserved categories:					
a. Teaching	SC/ST			19	
	OBC			19	0
	NT				
	General			75	5
	Any other (specify)				

b.	Non – Teaching	SC/ST OBC	27 188
		NT	
		General	55
		Any other	

4 Number of Professional development programmes 10 held for non-teaching

5 Financial resources for the college (approximate amounts) – Last year's data

Grant-in-aid 72.45 Lakhs
Fees
Donation

Self-funded courses – Fee

1995.68 Lakhs

Any other (specify)

6 Finance – last two years data

	Yea	nr
Expenditure (in percentages of the total annual budget)	Before last	Last year
	2008-09	2009-10
Spent on the salaries of faculty	33.96%	33.55%
Spent on the salaries of non-teaching employees	10.57%	10.65%
Spent on books and journals	0.92%	0.88%
Spent on Building development	24.32%	27.78%
Spent on maintenance, electricity, water, sports, examinations, hostels, student amenities, etc.,	10.04%	8.12%
Spent on academic activities of departments, laboratories, green house, animal house, etc.,	6.72%	6.09%
Spent on equipment, research, teaching aids, seminars, etc.,	11.65%	11.48%
Spent on contingency / miscellaneous expenditure	0.96%	1.98%

7 Number of meetings of Academic and Administrative Bodies:

Governing Body		One / Year
Internal Admin. Bodies (mention only three most important bodies)	1	Managing Council
	2	Finance Committee
	3	Planning & Evaluation
Any other (specify)		

8 Are there Welfare Schemes for the academic community (average of past 5 years)

Loan facility

Yes

No
Amount

Lakhs

Medical Group Insurance

Any other

9 Is there ICT – support for the following

Office	Yes	✓	No	
Student Admission	Yes	1	No	
Student Records	Yes	1	No	
Career Counseling	Yes	1	No	
Student Placement	Yes	^	No	
Aptitude Testing	Yes	^	No	
Examinations	Yes		No	•
Finance	Yes		No	>
Any other (specify)				

10

Criterion VII: Innovative Practices

1. Does the college have an Internal Quality mechanism	Yes	_	No				
2 Does the college have a centre for Wome Studies?	ens'	Yes		No	^		
If yes, provide the following details a	about the ac	ctivities o	f the ce	ntre			
(Average of last two years)							
Academic Programmes	Yes	No 🗸	Nu	mber			
Projects	Yes	No ,	Nu	mber			
Exchange (Visiting/training, national and international)	Yes	No •	Nu	mber			
Any other (specify)							
3 Do students participates in the quality E of the Institution	nhancemen	Yes Yes	✓	No			
4 What is the number and percentage of the students in the institution? (for the (current year)							
SC	Number 447	% 9.95					
ST	12	.26					
OBC	4006	89					
Women	1995	44					
Differently-abled	20	.44					
Rural	898	20					

12

.26

Tribal

5 . What is the average percentage of the following category of staff?

Category	Teaching	%	Non-Teaching	%
SC	18	6.3	27	10
ST	1	0.4	-	-
OBC	190	66.9	188	69.6
Women	129	45.4	59	21.9
Differently- abled	1	0.4	-	-
Rural	42	14.8	29	10.7
Tribal	-	-	-	-

6 What is the percentage incremental academic growth in terms of aggregate marks of the following category of students for the last two batches?

	At Adn	At Admission		n of the course
Category	Batch I (2010-2011)	Batch II (2010-2011)	Batch I	Batch II
SC	236.75	189.83	241.5	234.5
ST	152	167.75	152.9	167.5
OC+OBC	196.50+240.50	199+197.50	267.67	265.56
Women	238.50	199	268.8	265.56
Differently -abled	240.50	171	NA	NA
Rural	NA	NA	NA	NA
Tribal	NA	NA	NA	NA

7 Is there a mechanism for obtaining stakeholder perception about the institution?	Yes	>	No	
8 Has the institution kept a record of students shouldering social responsibilities in addition to their academic activities?	Yes	^	No	
9 Does the institution have a mechanism for analyzing student feedback on institutional performance, to arrive at student satisfaction Index? (Refer t the sample questionnaires annexed)	Yes	^	No	
10 Any other (specify)				

1.	Name of the Department	Mechanical Engineering			
2.	Year of Establishment		199′	7	
3.	Courses / Programmes and subject combinations offered	Programme Subject B.E – Physical Science			and s cience eering t
4.	Number of Teaching posts sanctioned and filled	30-33			
5.	Number of Administrative Staff		2		
6.	Number of Technical staff		24		
7.	Number of Students (Men/Women) Give details course – wise	Course B.E M.E		Men 439 64	Women 2 2
8.	Ratio of Teacher to Students (for sanctioned intake)	2.4.23	1:14		
9.	Ratio of to Teacher to Research Scholars		33:1	6	
10.	Number of research scholars who have obtained their master's degree from other institutions	11			
11.	Number of Teachers in academic bodies of other Autonomous Colleges and Universities	1			
12.	Latest revision of the curriculum (year)	2010			
13.	Number of students passed in NET/SLET etc. (last 5 years)	110			
14.	Success Rate of students		94%	ó	

15.	Demand Ratio (No. of seats: No. of application)	Students are admitted state level ranking by the Government of Tamil Nadu		
16.	Awards and recognition received by faculty (last 5 years)	 Dr.R.M.Arunachalam Fast Track proposal for YOUNG SCIENTISTS Dr.R.M.Arunachalam Career Award for Young Teachers 		
17.	Faculty who have attended Natl. Intl. Seminars (last 5 years)	89		
18.	Number of national/international seminars organized (last 5 years)	7		
19.	Number of teacher engaged in	No. of Teachers	Revenue generated	
	consultancy and the revenue generated	6	Rs.2.2 lakhs	
20	Number of Ongoing projects and their	Ongoing Projects	Total outlay	
20.	total outlay	1	Rs.10.5 lakhs	
21	Research projects completed during	Projects Completed	Total Outlay	
21.	last five years & their Outlay	4	Rs.36 lakhs	
22.	Number of inventions and patents	1		
23.	Number of Ph.D thesis guided during last five years	2		
24.	Publications by faculty (last 5 years)	141		
25.	Average citation index and impact factor of publications	2		
26.	Number of Books in the Department Library, if any	745		
27.	Number of Journals/Periodicals in the departmental library	36		
28.	Number of Computers	119		
29.	Annual Budget (excluding salary) (2009-2010)	119 Financial Year 2009 – 2010 : 45 lakhs		

1	Name of the Department	Electrical and l	Electronics Engineering	
2	Year of Establishment	1997		
3	Courses / Programmes and subject combinations offered	Programme B.E – Electrical and Electronics Engineering M.E – Power System Engineering M.E – Power Electronics and Drives	Subject Physical Science Humanity and Languages Mathematics Computer Science Basic Engineering Core Subject Theory Laboratory Projects Mathematics Core Subject Theory Laboratory Projects	
4	Number of Teaching posts sanctioned and filled	B.E (EEE) – Sanctioned : 24 Available : 27 M.E (PSE) - Sanctioned : 03 Available : 03 M.E (PED) - Sanctioned : 03 Available : 03		
5	Number of Administrative Staff		02	
6	Number of Technical Staff		31	
7	Number of Students (Men/Women) Give details course-wise	Course B.E (EEE) M.E (PSE) M.E(PED)	Boys Girls 207 223 20 16 17 19	
8	Ratio of Teacher to students	U.G – B.E(EEE) – 1:13 P.G – M.E(PSE) – 1:12		
9	Ratio of to Teachers to Research scholars	M.E(PED) - 1 : 12 (33 staff : 16Research scholars) 2.06 : 1		
10	Number of research scholars who have obtained their master's degree from other institutions	18		
11	Number of teachers in academic bodies of other Autonomous Colleges and Universities	30	Nil	

12	Latest revision of the curriculum (year)	U.G – B.E (EEE) – 2010 P.G – M.E (PSE) – 2010 M.E (PED) – 2010	P.G – M.E (PSE) – 2010			
13	Number of students passed in NET/SLET etc. (last 5 years)	01				
14	Success Rate of students	2009 Batch -97.70% 2010 Batch - 92.42%				
15	Demand Ratio (No. of seats : No. of applications)	Students are admitted under state by the Government of Tamilnadu				
16	Awards and recognition received by faculty (last 5 years)	Awards : 01 Recognition : 01				
17	Faculty who have Attended Natl./Intl. Seminars (last 5 years)	National 15	International 10			
18	Number of national/ international seminars organized (Last 5 years)	National 01	International 01			
19	Number of teachers engaged in consultancy and the revenue generated	06 38.5 L				
20	Number of Ongoing projects and their total outlay	10	91 Lacks			
21	Research projects completed during last five years & their Outlay	13	52.8 Lacks			
22	Number of inventions and patents					
23	Number of Ph. D theses guided during the last five years	Nil				
24	Publications by faculty (last 5 years)	53				
25	Average citation index and impact factor of publications	1				
26	Number of Books in the Departmental Library, if any	1191				
27	Number of Journals/Periodicals in the departmental library	25				
28	Number of Computers	132				
29	Annual -Budget (excluding salary) (2009-2010)	Financial Year 2009 – 2010	: 70 Lakhs			

1	Name of the	Electronics and Communication Engineering					
	Department						
2	Year of	1999					
	Establishment						
3	Courses / Programmes and subject combinations offered	Basic Engineering 1.Humanities and language 2.Physics Science 3.Mathematics 4.Computer Science 5.Engineering Graphics	Core Course ECE	Theory 29	Practical 15	Elective 5	Project 2 (Phase- 1 in VII- Sem & Phase 2 in VIII- Sem.)
4	Number of Teaching posts sanctioned and filled	B.E (ECE) – Sa	nctioned :	24 Avail	lable: 30		
5	Number of Administrative Staff			03			
6	Number of Technical Staff			19			
7	Number of Students (Men/Women) Give details course- wise	Course B.E (ECE) II year III year IV year TOTAL	67 79 95 (241)	78 79 4' (20	3 9 7		
8	Ratio of Teacher to students	U.G – B.E(ECE)) – 1:15				
9	Ratio of to Teachers to Research scholars	(30 staff : 15 Re	esearch sch	nolars) 2 :	1		

10	Number of research	
	scholars who have	
	obtained their	
	master's degree	17
	from other	
	institutions	
11	Number of teachers	
	in academic bodies	Nil
	of other	
	Autonomous	
	Colleges and	
	Universities	
12	Latest revision of	U.G – B.E (ECE) – 2010 Autonomous status
	the curriculum	
	(year)	
13	Number of students	
13		
	passed in NET/SLET etc.	Nil
	(last 5 years)	INII
	(last 5 years)	
14	Success Rate of	
	students	2009 2010 84% 97.22%
1.5		
15	Demand Ratio (No.	Students admitted under state level ranking by Government of Tamil Nadu.
	of seats : No. of	
	applications)	
16	Awards and	Awards producing cent Recognition
10	recognition	percent results in Anna
	received by faculty	University examinations
	(last 5 years)	
	(idst 5 years)	

2006-2007— 03	Prof.B.Gopi
2007-2008— 22 2008-2009— 44	• "I – Fuel Indicator" Renesas Microcontroller Project Contest
2009-2010— 05	Dr.R.S.Sabeenian
2009-2010— 03	"Best Faculty Award" for the Academic year 2009-2010 in the ECE/EEE Stream from the Nehru Group of Institutions
	Best innovative project award for "Weed Detection using Multi-Resolution Analysis" from Indian National Academy of Engg, New Delhi.
	"Best Paper Award" for the following research papers in the year 2010
	"Hand written Text to Digital Text Conversion uses Radon Transform and Back Propagation Network (RTBPN)" in the Springer LNCS, during the International Conference on Advances in Information and Communication Technologies ICT 2010 held on September 2010 at Cochin
	"Multi Resolution Adaptive Video Streaming using Scalable Video Coding" in the IEEE Explorer, during the International Conference on Advances in Communication, Network and Computing CNC 2010 on October 2010 at Calicut
	Awarded the Best R& D activity award from the year 2006 to 2008
	Prof.D.Jayanthi
	ISTE-NIT Kozhikode National Award 2007 for Best B.Tech. Project"Alcohol Carbon Mono- Oxide Monitoring Equipment"

17	Faculty who have	National	Interna	ational
	Attended Natl./Intl.	12	-	-
	Seminars (last 5			
	years)			
18	Number of	National	Interna	
	national/	47	N	ïl
	international			
	seminars organized			
	(Last 5 years)			
19	Number of teachers			
	engaged in		Nil	
	consultancy and the			
20	Number of	SONA SIPRO	5 Nos	
	Ongoing projects			
	and their total			
	outlay			
21	Research projects	SONA SIPRO	Ongoing	
	completed during			
	last five years &			
	their Outlay			
22	Number of	Patent 1 (Applied)		
	inventions and			
	patents			
23	Number of Ph. D		Nil	
	theses guided			
	during the last five			
	years			
24	Publications by	National	Interna	
	faculty (last 5	29	3	9
	years)			
25	Average citation	Citation index	Impact	factor
	index and impact	13	0.7	65
	factor of			
	publications			

26	Number of Books	
	in the Departmental	2140 Nos.
	Library, if any	
27	Number of	5.37
	Journals/Periodicals	5 Nos
	in the departmental	
	library	
28	Number of	158 Nos.
	Computers	
29	Annual Budget -	
	(excluding salary)	Financial Year 2009 – 2010: 47 Lakhs
	(2009-2010)	

Name of the Department	Computer Science and Engineering				
2. Year of Establishment	1997				
	B.E(Computer Science and Engineering)				
3. Courses / Programmes and subject combinations offered	M.E(Computer Science and	d Engineering)			
	M.E(Software Engineering	g)			
	B.E(CSE) - Sanctioned : 2	4 Filled: 28			
4. Number of Teaching posts sanctioned and filled	M.E(CSE) - Sanctioned : 3	Filled: 3			
	M.E(SE) - Sanctioned : 3	Filled: 3			
5. Number of Administrative Staff	()2			
6. Number of Technical Staff	1	10			
	Course	Boys	Girls		
7. Number of Students (Men/Women)	B.E(CSE)	166	252		
Give details course-wise	M.E(CSE)	15	21		
	M.E(SE)	11	25		
8. Ratio of Teacher to students		- 1:15			
9. Ratio of to Teachers to Research		- 1:12 -:1			
scholars	J	.1			
10. Number of research scholars who have obtained their master's degree from other institutions		4			
11. Number of teachers in academic bodies of other Autonomous Colleges and Universities		1			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UG – BE(C	CSE) – 2008			
12. Latest revision of the curriculum (year)	PG – ME(CSE) – 2007				
(your)	PG – ME(SE) – 2007				
13. Number of students passed in	NE	T:2			
NET/SLET etc. (last 5 years)	GATE : 20				

	2002-2006 = 90).47%	
	2003–2007 = 95.95%		
14. Success Rate of students	2004-2008 = 95.37%		
	2005-2009 = 95	.52%	
	2006-2010 = 96	.96%	
15. Demand Ratio (No. of seats : No. of applications)	120 : 120		
	Number of Awards for Academi year : 25.	c excellence every	
16 Avverds and reasonition reseived	Research awards: 4		
16. Awards and recognition received by faculty (last 5 years)	Number of Faculty members rec who in the world': 2	ognized for 'Who's	
	Cambridge Who's who 2010 : 1		
17. Faculty who have Attended	National	International	
Natl./Intl. Seminars (last 5 years)	69	10	
18. Number of national/ international seminars organized (Last 5 years)	17	-	
19. Number of teachers engaged in consultancy and the revenue generated	10 (24.312 lak	ths)	
20. Number of Ongoing projects and their total outlay	4 (4 lakhs))	
21. Research projects completed during last five years & their Outlay	8 (8 lakhs)		
22. Number of inventions and patents	nts		
23. Number of Ph. D theses guided during the last five years	6 (Guiding)		
24. Publications by faculty (last 5 years)	20		

	Name of the Staff	Title/Journal	Impact factor
25. Average citation index and impact factor of publications		International Journal of Business Information Systems	0.8
		Journal of Computer Society of India	-
	Dr.M.Usha	Asian Journal of Information Technology	-
		International Journal of Computer Science and System Biology	-
		WSEAS Transactions on Information Science and Applications	0.1
	Dr.	Journal of Current Science	0.2
	B.Sathiyabhama	International Journal of Computational Intelligence and Healthcare Informatics	-
		IJCSES International Journal of Computer Sciences and Engineering System	-
26. Number of Books in the Departmental Library, if any		3117	
27. Number of Journals/Periodicals in the departmental library		32	
28. Number of Computers		248 (64.9 Lakl	hs)
29. Annual Budget 2010 – 2011 (excluding salary)		Financial Year 2009 62 lakh	- 2010 :

1. Name of the Department	Information Technology			
2. Year of Establishment	1998			
	B. Tech/ Information Technology			
	Humanities and Language: 1			
	Science		: 1	
3. Courses / Programmes and subject combinations offered	Mather	natics	: 3	
	Core F	Engineerin	g Technology	
	Theory		: 23	
	Electiv	e	: 5	
	Labora	tory	: 13	
	Project		: 1	
4. Number of Teaching posts sanctioned and filled	Sanctioned: 24; Filled: 26			
5. Number of Administrative Staff	9			
6. Number of Technical Staff	15			
	Year	Men	Women	
	IV	78	61	
	III	66	81	
7. Number of Students (Men/Women) Give details course-wise	II	58	86	
	Total	202	228	
8. Ratio of Teacher to students	1: 14			
9. Ratio of to Teachers to Research	(Staff-26: Research scholars: 15) 1.75: 1			
scholars				

10. Number of research scholars who have obtained their master's degree from other institutions	11
11. Number of teachers in academic bodies of other Autonomous Colleges and Universities	Nil
12. Latest revision of the curriculum (year)	2010
13. Number of students passed in NET/SLET/GATE etc. (last 5 years)	Nil
14. Success Rate of students	94.12% (Last 2 years)
15. Demand Ratio (No. of seats : No. of applications)	Students admitted under State Level ranking by Government of Tamilnadu
16. Awards and recognition received by faculty (last 5 years)	Recognition: 7 Staff Award: 224
17. Faculty who have Attended Natl./Intl. Seminars (last 5 years)	National Seminar attended : 59 International Seminar attended : Nil
18. Number of national/international seminars organized (Last 5 years)	National Seminar organized: 23
19. Number of teachers engaged in consultancy and the revenue generated	Staff Engaged: 1 No. of Consultancy: 16 Revenue generated: Rs. 4,80,374/-
20. Number of Ongoing projects and their total outlay	Ongoing Projects: 3 Total outlay: Rs. 15,00,000/-
21. Research projects completed during last five years & their Outlay	Completed Projects: 9 Total outlay: Rs. 1,64,160/-
22. Number of inventions and patents	1 (In progress)
23. Number of Ph. D theses guided during the last five years	Nil

	Journal Publications : 22 Paper publication in		
24. Publications by faculty (last 5 years)	National : 37		
	Paper publication in International : 30		
25. Average citation index and impact	Average Citation index: Nil		
factor of publications	Impact factor of publication : 0.8		
26. Number of Books in the Departmental	626		
Library, if any			
27. Number of Journals/Periodicals in the	Journals : National - 18		
departmental library	International - 36		
28. Number of Computers	350 computers		
29. Annual Budget (excluding salary) (2009-10)	Financial Year 2009 – 2010 :54 lakhs		

1.	Name of the Department	Civil Engi	neering	
2.	Year of Establishment	2003		
3.	Courses / Programmes and subject combinations offered	B.E – Civil		
4.	Number of Teaching posts sanctioned and filled	16 - 18		
5.	Number of Administrative Staff	3		
6.	Number of Technical staff	11		
7.	Number of Students (Men/Women) Give	Course	Men	Women
/.	details course – wise	B.E	261	147
8.	Ratio of Teacher to Students	1:13	-1	
9.	Ratio of to Teacher to Research Scholars	11:7		
10.	Number of research scholars who have obtained their master's degree from other institutions	7		
11.	Number of Teachers in academic bodies of other Autonomous Colleges and Universities	1		
12.	Latest revision of the curriculum (year)	2008		
13.	Number of students passed in NET/SLET/GATE etc. (last 5 years)	20		
	Success Ratio of students			
14.	2005 – 2009 Batch	89 %		
	2006 – 2010 Batch	93%		
15.	Demand Ratio (No. of seats: No. of application)	-		
16.	Awards and recognition received by faculty (last 5 years)	-		
17.	Faculty who have attended Natl. Intl. Seminars (last 5 years)	20		
18.	Number of national/international seminars organized (last 5 years)	2		
19.	Number of teacher engaged in consultancy and the revenue generated	5 / 25 Lakh	S	

20.	Number of Ongoing projects and their total outlay	1
21.	Research projects completed during last five years & their Outlay	-
22.	Number of inventions and patents	-
23.	Number of Ph.D thesis guided during last five years	-
24.	Publications by faculty (last 5 years)	13
25.	Average citation index and impact factor of publications	-
26.	Number of Books in the Department Library, if any	584
27.	Number of Journals/Periodicals in the departmental library	14
28.	Number of Computers	30
29.	Annual Budget (excluding salary) (2009-10)	Financial Year 2009 – 2010 : 36 Lakhs

C. Profile of the Fashion Technology Department

1.	Name of the Department	Fashion Technology			
2.	Year of Establishment	2005			
3.	Courses / Programmes and subject combinations offered			y)	
4.	Number of Teaching posts	• Project Work : 1 Sanctioned: 12			
4.	sanctioned and filled	Filled: 12			
5.	Number of Administrative Staff	1			
6.	Number of Technical Staff	3			
7.	Number of Students (Men/Women)	Year	M	W	Total
	Give details course-wise	Final Year	26	38	64
		Third Year	30	38	68
		Second Year	31	36	67
		First Year	20	37	57
		Total	107	149	256
8.	Ratio of Teacher to students	Sanctioned student intake: 60 No. of Staff: 12 Teacher Student ra sanctioned intake)	tio 1:1	5 (for	
9.	Ratio of Teachers to Research scholars	12:5			
10.	Number of research scholars who have obtained their master's degree from other institutions	5			
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	1			
12.	Latest revision of the curriculum (year)	2010			
13.	Number of students who have passed NET/SLET, etc. (last 5 years)	NIL			

14.	Success Rate of students:	2005-2009 Batch: 57/61 or 93.44% 2006-2010 Batch: 64/65 or 98.46%		
15.	Demand Ratio (No. of seats : No. of applications)	Students are admitted under state-level ranking by Tamilnadu Government		
16.	Awards and recognition received by faculty (last 5 years)	 All the faculty have received at least two awards each per semester during the past five years for excellent (95-100%) academic results. At least 4-5 staff members of the department have received awards during the past five for their special contribution to the college. 		
17.	Faculty who have Attended Natl./Intl. Seminars (last 5 years)	All the faculty have attended one of 15 national and 2 seminars/conferences from 2006 to 2	1 international	
18.	Number of national / international seminars organized (Last 5 years)	4 (National Seminar-1) Nationalconference-3	-	
19.	Number of teachers engaged in consultancy and the revenue	Consultancy	Revenue Generation	
	generated (last five years)	5 Rs. 5,40,000		
20.	Number of Ongoing projects and their total outlay	9 projects: Rs. 6,42,5	60/-	
21.	Research projects completed during last five years and their Outlay	1 project	Rs 35,000	
22.	Number of inventions and patents	Inventions	Patents	
		One (weaving)	2 (patents applied for)	
23.	Number of PhD theses guided during the last five years	NIL		
24.	Publications by faculty (last 5 years)	43		
25.	Average citation index and impact factor of publications	Indian Journal of Fibre and T (Impact factor: 0.3		
26.	Number of Books in the Departmental Library, if any	` •		
27.	Number of Journals/Periodicals in the departmental library	12		
28.	Number of Computers	41		
29.	Annual Budget (excluding salary) (2009-2010)	Financial Year 2009 – 2010	: 20 Lakhs	

1	Name of the Department	General Engineering (Mathematics, Science & Humanities of Language)			
				guage)	
2.	Year of Establishment	1997			
3.	Courses/Programmes and subject		_		
	combinations offered				
4	Number of Teaching posts sanctioned and	Sanctioned: 52, Filled: 57		57	
	filled		, 1 1110		
5.	Number of Administrative staff		10		
6.	Number of Technical Staff		10		
7.	Number of Students(Men / women) Give	Male – 490, fema	ale – 402 (I Y	ear B.E /	
	details course-wise	В	Tech)		
8.	Ratio of Teacher to Students	5	7:892		
9.	Ratio of Teachers to Research Scholars		6:24		
10.	Number of research scholars who have				
	obtained their master's degree from other		24		
	institutions				
11.	Number of teachers in academic bodies of				
	other Autonomous College and		Nil		
	Universities				
12.	Latest revision of the curriculum (year)		2010		
13.	Number of Students passed in NET/SLET		NIA		
	etc. (Last 5 Years)		NA		
14.		Year	Semester I	Semester	
	Success Rate of Students			II	
		2008-2009	85.66 %	97.02 %	
15.	D ID C OY OG ANY O	2009-2010 Students Admitted	78.2 % Under State	77 % Level	
	Demand Ratio (No. of Seats : No. of	Ranking By The C			
	Applications)	Nadu			
16.	Awards and recognition received by				
	faculty (last 5 years)				

17.	Faculty who have attended National. /	100
	international seminars (last 5 years)	100
18.	Number of national / international	10
	seminars organized (Last 5 Years)	18
19.	Number of Teachers engaged in	
	consultancy and the revenue generated	10 (66 lak)
	(last 5 years)	
20.	Number of Ongoing projects and their	15 (90 lak)
	total outlay	13 (50 lak)
21	Research projects completed during last	2 (15 lak)
	five years & their outlay	2 (13 tak)
22	Number of inventions and patents	2
23	Number of Ph.D thesis guided during the	4
	last five years	Ť
24	Publications by faculty (last 5 years)	194
25	Average citation index and impact factor	2.53
	of publications	2.33
26	Number of books in the Departmental	878
	Library, if any	070
27	Number of Journals/ periodicals in the	8
	department library	O
28	Number of Computers	185
	Annual Budget (Excluding salary)	
29	(2009-10)	Financial Year 2009 – 2010 : 13 lakhs
	I.	1

Name of the Department	Master of Business Administration		
2. Year of Establishment	1998		
3. Courses / Programmes and subject combinations offered	Core Subject – 17 nos.		
	Elective – 8 nos.		
	Project Work – 2 nos.		
4. Number of Teaching posts sanctioned and filled	Sanctioned – 21		
	Filled – 23		
5. Number of Administrative Staff	4 nos.		
6. Number of Technical Staff	2 nos.		
7. Number of Students (Men/Women) Give details course-wise	I yr – Men - 93		
	Total – 168 Total - 127		
8. Ratio of Teacher to students	1:12.18		
9. Ratio of to Teachers to Research scholars	1:0.4		
10. Number of research scholars who have obtained their master's degree from other institutions	8		
11. Number of teachers in academic bodies of	1 – Governing Body members, Salem		
other Autonomous Colleges and Universities	Productivity Council		
12. Latest revision of the curriculum (year)	2009 (Anna University of Technology, CBE)		
	2010 (Autonomous)		
13. Number of students passed in NET/SLET etc. (last 5 years)	-		
14. Success Rate of students	2007-2009 - 97.41%		
	2008-2010 – 98.35%		
15. Demand Ratio (No. of seats : No. of applications)	Students are selected by State level ranking as per Government of Tamilnadu		

16. Awards and recognition received by faculty (last 5 years)	Book Publication(International) – 1 faculty		
	Book Publication (National) - faculty members		
	5 faculty members published articles in International Journals.		
	17 faculty meml articles in Nationa	pers published 76 l Journals.	
	J	nembers visited ersity of Thailand,	
	8 faculty membe training and consu	rs are involved in ltancy work.	
17. Faculty who have Attended Natl./Intl.	National	International	
Seminars (last 5 years)	33	21	
18. Number of national/international seminars	National	International	
organized (Last 5 years)	3 nos.	_	
19. Number of teachers engaged in consultancy and the revenue generated	8 nos.	Rs. 52,87,100	
20. Number of Ongoing projects and their total outlay	1	Rs. 14,40,000	
21. Research projects completed during last five years & their Outlay	1	Rs. 30,921	
22. Number of inventions and patents	1 no.	Patent Filed	
23. Number of Ph. D theses guided during the	6 faculty members	are pursuing Ph.D	
24. Publications by faculty (last 5 years)	91 nos.		
25. Average citation index and impact factor of publications	-		
26. Number of Books in the Departmental	4644 Titles		
Library, if any	11847 Volumes +		
	500 Volumes available in Director's Cabin		
27. Number of Journals/Periodicals in the departmental library	85		
28. Number of Computers	128		
29. Annual Budget (excluding salary) (2009-2010)		: 2009 – 2010 : Lakhs	

1.	Name of the Department	Mast	Master of Computer Applications			
2.	Year of Establishment	2000				
3.	Courses / Programmes and subject combinations offered	Course: Master of Computer Applications Subject Combinations Offered: i) Core Curriculum • Theory:20 • Elective:3 • Laboratory:14 • Project Work:1 ii) Humanities and Sciences • Theory:1 iii) Business Administration • Theory:1			ed: 4 ::1 nces tion	
4.	Number of Teaching posts sanctioned			+ 1 Directo		
	and filled	Filled	: 24	+ 1 Directo	PΓ	
5.	Number of Administrative Staff			02		
6.	Number of Technical Staff			04		
7.	7. Number of Students (Men/Women) Give details course-wise	Yea r I	Men 69 65	Women 49 55	118 120	
		Tot al	62 196	54 158	354	
8.	Ratio of Teacher to students	F		lent Ratio -1 ioned intake		
9.	Ratio of to Teachers to Research scholars	2:13	3 (2 staff : 1	13 Research	scholars)	
10.	Number of research scholars who have obtained their master's degree from other institutions	11				
11.	Number of teachers in academic bodies of other Autonomous Colleges and Universities	02				
12.	Latest revision of the curriculum (year)	2010				
13.	Number of students passed in NET/SLET etc. (last 5 years)	01				
14.	Success Rate of students			100%		
15.	Demand Ratio (No. of seats : No. of applications)	Students are admitted under state-level ranking by Tamilnadu Government.				

16.	Awards and recognition received by faculty (last 5 years)	received 100% produced in Examinations Management. • Department st awards for the	the Faculty members and 95% above result the Anna University given by the aff members received in contributions
17.	Faculty who have Attended Natl./Intl. Seminars (last 5 years)	National 18	International 5
18.	Number of national/ international seminars organized (Last 5 years)	National 11	International Nil
19.	Number of teachers engaged in consultancy and the revenue generated	Teachers 3	Revenue 26,33,000
20.	Number of Ongoing projects and their total outlay	Ongoing Projects 4	Outlay 6 Lakhs
21.	Research projects completed during last five years & their Outlay	Projects 1	Outlay 23,458
22.	Number of inventions and patents	Number of Invention - 01 (copyright received, applied for patent)	
23.	Number of Ph. D theses guided during the last five years	Nil	
24.	Publications by faculty (last 5 years)	 Journal Publication: 22 National Conference Publications: 58 International Conference Publications: 20 	
25.	Average citation index and impact factor of publications	1.70	
26.	Number of Books in the Departmental Library, if any	8974	
27.	Number of Journals/Periodicals in the departmental library	National 24	International 24
28.	Number of Computers	184	
29.	Annual Budget (excluding salary) (2009-2010)	Financial Year 2009 – 2010 : 30 Lakhs	

PART -II: The Evaluative Report

A. Executive Summary

Sona College of Technology is one of the most renowned and fastest growing Engineering Institutions in South India. The college has a visionary Management, a team of dedicated, experienced and well equipped staff, world class infrastructure and an amazing ambience conducive for learning. No wonder Sona is rated high by reputed organizations and magazines like competition success Review, Outlook, Electronics for you, Dalal Street, Career 360 etc. It stands within the top 10 institutions in Tamilnadu and 20 in India.

Career Aspects

The vision of Sona College of Technology is to become a model institute of excellence in technical education pertaining to Science, Technology and Management Studies by offering a full range of programmes with a global focus striking a balance between academic, social, economical and ethical goals of our Management, faculty and students.

The mission of Sona College of Technology is to be a vibrant and model institution of excellence in imparting quality education in the areas of Science, Engineering, Technology and Management and also to orient the aspiring students and scholars towards imbibing the virtues for an overall development to enable them to meet the ever-growing challenges of the global society.

The goals and objectives of Sona College of Technology which are set in alignment with the vision and mission of the college aim at contributing to the academic standing and overall knowledge development of the students. By maintaining state-of-the-art infrastructure and learning environment, the college promotes research and knowledge development programmes, collaborates with institutions and industries, inculcates moral, ethical and environment values among students and staff and disseminates technical knowledge in the region by continuing education programmes.

Following the Autonomous status conferment from 2010-2011 for 5 years by Anna University of Technology, Coimbatore, the Academic Council and Board of Studies have been constituted. The Board of Studies involves the participation from Industry and academics to ensure that the education offered caters to the industrial requirements. New courses and programmes are introduced based on global trends and requirements. In all the branches, around 60-65% the courses are practical oriented. The industrial training, project interuship and industrial visits at reputed organizations strengthen their capability to work in real time industry environment. All Engineering Programmes have included atleast one programming language course with the degree of imparting knowledge ranging from basic awareness to highly technical course in computer applications.

In addition to the technical skills, courses to develop a students' over all personality are also offered. To promote good civic sense and healthy mind, students are encouraged to indulge in social welfare activities through NSS, NCC, YRC, etc. Courses on yoga, meditation, personality development, professional ethics and cultural education are imparted to students sensitive and responsive to our societal value system.

Aiming to become a world class institution, Sona has arranged twining programmes with foreign universities like Syracase University, USA and Wazne State University, USA, for MS. Programmes and research collaborations.

The performance of the students is assessed by weekly tests and model examinations through which both the slow learners and advanced learners are identified. To improve the performance of slow learners, periodic monitoring, regular counseling and additional practices in examination-centered tests are given. The performances of the words are brought to the notice of the parents through proper communication system and parents' meetings are conducted to discuss them. In addition to the input for academic performances, training programmes to improve the student's skills in Group Discussion, Aptitude and interview are ogranised to enhance the scope for students' placement. Experts from academics and corporate world and entrepreneurs are invited to deliver special lectures and technical talks.

Teaching – Learning Evaluation

A conducive learning environment is created by providing both slow and advanced learners with relevant exposure and experience which help them overcome learning challenges. At the tutorial classes, more attention is paid towards slow learners and through peer-coaching, they get a clearer understanding of complex concepts they could not learn well in class.

All the students are guided and couselled by class counselors, who act as chief mentors of the class. Besides this, about 20 students are attached to a Faculty

Advisor. It is with their academic and personal guidance that the students find their stay on the campus a comfortable one.

The teaching-learning process is made interesting by the use of appropriate teaching aids like OHP and VHP. The computer-Based Teaching / Training packages used for most of the UG Programme courses ensure better understanding of the concepts among the students. The students are exposed to excellent learning environment through the EDUSAT, connected with IIT, Bombay Indo-US Webcast / Webinar in collaboration with Infosys, Amrita's A-VIEW (Virtual Interactive E-Learning World) facility video lecture tapes / CDS/ DVDs etc. These facilities in addition to the central and department library enable the students to learn through topics of emerging importance under 'beyond the syllabus' category. Guest lectures, seminars and workshops by invited industry experts and inter-college student symposia are organized to expand the scope for learning.

Understanding the importance of upgrading and equipping the faculty members with the knowledge about the latest advancements in the subjects they handle, the college supports the staff financially to participate in a good number of AICTE / Anna University sponsored staff development programmes. Owing to the encouragement by the Management, the staff makes full use of these opportunities for career growth.

Sona's library, which is the main source of attraction, is the back bone of its knowledge pool. The library has a vast collection of learning and reference resources that meet the needs of all the departments in the college.

S. No.	Resource	No. of Titles	No. of Volumes
1	Textbooks	12.182	50,911
2	General Books	4697	6490
3	Reference Books	2462	2731
4	International Journals	110	Total no. of back volumes - 1983
5	National Journals	128	
6	General Magazines	50	-
7	CDs / DVDs	2255	-
8	Databases CMIE – "Prowess"		
9	Online Journals – IEL, ACM, ASME		
10	AV Resources – NPTEL video lectures		

Research, Consultancy and Extension

Technical education should ultimately aim at research and innovations. Aspiring to become a world class technical institute, Sona encourages both its staff and students who have deep interest in research to indulge in R&D activities. The fact that the college has an advanced R&D centre housing 32 research centres which was inaugurated by Dr. A.P.J. Abdul Kalam stands testimony to the importance given to research activities.

Faculty doing research are provided with required equipment, seed money, software, books and journals. Good quantum of financial assistance is made available for paper presentation and travel expenses. The revenues generated through external grants, research and consultancy is 199.53 lakhs. Sona of the products developed by the college are used in space science, satellite communications, undersea applications and measurement applications by ISRO and other industries. The college offers gemine and relevant technical services for the rural development purposes.

Sona has to its credit 538 National Conferences, 336 International Conferences and 272 International and National Journal publications by its faculty members. There are currently 25 university recognized research supervisors/ guides for Ph.D in various specializations of Engineering, Science, Humanities, Computer Applications and Management. Presently there are 113 research scholars pursuing Ph.D in the college.

There is a good amount of contribution from the students' side for research promotion. They have presented and published member of papers in National and International Conferences and journals respectively and won many accolades. Some of the major research facilities provided for both staff and students include

- (i) Language lab
- (ii) High Voltage Test and Measuring Equipment
- (iii) Free Open Source Software facility
- (iv) IBM Centre for Excellence
- (v) High Energy Ball Mill
- (vi) Metallurgical Microscope with image processing
- (vii) Thermal Evaporation Vacuum Coating Unit
- (viii) Spin coater
- (ix) Adobe Bundle, Oracle database, Visual Prolog, SPSS, Apple MAC
- (x) 5 Million Spartan FPGA Kits
- (xi) XILINX, MATLAB, MULTSIM
- (xii) Antennae Kit Set, Video Fiber Link

Since Sona believers in collaborative research activities it has signed MoUs with renowned Indian and Foreign Universities, industries and MNCs. The college also organizes faculty training facility at industries, visits by industrialists to institution, students visit to industries, joint product development, joint academic programmes with foreign universities, to mention a few.

The research collaborations are already on with University of Bologna, Italy and University of Nebraska, USA. The CSE Department is working in collaboration with Syracuse University, New York, USA to offer an ME (Twinning) programme. Similar proposal is in process with Wayne State University, Michigan, USA.

The following are few of the major and minor projects ongoing in the college:

- (i) Radio wave propagation under rain and water droplets interference.
- (ii) Brushless DC Motor design and development for ISRO.
- (iii) Under-water High-Speed Brushless DC Motor design and development for National Institute of Ocean Technology.
- (iv) CT Caliber for measurement for Megawin Switchgear Pvt Ltd:
- (v) High Voltage Leakage and Insulation characterization in presence of impurity deposits on wires.
- (vi) Nano Technology and nano-materials.
- (vii) Photonics and Nano Technology for Transistors

All the quality research works by the college are well supported and funded by AICTE, DST, ISRO, CSIR, TNSCST, CCSTDS, IEEE, AU and IGCAK.

Infrastructure and Learning Resources

Sona has well structured maintained infrastructure facilities which include

- Bright and airy classroom.
- State –of-the art laboratories.

- Industry standard training centers
- Well stacked library.
- Sophisticated computer centers
- Homely hostel facilities
- Multimedia language laboratory.
- Advanced R&D Centers
- Continuing Education centre and so on

The master plan of the college campus indicating the existing buildings and the projected expansion in the future is enclosed. Apart from the academic facilities, the college also has common room, wash/ rest room etc and special facilities are provided for differently abled students.

Sona has abundant learning resources in terms of laboratory and library facilities. Each Engineering lab is equipped with advanced machineries and equipment. The college has excellent computing facilities. Totally, there are 1750 computers on the campus. The computers have 8 Mbps leased line internet bandwidth which is made available to the staff free of cost for carrying out any academic related works.

Student support and progression

With an initial intake of 160 in 1997, the college has grown up to 4490 as its present strength. There are 200 students from 54 nations across the world. The pass percentage of students in university examinations ranges from 85 to 95%. During the past 5 years, the students have secured 97 ranks which include 9 gold medalists. Apart from the teaching and training for better performance in academics, the students are also trained for getting placed in companies. Training Programmes are arranged through leading companies like Infosys, Cognizant, WIPRO through which the students are updated on the industrial expectations to increase the students' employability skills. An exclusive department for training takes care of the placement training needs of the students. During the last 5 years, an average of 70-75% of the students has got placed on campus.

The college supports the students with financial aid by way of scholarships. Following are the schemes by which the students are supported financially. 10% of the admitted B.E and B.Tech degree students are getting Full Tuition Fee Waiver as per AICTE guidelines.

All the first graduates are getting 50% Tuition Fee Waiver from Government of Tamilnadu. All the BC, MBC, SC, ST students are getting Government scholarships.

Apart from Government sources, the management sanction annually,

Rs. 5.0 lakh for merit-cum-means category

- Benefits 85 students last year

Rs. 5.0 lakh for sports category

- Benefits 104 students last year

Rs. 1.0 lakh for physically-challenged and wards of ex-service man

- Benefits 20 students last year

Rs. 0.5 lakh for NSS, NCC and YRC category

- Benefits 13 students last year

Rs. 2.0 lakh for students lost their parents category

- Benefits 9 students last year

Rs. 8.0 lakh for best performance in University Examinations

- Benefits 324 students last year

The college takes care of the welfare of all the students including overseas, NRI, differently abled and SC/ST students. Apart from the financial support, they are given counseling by the faculty members to ensure quality living and education at Sona.

Governance and Leadership

The Secretary is responsible for framing policies, creating infrastructure and administering and steering the organization towards growth. Sona has a functional organizational structure. The Principal is the Head of the Institution. He executes objectives of the Governing Body liaisons with DOTE/AICTE/University/UGC etc., ensures infrastructure and other mandatory resource requirements and monitors academic, co-curricular and extra-curricular activities. Also, he suggests new courses, ensures discipline in the college, motivates staff in realizing objectives, allocates budgets for the departmental activities, conducts periodic review meetings with HODs, encourages staff and students to promote research activities and continuing education programmes. The major activities by the departments are carried out with the approval of the Principal. Thus, all the

approval letters should bear the signature of the HOD concerned and the Principal.

This helps in establishing the leadership system.

"Principal" is the Head of the Institution. He performs the following activities:

- Executes objectives of the governing body
- Liaisons with DOTE/AICTE/University/UGC, etc.
- Ensures infrastructure and other mandatory resource requirements
- Suggests new courses that may be implemented
- Monitors academic activities
- Monitors co-curricular and extracurricular activities
- Ensures discipline in the college.
- Motivates Staff in realizing Objectives
- Ensures Budgetary allocation for the department activities
- Conducts periodic review meetings with HODs
- Ensure research activities among the students and staff
- Ensures other continuing education and other activities related to social activities

Major activities carried out by the departments shall be done with the approval of the Principal. All Approval letters should bear the signature of the concerned Head of the department, and the Principal. This way, the leadership system is established.

To translate quality to the functioning of its various administrative and academic units "Quality Objectives" consistent with the quality policy are formulated in measurable terms in different functional areas at both the college-level and department-level.

The Heads of the Departments and section-in-charges ensure that the objectives are achieved within the stipulated time interval. The status of attainment of Quality objectives are reviewed and if necessary revised during "Management Review Committee" (MRC) meetings conducted as part of "ISO - Quality Management System" (QMS) requirements.

- Department level decisions are taken by the Heads of the Department in consultation with the teaching faculty.
- Any major decisions pertaining to the departments are finalized by the Heads of the Departments with the approval of the Principal and the Secretary.
- HODs and Senior faculty are members of the various committees
 constituted for the effective functioning of the institution like advisory
 council, academic council, Board of Studies, Planning and Evaluation
 committee, etc., and their opinions are sought before any major policy
 decisions are finalized.

Every department acts as an autonomous unit, with the Heads of the Departments being delegated powers to take decisions related to their department. This makes them separate 'Strategic Business Units' (SBUs), and so ensures quick decision making and efficient functioning. The HODs shall be solely responsible for the performance of the department in academic and other activities.

Employees are motivated for their contribution, as under:

- Giving increment for upgrading Qualification (either in the month of June or December every year, based on the date of joining)
- Giving financial support for Presenting / Publishing papers in National /
 International Conferences / Journals
- Giving incentive for Involving in R & D work and Patenting or Commercialization
- Giving incentive for involving in the Industry-Institute Interaction activities of the College and Department
- Giving cash awards for showing good performance in Academic results
- Giving cash awards for making special contributions to the Department /
 College

The increments and incentives are sanctioned by the Management under recommendations by the HODs, HRD.

The various statutory bodies and their functions in brief, are as follows:

• Governing body

(which formulates Policy regarding Academic and Administrative matters)

• Academic Council

(which works out detailed activities regarding academic matters)

Board of Studies

(which decide the Curriculum and Syllabi)

• Finance Committee

(which decide matters related to finance)

• Examination Committee

(which decide matters related to the conduct of Exams)

Planning and Evaluation Committee

(which is responsible for Planning and evaluating the functioning of the depts.)

• Grievance Appeal Committee

(which addresses the grievances of the students)

• Admission Committee

(which decides on policies regarding student admissions)

• Library Committee

(which decide on the functioning of Library)

• Student Welfare Committee

(which addresses the Welfare activities of the students)

• Extracurricular Activities Committee

(which decide on the Extracurricular activities)

• Academic Audit Committee

(which plans for audit of the departments)

• Research and Development Committee

(which plans and execute R & D activities)

• Anti Ragging Committee

(which addresses issues related to ragging)

Frequencies of the meetings are as follows:

• Governing body meeting : Once in a year.

• Academic Council meeting : Once in a year.

• Board of Studies meeting : Once in a year.

• Finance Committee meeting : Once in a year.

• Examination Committee meeting : Once in a year.

• Planning and Evaluation Committee meeting: Twice a year

The decisions taken at the Governing body meeting, is implemented in the Academic council and Finance committee.

The Decision taken at the Board of Studies meeting of each department is implemented by the Academic Council.

The Planning and evaluation committee ensures implementation of the decisions taken and objectives set.

Almost all the resolutions passed in the Management Council meeting, were implemented last year.

Innovative Practices

After creating a system, any organization should aspire to be successful in the long sum. Hence, Sona relies totally on innovative practices to ensure quality education. In addition to the university syllabus, value added courses are offered to the students in different functional areas. Technical skill development courses and contemporary courses are offered by Continuing Education Centres. Since the faculty members are members in the Board of Studies, they offer constructive suggestions to promote innovation in curriculum. Every faculty identifies few topics in their subjects which are beyond the syllabus. Also, students' feedback is taken every semester in order to implement innovative teaching methods in the curriculum. When new programmes are introduced, emphasis is given for industry related courses.

Innovation is adopted in the teaching methodology. Some of the practices involve case analysis

Modern Teaching methods in practice other than the lecture method

- Case Analysis
- Role Play
- Factory visits
- Field Visits
- Co-operative learning
- Management games
- Activity/Action Based Learning
- Video Documentaries
- Out Bound Training(OBT)

Participation of teachers in academic and personal counselling of students

- Academic and non- academic counseling for the students are done periodically by the respective faculty advisors and Class Counsellors
- Placement training involves like Group Discussion, Aptitude skill test, mock interview are provided to all the students.
- Corporate experts/Entrepreneurs are invited to deliver guest lectures in order to provide industry oriented exposure.

Staff Achievements:

- Book Publication(International) 1 faculty
- Book Publication (National) 4 faculty members
- 5 faculty members published 6 articles in International Journals.
- 17 faculty members published 76 articles in National Journals.
- 5 faculty members visited Assumption University of Thailand, Bangkok
- 8 faculty members are involved in training and consultancy work.
- One faculty member and the department played a key role in setting up CII, Salem Chapter.

- Two Training programs (Diploma in Marketing management – 6 months and Strategic Leadership for Schools in Changing Environment – 2 weeks) conducted under Government of India Project for HRD of Private Sector for Royal Government of Bhutan.

Students Achievements

S.No	Name	University Rank	University
1	Ms. Raja Rajeswari	16 th Rank	Anna
2	Mythili. A	41 st Rank	University
3	Swathi Elangovan	46 th Rank	Chennai

Involvement of students in academic/co-curricular and other activities of the department.

Year	No. of Meets	No. of	Prizes	Overall
	Attended	Events	won	Champion
		Participated		ship
2005-2007	2	2	2	-
2006-2008	9	29	16	1
2007-2009	12	42	19	4
2008-2010	10	51	20	4

Innovations and best practices initiated/adopted by the departments during the last five years.

Apart from Lecture methods the other methods adopted are Case Analysis, Role Play, Factory Visits, Field Visit, Co-operative Learning, Action Based learning, Management Games.

Also Value added courses are offered in all the areas like Marketing, HR, Finance

- 1. Banking Technology
- 2. Six Sigma (Green Belt)
- 3. Wealth Management
- 4. Retail Management

Miscellaneous Training programmes offered are

- Managerial Skills Training
- Leadership Training
- Cross- Cultural Training

Students are involved in Placement Activities, organize Management Events and involved in educational planning.

Development and expansion plans of the department for the next 5 years

- Research project in the areas of rural development, Entrepreneurship covering many villages near Salem.
- Organizing MDP for Executives and FDP for Teaching professionals
- Providing Consultancy/Training for industries in and around Salem.

The learning ambience at Sona facilitates the grooming of students into thought leaders and change agents with a Global mindset. At Sona, the students acquire the mind set, skills and competences, necessary to drive the country and the world forward into the next century, in a highly versatile action learning environment.

B. Criterion wise Evaluation Report

Criterion I: Curricular Aspects

1.1 Curriculum Design and Development

1.1.1 State the vision and mission of the institution.

Vision Statement

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 Statement

- To provide Graduate, Post-graduate, Doctoral and other value-added programmes beneficial for the students
- To provide state-of-the-art 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, competitive exams,
 and other value added programmes for their holistic development
- To provide opportunity to the students to 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 beneficial to the society

1.1.2 What are the goals and objectives of the institution? How are they made known to the various stakeholders?

- By administering and managing the research activities through centre for excellences on various research specialization as necessary for the advancement of the objectives of the College and undertaking research in various areas.
- Providing for instruction, training and research in various branches of knowledge pertaining to Engineering, Science and Technology and Management.
- Conducting innovative experiments in order to achieve high standard of education, research and training.
- By prescribing courses and curriculum and using methodologies for good delivery of the learning.
- Developing and maintaining relationships with industry experts, faculty members and researchers from other institutions.
- Regulating the expenditure.
- Receiving funds from Industry, National and International Organizations.
- Developing Infrastructure to facilitate high class learning.
- Admitting international students for various courses as per regulations
 Through Websites, brochures, academic calendars and news papers are
 made known to the stake holders.

1.1.3 How are the institutional goals translated into the academic programmes, research and extension activities of the institution?

The institution has a system of organization and governance that facilitates:

- Successful accomplishment of its mission and purposes.
- Delegation of authority and responsibility.
- Adequate support for each organizational Component.

Year	Long Term Plans			
1997	• To increase the number of programmes to six			
to	To increase the intake of students			
2001	To create the required Infrastructure facilities and resources			
2001	To get Accreditation for the Programmes			
to 2005	To get ISO-Certification			
	To establish Research Centres in various branches.			
	To go in for Post Graduate programmes and additional intake in			
2005	existing programmes			
2005 to	To enhance Institutional Centres of Excellence, to carry out			
2010	research,			
	Testing, consultancy, industry-linkages, continuing education,			
	etc.			
	To elevate the Institution to "AUTONOMOUS" status in 2010			
2013	To Obtain Deemed University Status			

1.1.4 What are the major considerations addressed by the goals and objectives of the institution? (Intellectual, Academic, Training, access to the Disadvantaged, Equity, Self Development, Community / National Development, Ecology and Environment, Value orientation, Employment, ICT introduction, Global demands, etc.)

The Governing Council(GC), Academic Council(AC) and Board Of Studies (BOS) govern the ordinances, curriculum, rules and regulations for conduct of Academic programmes and shall continuously monitor the programmes and make appropriate amendments as and when necessary. BOS involves participation from Industry Experts, Academic Peers, and all the faculty

members. After thorough discussion a draft is prepared by the department and presented to the BOS. Then, the proposals are put for consideration at AC level. In addition, inputs from students, alumni and employers are also taken into consideration through curriculum feedback. There is an element of Computer related courses for all the students of all the faculties/ branch of studies (For instance Programming in C), but the degree varies from creating simple awareness to highly technical courses in Computer Science and Engineering and Information Technology and MCA. In addition, Object Oriented Programming and Data structures and algorithms are taught in circuit branches. Engineering Drawing subject is taught using CAD tools. All faculty members and students are expected to give their seminar presentation using MS-Office tools. Non formal education for the community development also functions smoothly to fulfill the societal needs.

1.1.5 Does the curricula developed / adopted address the needs of the society and have relevance to the regional / national developmental needs?

A nation for further development requires motivated human resources with necessary technical and social skills along with good character. To address this,

- i) By developing the right technical courses which enhance advancement of the nation, and
- ii) By introducing courses which help student's character developmentBy introducing non conventional courses like YOGA and SelfDevelopment. Moreover, students are encouraged to take initiatives in

organizing various cultural events to make them better leaders. Further, a student is sensitized to the prevailing situation in a country by giving them opportunity of seeing nearby organization s where people from weaker sections of societies are given necessary services. On the whole the College strives to ensure that not only technocrat is developed but a complete human being with good civic sense and healthy mind is developed. A Strong youth o f today is going to be partner to the development of India's future. In the College, it is mandatory for students to go in rural camp and motivate the rural people about their education and personal development through NCC, NSS and YRC etc.

1.1.6 What percentage of the courses focus on experiential learning, including practical and work experience for overall development of students and what measures have been taken in the curriculum design?

The experiential learning and hands-on practical courses are a major component of all the branches in the College. In all branches around 40 - 45% of courses are practical oriented (including project internship). There is also Industrial training, Industrial visits and project internship at reputed organizations make them capable to work in real time industry environment.

1.1.7 How is employability is ensured through curriculum design? Does the institution focus on multi skill development of students, in the programmes?

An employer looks for a set of skills, knowledge input and attitude in a person they employ. These are provided during the tenure of a student at the

College by ensuring that the necessary skill set and knowledge inputs are given in a manner that the person can be useful to the employer from day one. In curriculum, placement and training activities are included to enhance the employability of the students. Further, employability is ensured by introducing industrial/ field training and introduction of electives in the programme. The involvement and continuous interaction with industry and academic institutes, for curriculum framing as well as updating the same according to the current trends, helps in absorbing students for summer internship as well as final placement.

1.1.8 Is there a provision for computer skills to be incorporated in the curriculum for all students?

Yes. There is an element of computer related courses for the students of all the branches but the degree varies from creating simple awareness to highly technical courses in computer applications. In first year, all undergraduate students are studying Fundamentals of Computer Programming. In addition, all Engineering programmes have included atleast one Programming Language course. For example, Electrical Engineering and Electronics and Communication Engineering students have fundamental computer courses on "Programming in C", "Object Oriented Programming" and Data Structures and Algorithms. In addition, Mechanical and Civil Engineering students drawing subjects are taught using CAD tools. In all branches students are expected to give their seminar, demonstration and other presentations using MS-Office tools. MBA Program has included a course on Management Information System. In all programs, students are encouraged to use the internet extensively to gain knowledge of recent development in their field.

1.1.9 List the twinning / collaborative arrangements within and outside the country for various programme offerings.?

The first twinning programme is arranged with Syracuse University, Newyork City, USA for M.S. Computer Science Programme and research collaborations – for this an MOU was signed between Sona College of Technology and Syracuse University. The second one is with Wayne State University, USA for Mechanical Engineering discipline. In addition, many MOUs are signed with reputed organizations for collaborative works.

1.1.10 How are the global trends in higher education reflected in the curriculum?

Introduction of new courses and new UG / PG programmes are based on the global trends and requirements. We also perform periodic revision of curriculam. This is enabled by the constant interaction with Industry experts, Distance Education, Computer Based Training (CBT) packages, EDUSAT, academic peers and reputed institutes with-in state and across India.

1.1.11 What thrust is given to 'Information and Communication Technology' in the curriculum for equipping the students for global competition?

Improved teaching (presentation, demo etc), evaluation (direct individual feedback), collaboration (group ware, open source projects and exchange on a global scale), online exams and certifications and E-Learning (ease

of access, virtual simulation, independent of time and place, individual interactivity and student centered). This path breaking introduction of Information and Communication Technology perspective argues that continued rapid innovation and excellent growth of this technology will reconcile diverse interests and make students to enable competition to flourish.

1.1.12 What are the course aiming to promote value education / social citizenship roles?

Yoga, Meditation, Personality Development and Cyber Security courses are included to promote value education and social citizenship roles. In the curriculum certain weightage is given to include courses like Professional Ethics, Environmental Engineering and Disaster management in all the braches of Engineering and Technology. Cultural education is imparted by making students sensitive to our value system, traditions and culture by various events organized during Cultural Fest conducted for annual day celebrations every year.

1.1.13 How does the institution involve internal and external academics and experts form industry (employees) / service sector, in the curriculum development process?

The Academic counsil organizes Board of Studies meeting every year to review existing curriculum. This involves participation from Industry, Academia, Alumni and all the faculty members.

1.1.14 Specify the steps undertaken by the institution in the curriculum development process.(Need assessment, development of information database from faculty, students, students, alumni, employees and academic experts, and formalizing the decisions in statutory academic bodies.)

The Academic Council of the College organizes Board of Studies meeting for the purpose of Curriculum Development every year to review existing curriculum. After thorough discussion a draft is prepared by the department and presented to the Boards of Studies. Then, the recommendations are put for consideration at Academic Council level. Inputs from students, alumni and employers are also taken into consideration through curriculum feedback.

1.1.15 How do Boards of studies ensure the currency and relevance of the programme offerings?

Board of studies comprises of experts from industry, employers, research organizations and Academia. They discuss the currency and relevance of the programme being offered. They also discuss suggestions given by students, alumni and industry experts and take appropriate decision and finally approve the curriculum.

1.1.16 Are Women's issues incorporated in the curricula? If yes, what are the initiatives taken to introduce women –related issues / topics in the curriculum?

In all the branches of Engineering, Management courses are introduced with certain credits. The syllabus includes a focus on gender issues.

1.2 Academic Flexibility

1.2.1 What is the range of programme options available to learners in terms of degrees, Certificates and Diplomas? Give the cut off percentages for admission at the entry level.?

The College offers 30 programmes (UG, PG and Ph.D.) in the fields of Engineering, Management and Computer Applications. Admission to all programs will be required to satisfy the conditions of admission prescribed by Anna University of Technology, Coimbatore and Government of Tamilnadu prevailing at the time of admission.

1.2.2 Does the institution offer any self –financing programmes in the institution ?List them.?

Yes. The College offers self- financing programme in B.E. (CSE/Civil/ECE/EEE/Mech), B.Tech (IT, TT), M.E. (CS, CSE, ED, PDD, PED, PSE, SE and VLSI), MCA and MBA.

1.2.3 How does the institution provide for flexibility in the use of a) Core options b) Elective options c) Supportive courses d) Allied courses e) Any other.

Yes. The College provides Core, Allied, Supportive and Elective course options.

1.2.4 Does the institution provide flexibility for combining the conventional and distance mode of education for students;seek the combination of courses they are interested in.?

No. The College provides only conventional model of education.

1.2.5 Does the institution provide flexibility to students to move from one discipline to the other/ give details.?

No. Since students are admitted to a particular discipline at the time of admission (admission procedure is prescribed by Govt. of Tamilnadu).

1.2.6 Does the institution provide flexibility to pursue the programme with reference to the time frame (flexible time for completion)?

Yes, the College provides flexibility to pursue the program with flexibility of time frame (break of study and withdrawal from studies).

1.2.7 Does the institution have any provision for slow and disadvantaged learners? Give details.

There is a provision for corrective examinations for slow learners. Faculty members pay more attention in laboratory and provide special coaching and counseling to slow learners.

1.2.8 How does the institution identify slow and advanced learners? Explain how additional help is provided to the slow learners to cope with the programme? How are the advanced learners facilitated to meet the challenges?

The College has provision of student assessment by weekly tests and model examinations (Continuous Internal Assessment) through which faculties can identify slow and advanced learners. The faculty members encourage

students' interaction, classroom discussion and conduct quizzes to identify slow and advanced learners.

To improve the performance of slow learners periodic monitoring, regular counseling and additional practices in examination-centered tests are carried out. In addition, parents' meeting is conducted and their wards performance will be discussed.

Various programmes on advanced courses are organized during vacation and holidays to encourage advanced learners. The students also get opportunity to participate in several national and international level technical events.

1.2.9 What are the options available for students to take additional/ supplementary / enrichment courses along with their regular curriculum (Eg.Degree + a Certificate: P.G degree + a diploma)

Students are encouraged in participating Professional society and Association activities by the department. Various programmes are organized through the centre of Continuing Education (IBM -RAD, DB2 and blue scholar certification, Oracle, PCB, VLSI and CAD/CAM courses) and the students are motivated to take up these courses. Corporate experts / Entrepreneurs are invited to give Special Lectures and Technical Talks. Students are encouraged to take up Industrial Training/Visits, Project internship at reputed organizations. In addition, the students are given opportunity to involve in the research activities of various Centers of Excellence in different disciplines established by the Institution.

1.2.10 What value added courses are introduced which would develop skills, offer career Training and promote community orientation?

Development skills: Computer Science and Engineering and Information Technology departments have included Dot Net Technology and Java Programming courses. Electronics and Communication Engineering department has included courses like VLSI and ASIC design. Mechanical and Civil Engineering departments have included CAD/CAM course. Management Programme has included a course in communication and interpersonal development skills.

Career training: Industry training, Certified courses like CISCO and Oracle Certification, IBM RAD certification Technical programs and soft skill development programme by Infosys and exclusive Placement and Training activities.

Promote community orientation: Management related courses offered in all Programmes. They sensitize students with the Community needs.

Short-term non-formal and vocational programmes are organized to impart specific skills like Ecological awareness programmes, Entrepreneurship development programmes and social welfare camps through various clubs. Training programmes are offered in the areas of Engineering, Technology, crafts and Fine arts, Languages and Management.

1.2.11 Does the institution provide faculties for credit transfer, if the students migrate from one institution to another within or outside the country?

No.

1.2.12 State the curricular design and model adopted by the college in the organization of its curricula. Does the institution follow annual system, Trimester System, Choice Based Credit System (CBCS) or Semester system? Give details:

The Academic Counsil of the College organizes Board of Studies meeting once in a year and a curriculum development workshop through which formulation and revision of curriculum is carried out.

Semester and credit system for all B.E. /B.Tech., M.E., MCA and MBA programmes is followed.

1.3 Feedback Mechanism

- 1.3.1 How does the college obtain feedback from;
 - a) students
 - b) alumni
 - c) employers / industries
 - d) community
 - e) academic peers
 - All the students
 - **Alumni**: Every year, the College organizes alumni meeting in which feedback is taken. They are also member of Board of Studies. In the Institution website an option is available for giving online feedback.
 - Employer/ Industries: Curriculum development workshop is organized, in which employers are invited. Their feedback is taken during these interactions. Board of studies of each faculty or department has an industry expert as member and feedback is obtained during these interactions. Regular interaction with industry experts by either sending

faculty at their location or by inviting them at university for delivering expert talk. During industrial visit and internship feedback is sought from participating companies.

- Community: Parent Teachers' meet is organized at regular intervals.
 Parents give their feedback during these interactions.
- **Academic peers**: Board of studies of each faculty or department has an academic peer as member. Through regular interaction with academic peers when they visit the University as an examiner and other purposes.

1.3.2 How are the feedbacks segregated, analysed and suggestions incorporated for improvement of the academic and administrative activities?

Board of Studies discusses all feedbacks and after that necessary decisions and recommendations are made for further improvement.

1.3.3 What are the initiatives taken by the faculty in the curriculum revision based on the feedback from the stakeholders?

Students' feedback is obtained every semester, in order to implement innovative teaching methods in the curriculum. Parents are invited to attend parents' meeting (organized once in a semester) and counseling sessions and other functions. During these interactions feedback is collected from them and also from employers, alumni and Industries 0 for further improvement.

1.4 Curriculum update

As the institution conferred autonomous status during the academic year 2010-11 and affiliated to University previously. There is a significant

technological change in last five years in India and the World. To keep pace with such changes, through review and change in syllabus of almost all programmes will be implemented.

1.4.1 What is the frequency of syllabus revision?

Once in two years.

1.4.2 How long does it take to introduce a new programme of study after it has been conceptualized?

One year.

1.4.3 What is the Composition of the Board of Studies? Specify PG and UG representation in the BOS, if there is only one BOS for both?

The Board of Studies constitutes

- Head of the Department as the Chairman
- All Professors
- Two Assistant Professors (By Rotation)
- Two Lecturers (By Rotation)
- Two Experts to be co-opted from outside the University
- Student representatives

In PG, the representation covers faculty members with various specializations (one professor, Assistant professors and Lecturers) and for UG senior professors, Assistant professor and senior lecturers are the members for BOS.

1.4.4 Does the institution use the UGC guidelines for developing or restructuring the curricula?

Yes.

1.4.5 Does the institution refer national and international models for curriculum update?

Yes.

1.4.6 What are the interdisciplinary courses introduced during the last five vears?

The interdisciplinary courses introduced during the last five years include Mechatronics, Computer Programming, Environmental Engineering and Engineering Graphics.

1.4.7 How does the institution ensure that the curriculum bears some thrust on national development?

A nation. for further development, requires motivated human resources with necessary technical and social skills along with good character. To address this, the Institution works in two specific areas:

- i. By developing the right technical courses which enhance advancement of the nation, and
- ii. By introducing courses which help student's character development.

Our College ensures this by introducing non conventional courses like Yoga and Self Development. Moreover, students are encouraged to take initiatives in organizing various cultural events to make them better leaders. Further, a student is sensitized to the prevailing situation in a country by giving them opportunity of seeing nearby organizations where people from weaker sections of societies are given necessary services.

On the whole, the College strives to ensure that not only technocrat is developed but a complete human being with good civic sense and healthy mind is developed. A Strong youth of today is going to be partner to the development of India's future.

1.4.8 How are the existing courses modified to meet the emerging needs?

The syllabus of the reputed institutions like IITs, NITs and foreign Universities will be analyzed periodically for improvement of the various programme syllabi. Suggestions from senior academicians, feedback and emerging needs from Industry experts and R&D organizations are included to modify the existing courses.

1.4.9 Which courses have major syllabus revision during the last five years?

Computer Science and Information Technology related courses have revisions during the last five years.

1.5 Best Practices

1.5.1 What are the quality sustenance and quality enhancement measures undertaken by the institution during the last five years in curricular aspects with reference to curricular design and development / academic flexibility / feedback from stake holders / curriculum update?

Some of the senior professors are the Board of Studies members in Anna University of Technology, Coimbatore, other universities and autonomous

colleges. They suggested changes in the curriculum and the curriculum was updated accordingly.

1.5.2 What innovations / best practices in 'Curricular Aspects' have been planned / implemented by the institution?

There is a significant technological change in last five years in India and the World. To keep pace with such changes almost all faculty and staff members training needs are identified and training programmes are either conducted or deputed to other training institutes like NITTTR, IITs and NITs (to name a few Infosys campus connect, EDUSAT programme by Anna University, Chennai and IIT, Bombay, Wipro Mission 10X and NPTEL video lectures). In addition, they can participate in workshops, seminars and conferences in leading institutions. Faculty members are motivated to implement innovative teaching practices.

1.5.3 What are the initiatives taken to introduce gender related courses / topics in the curriculum?

In Management programme the curriculum includes a focus on gender issues via courses such as Managerial Values and Business Ethics, Legal aspects of Business and Organizational Behavior. Extra, all the Faculty of Engineering, Technology, Management and Computer Applications adopt AICTE guidelines and UGC guidelines

1.5.4 What programmes are developed for differently – abled students and how is the same implemented?

At present there are no such programs being developed.

1.5.5 What programmes are available for international students?

All programmes are open to International students subject to fulfillment of the eligibility criteria.

1.5.6 What programmes are developed for adult and continuing education and distance education?

At present there are no such programs being developed. But the institution has non formal and vocational training centre through which number of programmes are organized. The Institution do not offer distance learning programs.

Criterion II: Teaching-Learning and Evaluation

2.1 Admission Process and Student Profile

2.1.1 How does the institution ensure wide publicity and transparency in the admission process?

a) Publishes the Annual Prospectus : Yes

b) Has an active website : Yes,

www.sonatech.ac.in

c) Advertises in regional / national dailies : Yes

(The Hindu, Indian Express, Deccan Chronicle and local Tamil dailies)

2.1.2 How are the students selected for admission to the following courses?

a) General : NA

b) Professional:

For the **BE/BTech** degree courses, 65% of the applicants are allotted seats on the basis of a state-level merit-list and governmental reservation policy. The merit list is compiled by the Government of Tamilnadu, the qualifying marks being computed from the 12th Standard Physics, Chemistry and Mathematics marks in a prescribed manner.

The remaining 35% of the applicants are selected according to the guidelines of a 'Committee to Oversee the Admissions of Professional Colleges in Tamilnadu' and by using a state-level merit list of the Association of Self-Financing Colleges in Tamilnadu.

For the ME, MBA and MCA programmes, 50% of the applicants are allotted seats on the basis of a state-level merit list compiled by the Government of Tamilnadu and governmental reservation policy. The

qualifying marks for admission are the scores obtained by the candidates in a state-level common entrance test (TANCET).

The remaining applicants are selected according to the guidelines of the 'Committee to Oversee the Admissions of Professional Colleges in Tamilnadu' and by using a state-level merit list, based on a common entrance test (CET) of the Association of Self-Financing Colleges in Tamilnadu.

All of the admissions are finally verified by the Directorate of Technical Education, Chennai.

c) Vocational: NA

2.1.3. What strategies are adopted to create equity and access to,

a) Disadvantaged-community (SC/ST/OBC)

SC and ST community students are admitted to the extent of 19% of the sanctioned intake using the state-level merit list and according to the directions of the Government of Tamilnadu.

The OBC community, including BC, BC Muslim and MBC-Most Backward Community candidates, is admitted to the extent of 50% of the sanctioned intake using the state-level merit list and according to the directions of the Government of Tamilnadu.

b) Women

Of the students admitted in the last two years, the percentage of women students is about 45%. Also, to encourage and enhance the admission of

women, a Tuition Fee Waiver Scheme is in place at Sona College; the scheme benefits the top 3% of the admitted women.

c) Differently-abled Candidates

Three per cent of the seats are allotted to differently-abled candidates according to the norms of the Government of Tamilnadu. All of those admitted under this category are provided with Management Scholarships that comprises a full or partial tuition fee waiver.

d) Economically-weaker Sections of the Society

Candidates coming under the economically weaker sections (backward and most backward communities) are admitted to a maximum of 50% according to Government of Tamilnadu norms, under which the government gives first-graduate-in-the-family incumbents a tuition fee waiver.

The college management also provides a full tuition fee waiver to meritorious students coming under the economically weaker sections of society.

e) Athletes and Sportspersons

The government reserves a quota of seats for eminent sportspersons. Sportspersons are also admitted under the management quota and management scholarships to the tune of Rs 8 lakhs are awarded to students excelling in sports and games.

All of the above admissions are finally verified by the Directorate of

Technical Education, Chennai for conformity with the policy of

Government of Tamilnadu.

2.1.4 What is the ratio of applications received to admissions granted?

(Demand Ratio)

Professional courses

The BE/BTech degree admissions are made from the state-level merit

pool by the Government of Tamilnadu under the Single-Window

Admission System. From about 1.6 lakh applicants, around 1.2 lakh

students are admitted to the engineering colleges in Tamilnadu.

Sona College is one of the 20 most-preferred colleges among about 500

colleges in Tamilnadu, i.e. it is among the top 5%. It can only be inferred

from this fact that the demand ratio may be around 25: 1 to 30:1.

A similar preference for the college is observed in the ME, MBA and

MCA degree admissions.

The demand ratio for the management quota seats is much lower.

a) General courses

: NA

b) Vocational courses

: NA

c) Other post-graduate courses

: NA

d) Other undergraduate courses

: NA

e) For all courses

: NA

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2.2 Catering to Diverse Needs

2.2.1 Is there a provision for assessing students' knowledge / needs and skills before the commencement of the teaching programme?

The 'normalised' 12th Standard marks of applicants to professional programmes compiled by the Tamilnadu Government are a good indicator of the relative knowledge levels of students entering the college. (The 12th Standard mathematics, physics and chemistry marks are reduced to 200 marks in a specified manner and the 'cut-off' or qualifying marks are arrived at.)

2.2.2 What remedial measures are available for students hailing from the disadvantaged communities?

Besides the scholarships announced by the government from time to time, the college also provides various categories of scholarships to needy candidates, especially those from the disadvantaged communities.

2.2.3 Does the institution provide bridge courses to the educationally-disadvantaged students?

Yes, a four-week bridge course, including mathematics, physics, chemistry and basic computer programming is organised every year for students entering college with relatively low 'cut-off' marks.

2.2.4 What specific strategies are adopted for facilitating slow and advanced learners?

 a) Special classes are organised to help slow learners cope with challenging subjects.

- b) At tutorial classes, faculty will normally teach only about half the number of students of a regular class; the teachers can thus devote more time for the slow learners to help them overcome learning challenges.
- c) Advanced learners are encouraged to deliver seminars to the class of which they are a part. This provides them with the opportunity of independent learning and thus to learn beyond the syllabus.
- d) Advanced learners and slow learners are also encouraged to participate in peer-coaching, where the former help the latter get a clearer understanding of complex concepts they could not learn well in class.

2.2.5 Is there a practice of having tutorial classes for the students? If yes, for what courses?

Yes, especially for the mathematics courses and those having problem-related content.

2.2.6 Give details of the course by sessions of work assigned and implemented in the tutorial session?

On an average, 33% of the periods scheduled for specific courses are normally allotted for the tutorial sessions, where the teacher would be coaching only about half the number of students as in a regular class. This allows the teacher more time for coaching students who need personal attention. Tutorials mainly focus on problem solving practice to enhance learning.

2.2.7 Is there a provision for counsellors / mentors/ advisors for each class or group of students for academic and personal guidance? If yes, specify.

Yes. Every class of students, irrespective of discipline, year or semester, has a "Class Counsellor" who acts as the Chief Mentor of the class, maintains all records of the students and liaises with them for everything.

Besides this, about 20 students, consisting of a mixed group of good and below-par students, are attached to a faculty, who is their "Faculty Adviser" (FA). An FA will meet with the wards once a fortnight for providing academic and personal guidance and be their 'counsellor' for their entire stay on the campus until graduation.

2.2.8 How is the academic process of each student monitored by the teacher in charge?

Teachers monitor the academic progress of students on a day-to-day informal basis through regular classroom questions and formally by means of pre-scheduled weekly tests, homework assignments, innovative study assignments, seminars, intensive coaching and model examinations.

2.2.9 What are the measures taken by the institution to cater to the needs of differently-abled students?

As stated in Section 2.1.3 above, three per cent of the seats are allotted to. Also, scholarships in the form of fee waivers are provided to the differently-abled persons admitted to the college.

Special physical facilities, like ramps, customised classroom / lab furniture, etc, have also been installed to ensure that the physical ambience for these students is conducive to study.

2.3 Teaching-Learning Process

2.3.1 How does the institution plan and organize the teaching and learning evaluation schedule into the total institutional scheme? Do you have an academic calendar? How is it prepared?

Meetings with the HODs are called for by the Principal periodically to plan and organise the academic activities and schedule for every semester. The activities include allocation of courses to faculty, organising the development of or procurement of course material including lab manuals, preparation of timetables, weekly tests schedule, test-invigilation schedules, seating pattern for the tests, course planning records of faculty, model exams, last working day, study holidays, etc.

Yes, the institution has an academic calendar. It includes all the major academic activities of individual departments and those of the institution.

The calendar is developed by calling for lists of the major departmental activities scheduled for the year ahead from individual departments and compiling them into one common "Academic Calendar" that also includes major institution-level events, like Annual Day, Sports Day, Hostel Day, Graduation Day, Women's Day, Founder's Day, etc.

2.3.2 What are the courses, which use predominantly the lecture method? Apart from classroom interactions, what are the other methods of learning experiences provided to students?

Faculty use the lecture method of teaching most predominantly for the theory courses. The lecture sessions are made interesting by the use of appropriate teaching aids as stated in Section 2.3.4.

Student learning in the theory and lab classes is reinforced by other methods of teaching like demonstration, group discussion, industrial visits, brainstorming, case study, organised quizzes, games, role play, the last two methods especially for management courses.

2.3.3 How is 'learning' made student-centric? Give a list of the participatory learning activities adopted by the institution, which contribute to self-management of knowledge development and skill formation

There is an increasing focus in the college to use 'student-centric' techniques that provide students the opportunity of developing into independent learners. The overall idea is to ensure that through gradual empowerment student-centred learning focuses on student outcomes rather than on teaching.

The college strongly believes that opportunities of this kind will help them ultimately to engage in life-long learning, an ability that will stand them in good stead in their professional lives. The common student-centric methods that are used include seminar, industrial visit, in-plant training, innovative mini-projects, main (capstone) project and assignments.

Additionally, as stated in Section 2.3.4 below, other modern techniques to enhance student-centric learning experiences are provided via the EDUSAT lectures, WEBCAST/WEBINAR programmes and Amrita-VIEW lectures. The institution is in the final stages of installing a video-streaming facility by means of a 1.5-Terabyte NPTEL hard disc, consisting of video lectures by experts on a whole range of engineering and technology courses via an intranet that both students and staff can access anywhere on the campus.

2.3.4 What are the modern teaching aids used in classroom instructions as well as other student learning experiences? How are these used to facilitate modern information / knowledge flow to students?

The modern teaching aids used are listed below:

- a) Faculty have access to a good number of OHPs (21) and VHPs (34) for use in classrooms or labs.
- b) The college's Learning Resources Development Centre (LRDC called Sonaversity) has come out with around 75 Computer-Based Training/Teaching (CBT) packages for most of the courses of the UG programmes. The CBT packages are used by teachers in the class and by students (at home).

- c) Special expert lectures are beamed to students via the EDUSAT connected with IIT Bombay, the INDO-US satellite program and Anna University, Coimbatore
- d) WEBCAST / WEBINAR programmes in collaboration with Infosys Technologies are used to enhance student learning of topics of current importance.
- e) Amrita's A-VIEW (Virtual Interactive E-learning World) facility: special expert lectures on engineering and technology are presented to student groups in collaboration with IIT-Bombay and Amrita University
- f) Video lecture tapes/CDs/DVDs of lectures by renowned academics from IITs, Harvard University, Stanford University, etc on emerging topics in the areas of engineering, technology and management, which can be used for large groups (in a seminar hall) of for small groups with a CCTV and cordless headphones (in the Central Library itself)

2.3.5 How do the students and faculty keep pace with the recent developments in the subjects?

a) The college encourages the faculty to regularly update themselves in the subjects they normally teach through liberal financial support that staff development activities will entail.

A good number of AICTE/Anna-University sponsored Staff Development Programmes, conferences, seminars and guest lectures in various disciplines of study are organised on the campus and other colleges; these programmes are a great opportunity that the faculty rarely miss.

The campus has an intranet facility that has high-bandwidth internet connectivity and the faculty have easy access to computers in their own departments. The internet is a vital avenue for subject updating frequently used by all faculty.

Faculty also benefit from the expert lectures available on the campus via EDUSAT and A-VIEW. They can also listen in to experienced professors expatiate on the recent developments in their subjects by logging on to the NPTEL video-streaming facility that is on the verge of being commissioned.

b) The students are able to keep abreast with recent technological developments in the subjects they learn through topics of emerging importance taught to them in class as topics 'beyond the syllabus'. Other ways include the student-centred methods mentioned above, e.g. class seminars, the EDUSAT and A-VIEW lectures, etc.

Guest lectures by invited industry experts and inter-college student symposia are organised frequently for the benefit of the student. They also gain from the conferences organised by the college.

The students have access to internet in the Central and PG libraries from 8.00 am to 8.00 pm on week days and up to 5.00 pm on Sundays.

2.3.6 Are there departmental libraries for the use of faculty and students? Give details.

Every department in the college has its own library that has in stock textbooks, reference books, CDs and back volumes of journals. It also has

reading facilities, computers with internet connectivity and in some cases a CCTV. These libraries are relatively smaller than the Central Library, but due to their proximity and quick access, are used by both faculty and students.

2.3.7 Does the library have INFLIBNET / DELNET facility? What percentage of the faculty uses these facilities?

The Central Library of the college is a member of DELNET since 2001 and 212 books have been borrowed via this facility during the last nine years.

Over the years since 2001, the library has considerably enhanced its resources with reference books and journals (Vide following section). Therefore, at present, only about five per cent of the faculty use the DELNET services.

The college has also lent 87 books under this facility to requesting member-colleges since 2005.

2.3.8 Does the library have a comprehensive collection of books and journals for all departments?

The library has a vast collection of learning and reference resources that more than meet the needs of all the departments in the college.

S.No	Resource	No. of Titles	No. of Volumes
1	Textbooks	12.182	50,911
2	General Books	4697	6490
3	Reference Books	2462	2731
4	International Journals	110	Total no. of back
5	National Journals	128	volumes - 1983
6	General Magazines	50	-
7	CDs / DVDs	2255	-
8	Databases CMIE – "Prowess"		
9	Online Journals – IEL, ACM, ASME		
10	AV Resources – NPTEL video lectures		

2.3.9 What are the various teaching – learning methods (lecture method interactive method, project-based learning, computer-assisted learning, experiential learning, seminars and others), used by the teachers for various subjects.

As mentioned in Section 2.3.2, teachers use the lecture method for most of the theory courses; other methods of teaching are also used, e.g. demonstration, group discussion, industrial (field) visits, brainstorming, case study, organised quizzes, management games and role play, the last two methods especially for management courses.

Student-centred methods, where the teacher shares the control of learning with the student, like seminar, mini/industrial projects, internship in industry, etc. are increasingly being used.

2.4 Teacher Quality

2.4.1 What is the faculty strength of the college? How many positions are filled against the sanctioned strength? How many of them are from outside the state?

Faculty strength	283
Sanctioned faculty strength	266
Faculty from other states	5

2.4.2 How are the members of the faculty selected?

The process for the selection of faculty members is as follows:

- a) Applications for faculty vacancies or new positions are called for through newspaper advertisements. The curriculum vitae of prospective candidates are also downloaded from reputed internet job sites.
- b) The CVs are scrutinised and the suitable candidates meeting prescribed requirements of qualifications and experience are short-listed and called for interview.
- c) The candidates are screened by an interview panel, consisting of senior staff members from the departments concerned, and if need be, outside external experts.
- d) The candidates selected by the panel are interviewed by the Principal.
- e) Based on the recommendations of the Principal and HOD, the final recruitment is approved by the Secretary.

2.4.3 Does the college have the required number of qualified and competent teachers to handle all the courses for all departments? If not, how do you cope with the requirements?

Yes. Our college has the required number of qualified and competent teachers. The Principal calls upon the HODs, usually at a meeting with them well before the start of a new semester, to requisition the HR Department for any vacancies that may need to be filled. So most of the time, the required faculty are always on the rolls.

2.4.4 Do you appoint substitutes/ additional faculty to teach existing and new programmes? How many such appointments were made during the last year?

The institution does not appoint any substitute / additional faculty to teach existing and new programmes, as steps are usually taken well in advance of any kind of faculty requirement.

The teaching-learning process is reinforced for some essential and elective courses with lectures by invited industry personnel or experienced academics specialised in the subject.

2.4.5 What percentage of the teachers has completed UGC, CSIR, NET and SLET exams?

Four faculty have completed the SLET exams.

2.4.6 What efforts are made by the management to promote teacher development? (E.g. research grants, study leave, deputation to national/ international conferences / seminars, in-service training, organizing national/ international conferences etc.)

The college is strongly committed to faculty development and motivates the faculty to update / upgrade themselves through the following ways:

- a) Providing financial assistance to participate in national / international conferences, seminars, workshops, FDPs, SDPs or any other programmes organized by AICTE / ISTE etc.
- **b)** Providing special incentives for faculty involved in research and those successful in obtaining research grants
- c) Permitting faculty to pursue higher studies by granting them sabbatical leave, in some special cases with pay
- **d)** Nominating faculty members for the in-house pedagogy training programmes organised by the HR Department at least once a year.
- e) Providing an exclusive officer to help faculty / individual departments to coordinate the task of preparing the attachments/documents to be sent along with the applications to external authorities for various types of grants, to check and despatch them, and also to follow them up.

- 2.4.7 What are the teaching innovations made during the last five years?

 How are innovations rewarded?
 - a) Computer-Based Teaching (CBT) Packages: As mentioned earlier in Section 2.3.4 (b), the college develops a whole range of CBT packages that includes an illustrative textbook and a CD-ROM per course at its LRDC Sonaversity, established in 1999-2000.

The CD has 2D or 3D animated and / or video versions of engineering concepts that are normally a challenge for the teacher to teach by traditional methods. Use of these CDs in the classroom by the teachers makes for easy comprehension of the concepts by students, who can also use their personal copies of the CD to reinforce learning at home.

Faculty involved in the development of CBT packages are rewarded by appropriate remuneration for their contributions.

The CBT packages are in good demand in many other engineering colleges in Tamilnadu.

- **b)** Classroom Quizzes: Used occasionally by some teachers at Sona College as a break in the regular classroom routine, quizzes raise student enthusiasm and bring in a competitive ambience while enhancing student learning of topics from a course taught by the teacher.
- c) **Team Teaching:** This is another technique used at the college especially for on-the-job training of young teachers to help them gain experience and

confidence in teaching. In team teaching a young teacher is teamed up with an experienced teacher and they teach the same class together, sharing the topics to be taught. The senior teacher provides personal feedback on the young teacher's performance after the class to encourage improvement in teaching skills.

(same day) learning of the underlying principle and significance of the experiments performed. Oral examination of individual students is not possible at the end of lab classes due to want of time. To obviate this, students are given previously prepared printed versions of short-answer questions on the day's experiment that are typical of practical viva questions, and they are asked to answer them after completing the experiment. Written feedback on their learning is provided to the students at the start of the next lab class and the method is repeated class after class, the questions asked thus forming a bank of viva questions over time.

2.4.8 Does the institution have representation of women among the staff? What percentage?

The college recruits the most competent staff irrespective of gender considerations. At the present time there is a good representation of women to the extent of 45% of the total staff strength.

2.4.9 List the faculty who have been recognized for excellence in teaching during the last five years?

The college recognises teaching excellence of its faculty annually at a Teacher Awards Day function, where faculty who have produced 100 %

and above-90% pass results in the courses they have taught in the past academic year are awarded appropriate cash awards and certificates.

In the last five years, nearly 1000 faculty members have been recognised for teaching excellence, besides outstanding performances in other areas of college and academic activity.

2.4.10 List the faculty who have undergone staff development programmes during the last five years (refresher courses, orientation programmes and staff training conducted by the university and other institutions)

The lists of faculty who have been trained department-wise over the last five years are given in the tables that follow.

MECHANICAL ENGINEERING

	Year 2009-2010			
S.No	Name of the Faculty	Programme Attended		
1.	Mr.R.Viswanathan	One Day Training Programme – Rapid Prototyping		
2.	Mr.R.Viswanathan	Short Term Training Programme - Rapid Product Development		
3.	Mr.R.Sasikumar	Two day course on Testing and characterization of Materials		
	Yea	ar 2008-2009		
1.	Dr.R.M Arunachalam	Research Update		
2.	Prof.J.S.Senthilkumar	Short term training programme on 'Advanced Engineering Optimization Through Intelligent Techniques'		

S.No	Name of the Faculty	Programme Attended
3.		SDP on 'Micro and Nano technology
J.	Mr.R.Sasikumar	for power generation and energy
4.	Mr.N.Ravikumar	conversion application' SDP on 'CAD & FEM'
5.	Mr.S.Lakshmanakumar	SDP on 'CAD & FEM'
6.	Dr.R.M Arunachalam	Short term course on 'Electron
		Microscopy'
7.	Mr.R.Sasikumar	Short term course on 'Electron
		Microscopy'
8.		
	Prof.S.Dharmalingam	Short term course on 'Electron
		Microscopy'
	Yea	nr 2007-2008
1.	Dr.R.M Arunachalam	Short term course on 'Micromachining'
2.	Mr.N.Ravikumar	FDP on 'Vibration and Noise Control'
3.	Mr.A.Sivapragasam	Pedagogy Training Programme
4.	Mr.A.Jegan	Pedagogy Training Programme
		course on 'Introduction to Micro
5.	Mr.R.Sasikumar	manufacturing Technoloies'
		S
6.	Prof.S.Dharmalingam	SDP on 'Finite Element Analysis'
	Vaa	ur 2006-2007
	1 ca	
1.	Mr.V.M.Madhavan	CSI College of Engg. Ketti.
_		Seminar on 'Renewable Energy Today
2.	Mr.V.M.Madhavan	and Tomorrow'
		One day Awareness Programme on
3.	Mr.V.M.Madhavan	'Renewable Energy Sources'
<u> </u>	I	1

S.No	Name of the Faculty	Programme Attended		
4.	Mr.A.Jegan	One day Awareness Programme on		
	J	'Renewable Energy Sources'		
_		Short term training programme on		
5.	Dr.R.M Arunachalam	'Advanced Manufacturing and		
		Metrology'		
6.	Mr.R.Sasikumar	FDP on 'Quantitative techniques for		
		Research in Engg. And management		
7.	Mr.N.Mohanasundarar	FDP on 'Quantitative techniques for		
	aju	Research in Engg. And Management'		
	Year 2005-2006			
1.	Prof.N.Sundaramoorthy	Course on Engineering		
1.	1 Total (Sandaramoorting	Thermodynamics		
		Short Term Course on 'Introduction to		
2.	Prof.A.Selvaraj	Industrial Vibration Problems and their		
		Solutions'		
3.	Dr.R.M Arunachalam	Patent awareness		
4.	Drof N. Elongo	FDP on CAD / CAE / CAM and IT in		
4.	Prof.N.Elango	'Product Development and Discrete		
		Manufacturing'		
5.	Prof.N.Sundaramoorthy	FDP on Heat and mass transfer		
6.	Prof.PMarimuthu	Training Programme on 'Lean		
		Manufacturing'		

ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Name of the Faculty	Programme Attended
1.	Prof. M.Senthil Kumar	IEEE Faculty development program on software tools for simulation and
		analysis of power system
2.	Dr.S.Poorani	Challenges in Smart grid Renewable resources
3.	Mr. K. S.Sriraj Kumar	Pedagogy Training Program, Sona College of Technology

S.No	Name of the Faculty	Programme Attended
	Mr. V. Shanmuga	Pedagogy Training Program, Sona
4.	Sundaram	College of Technology
	Ye	ear 2008-2009
1.	Prof.M.Senthil Kumar	Indo – US training program
2.	Prof. R.Shiva kumar	Indo – US Training program
	Ye	ear 2007-2008
1.	Mr.G.Saravanan	Pedagogy Training Program, Sona
		College of Technology
2.	Mr.G.Suresh	Pedagogy Training Program, Sona
		College of Technology
3.	Mr.R.Satheesh Kumar	Pedagogy Training Program, Sona
		College of Technology
	Ye	ear 2006-2007
1.	Mr.B.Karthik	Pedagogy Training Program, Sona
		College of Technology
		Pedagogy Training Program, Sona
2.	Mr.G. Karthikeyan	College of Technology
3.	Mrs. M. Gopila	Pedagogy Training Program, Sona
		College of Technology
4.	Mrs. C.Santhana	Pedagogy Training Program, Sona
	Lakshmi	College of Technology
5.	Mrs. V. Lavanya	Pedagogy Training Program, Sona
		College of Technology

ELECTRONICS AND COMMUNICATION ENGINEERING (UG)

	Year 2010-2011		
S.No.	Name of the Faculty	Programme Attended	
1.	Dr.R.S.Sabeenian and Palanisamy V	International Journal of Computer Science and Applications (ISSN No. 0974-0767)	
2.	Dr.R.S.Sabeenian and Paramasivam.M.E	Second National Conference on Signal Processing, Communications and VLSI Design (NCSCV'10)	
3.	Ms.M.Anbuselvi	National conference on Folded FIR filter based on pipelined array Multiplex.	
4.	Prof.R.Vinod kumar	International Journal for Computer Application's	
5.	Ms.K.Vidhya	National conference on FPGA based fault detection and fault diagnosis in SRAM	
6.	Mr.A.Ayub Khan	National conference on Segmentation of ultra sound images using modified star kalman algorithm	
7.	Mr.A.Ayub Khan	National conference on Segmentation of blood vessels using spokes ellipse algorithm	

8. Mr.B.Prasad in fetal brain 9. Mr.B.Prasad National conference on Neural tube and central nervous systems defects in fetal brain 10. Dr.R.S.Sabeenian and Palanisamy V International Journal of Signal and Imaging Systems Engineering (IJSISE).Published by Inderscience. 11. Dr.R.S.Sabeenian and Palanisamy V International Journal of Information Technology & Knowledge Management (ISSN No. 0973-4414). 12. Dr.R.S.Sabeenian Engineering and Consumer Health Care Informatics. 13. Dr.R.S.Sabeenian. and Paramasivam.M.E International Journal of Biomedical Engineering and Healthcare informatics. 14. Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate Paramasivam.M.E (SonaLesa)	S.No.	Name of the Faculty	Programme Attended
9. Mr.B.Prasad and central nervous systems defects in fetal brain 10. Dr.R.S.Sabeenian and Palanisamy V 11. Dr.R.S.Sabeenian and Palanisamy V 12. Dr.R.S.Sabeenian Palanisamy V 13. Dr.R.S.Sabeenian and Paramasivam.M.E 14. Dr.R.S.Sabeenian, Dr.S.Sabeenian, Dr.S.Manickam & Engineering and Science Associate Paramasivam.M.E 15. Dr.R.S.Sabeenian 16. Dr.R.S.Sabeenian and Paramasivam.M.E 18. Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate (SonaLesa) 19. Dr.R.S.Sabeenian and Engineering and Science Associate (SonaLesa) 10. Dr.R.S.Sabeenian and Engineering and Science Computing EEE International Advance Computing EEE International E	8.	Mr.B.Prasad	National conference on Abnormalities in fetal brain
Dr.R.S.Sabeenian and Palanisamy V International Journal of Information Technology & Knowledge Management (ISSN No. 0973-4414). Dr.R.S.Sabeenian Palanisamy V International Journal of Biomedical Engineering and Consumer Health Care Informatics. Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate (SonaLesa) Dr.R.S.Sabeenian Dr.R.S.Sabeenian & EEE International Advance Computing	9.	Mr.B.Prasad	and central nervous systems defects in
10. Palanisamy V Imaging Systems Engineering (IJSISE).Published by Inderscience. International Journal of Information Technology & Knowledge Management (ISSN No. 0973-4414). Dr.R.S.Sabeenian Palanisamy V International Journal of Biomedical Engineering and Consumer Health Care Informatics. Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate Paramasivam.M.E (SonaLesa) Dr.R.S.Sabeenian Dr.R.S.Sabeenian Dr.R.S.Sabeenian, National Journal of Sona Consumer Engineering and Healthcare Informatics. Dr.R.S.Sabeenian, National Journal of Sona Consumer Engineering and Science Associate Paramasivam.M.E EEE International Advance Computing		Dr R S Saheenian and	International Journal of Signal and
International Journal of Information Technology & Knowledge Management (ISSN No. 0973-4414). Dr.R.S.Sabeenian Palanisamy V International Journal of Biomedical Engineering and Consumer Health Care Informatics. Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian, National Journal of Biomedical Engineering and Healthcare informatics. Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate (SonaLesa) Dr.R.S.Sabeenian Dr.R.S.Sabeenian EEE International Advance Computing	10.		Imaging Systems Engineering
Dr.R.S.Sabeenian and Palanisamy V Dr.R.S.Sabeenian Technology & Knowledge Management (ISSN No. 0973-4414). Dr.R.S.Sabeenian Engineering and Consumer Health Care Informatics. Dr.R.S.Sabeenian and Paramasivam.M.E Dr.R.S.Sabeenian, National Journal of Biomedical Engineering and Healthcare informatics. Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate Paramasivam.M.E Dr.R.S.Sabeenian (SonaLesa) EEE International Advance Computing EEE International Advance Computing Careforence (LACC) 2010)		Turamsumy V	(IJSISE).Published by Inderscience.
Palanisamy V Management (ISSN No. 0973-4414). Dr.R.S.Sabeenian Palanisamy V International Journal of Biomedical Engineering and Consumer Health Care Informatics. Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian, National Journal of Sona Language Informatics. Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate Paramasivam.M.E (SonaLesa) Dr.R.S.Sabeenian Dr.R.S.Sabeenian EEE International Advance Computing			International Journal of Information
Dr.R.S.Sabeenian Dr.R.S.Sabeenian Dr.R.S.Sabeenian Dr.R.S.Sabeenian Dr.R.S.Sabeenian. and Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian, Dr.S.Manickam & Engineering and Science Associate Paramasivam.M.E (SonaLesa) EEE International Advance Computing	11.	Dr.R.S.Sabeenian and	Technology & Knowledge
Dr.R.S.Sabeenian Palanisamy V Engineering and Consumer Health Care Informatics. Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian Engineering and Consumer Health Care Informatics. International Journal of Biomedical Engineering and Healthcare informatics. Engineering and Science Associate (SonaLesa) Dr.R.S.Sabeenian Engineering and Consumer Health Care Informatics. Engineering and Healthcare informatics. Engineering and Healthcare informatics. Engineering and Healthcare informatics.		Palanisamy V	Management (ISSN No. 0973-4414).
Palanisamy V Engineering and Consumer Health Care Informatics. Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate Paramasivam.M.E (SonaLesa) EEE International Advance Computing Careformuse (IACC 2010)		D. D. C. Cl	International Journal of Biomedical
Dr.R.S.Sabeenian. and Paramasivam.M.E Dr.R.S.Sabeenian. and Engineering and Healthcare informatics. Dr.R.S.Sabeenian, National Journal of Sona Language Dr.S.Manickam & Engineering and Science Associate Paramasivam.M.E (SonaLesa) Dr.R.S.Sabeenian EEE International Advance Computing	12.		Engineering and Consumer Health
Dr.R.S.Sabeenian. and Paramasivam.M.E Engineering and Healthcare informatics. Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate Paramasivam.M.E (SonaLesa) Dr.R.S.Sabeenian Engineering and Healthcare informatics. Engineering and Science Associate Paramasivam.M.E (SonaLesa) EEE International Advance Computing			Care Informatics.
Paramasivam.M.E informatics. Dr.R.S.Sabeenian, National Journal of Sona Language 14. Dr.S.Manickam & Engineering and Science Associate Paramasivam.M.E (SonaLesa) 15. EEE International Advance Computing		Dr.R.S.Sabeenian. and	International Journal of Biomedical
Dr.R.S.Sabeenian, Dr.R.S.Sabeenian, National Journal of Sona Language Engineering and Science Associate Paramasivam.M.E (SonaLesa) Dr.R.S.Sabeenian EEE International Advance Computing	13.	Paramasivam.M.E	Engineering and Healthcare
14. Dr.S.Manickam & Engineering and Science Associate Paramasivam.M.E (SonaLesa) 15. EEE International Advance Computing Or.R.S.Sabeenian			informatics.
Paramasivam.M.E (SonaLesa) 15. Dr.R.S.Sabeenian Engineering and Science Associate (SonaLesa) EEE International Advance Computing		Dr.R.S.Sabeenian,	National Journal of Sona Language
Dr.R.S.Sabeenian EEE International Advance Computing	14.	Dr.S.Manickam &	Engineering and Science Associate
Dr.R.S.Sabeenian EEE International Advance Computing		Paramasivam.M.E	(SonaLesa)
Dr.R.S.Sabeenian	15.		EEE International Advance Computing
T and M. D. aramasiyani i		Dr.R.S.Sabeenian	
		and wild.Faramasivam	

S.No.	Name of the Faculty	Programme Attended
16.	Dr.R.S.Sabeenian	2010 IEEE International Advance
	and .E.Paramasivam	Computing Conference (IACC 2010)
17.		IEE E Springer International
	Dr.R.S.Sabeenian	Conference on Advances in Information
	and M.E.Paramasivam	and Communication Technologies ICT
		2010
18.	Dr.R.S.Sabeenian	Accepted for IEEE International
		Conference on Advances in
	and P.Sabarinath	Communication, Network and
		Computing CNC 2010 at
19.		Accepted for IEEE International
	Dr.R.S.Sabeenian	Conference on Advances in
	and P.M.Dinesh	Communication, Network and
		Computing CNC 2010
20.	Dr.R.S.Sabeenian	Accepted for IEEE Springer
	and M.Vidhya	International Conference on Advances
	·	in Information and Communication
21.	Prof. D.Jayanthi	Presented a paper Design Style For
		Asynchronous Pipeline Controller on
		international conference ICICT
22.	Mrs.S.Deepa	Workshop on ESDN laboratory
23.	Mr.A.Ayubkhan	Workshop on ESDN laboratory
24.		Workshop on Bio medical signal
	M.Senthil Vadivu	
		processing
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	Year 2009-2010		
S.No.	Name of the Faculty	Programme Attended	
1.	Mr.S.Sree Southry	Workshop on Image processing based	
		on lab view	
2.	Prof.R.S.Sabeenian	International Conference on Bio	
	& Dr.V.Palanisamy	medical Signal Processing	
3.	Prof.R.S.Sabeenian	International Conference on Bio	
	M.E.Paramasivam	medical Signal Processing	
4	Mrs. S.Deepa	Workshop on current trends in	
4.		measurement techniques and MPLS	
		(National)	
5.	Mr.N.s.Yoganathan	Staff development programme on	
		CMOS Emerging technologies	
6.	Mr.B.Thiyaneswaran	Workshop on image processing and	
		pattern recognition	
7.	Mr.J.P.Senthil Kumar	Workshop on Recent trends in high	
		data rate wireless communication	
8.	Mrs.K.R.Kavitha	Workshop on The past & future of	
0.		Integrated Circuit technologies	
	Prof.M.Sumathi	International Conference on Optics&	
9.		Photonics	
	Prof.B.Gopi	Workshop on Semiconductors :	
10.		Micro to Nano	

S.No.	Name of the Faculty	Programme Attended
11.	Prof.B.Gopi	Workshop on nano science and Technology
12.	Mrs.M.Susaritha	FDP on Induction Training for young teachers
13.	Prof.R.Vinod Kumar	National Conference on A method to Improve the performance of AODV in MANET
14.	Ms.T.Premakumari	National Conference on Multi Threading Techniques for improving error tolerance
15.	Mrs.M.Susaritha	National Conference on Deep Pipe lining for High performance floating point course
16.	Ms.A.P.Jaya Karishna	National Conference on Deduction and Correction of Extraction errors in high performance circuits
17.	Mrs.S.Lavanya	National Conference on FPGA implementation of an Encryption
18.	Dr.M.Sumathi & Mr.R.Pratheep	National Conference on Intensity based Fiber Optic Deflection Sensor
19.	Dr.M.Sumathi & Mr.R.Pratheep	International Conference on Optics and Photonics

S.No.	Name of the Faculty	Programme Attended
20.	Dr.R.S.Sabeenian and Palanisamy V	National Conference on 'Disease Identification in CT images using MRCSF'
21.	Dr.R.S.Sabeenian and M.E.Paramasivam	National Conference on 'Fusion of Multi-sensor Medical Images using Discrete Wavelet Transform'
22.	Dr. M.Sumathi and Dr. P.T.Vanathi	International Journal of Communication Networks and Distributed Systems
23.	Dr.R.S.Sabeenian. and Palanisamy V	International Journal of Medical Engineering and Informatics (IJMEI)
24.	Dr.R.S.Sabeenian and Palanisamy V	International Journal of World Academy of Science, Engineering and Technology, WASET (ISSN 2070-3740)
25.	Dr.R.S.Sabeenian and Palanisamy V	Published a journal 'Texture Based Medical Image Classification of Computed Tomography images using MRCSF' on International conference
26.	Prof.R.Vinod Kumar	International Conference on ICVCom 2009

Year 2008-2009		
S.No.	Name of the Faculty	Programme Attended
1.	Mrs.M.Jamunarani	Staff Development programme
2.	Ms.K.Vidhya	Staff Development programme
3.	Mr.P.Yuvaraj	Staff Development programme
4.	Mrs.D.P.Sangeetha	Staff Development programme
5.	Mr.M.E.Paramasivam	Workshop on System level solution corporation, gujarat
6.	Prof S.Karthigai Lakshmi	Orientation program on research
7.	Prof M.Sumathi	Workshop on Optical Course and network design & Modelling
8.	Ms.T.Premakumari	Workshop on NETFPGA
9.	Prof B.Gopinath	FDP on Altera Technical Training
10.	Prof Vinodkumar	FDP on Research issues in computer networking
11.	Mrs.Karthigai lakshmi	Staff Development programme
12.	Mrs.Chinnammal	Staff Development programme
13.	Mr.N.S.Yoganathan.	Staff Development programme
14.	Ms.Gnanambigai	Staff Development programme

S.No.	Name of the Faculty	Programme Attended
15.	Mr.S.Sreesouthry	Staff Development programme
16.	Mr.K.Anguraj	National Seminar on Emerging Trends in
	M. D.W. II.	Embedded Controller & its applications
17.	Mr.B.Vidhyapathi Prof.A.Allirani	N-4:1 Cf An Finance
1 /.	Proi.A.Allirani	National Conference on An Energy
		Sorting Protocol (ESP) with low Energy
		and Low Latency in Wireless Sensor
		Network
18.	Mr.N.S.Yoganathan	FDP on Testing of VLSI circuits
19.	Mr.N.S.Yoganathan	National Conference on Rout ability
		improvemen5rt in VLSI
	Yea	r 2007-2008
	Ms.A.Allirani(HOD)	
	Mr.R.S.Sabeenian(AP)	International conf.on advanced
1.	Mr.M.E.Paramasivam	Computing Commn
	(RA)	
2.	Prof.B.Gopi	Workshop on Research approaches and
		Research strategy
3.	Prof.B.Gopi	Seminar on Asic design and
		Verification using system verilog
4.	Mr.K.Anguraj	Staff Development programme
5.	Ms.M.Anbuselvi	FDP on teaching methodology in
		engineering subjects

S.No.	Name of the Faculty	Programme Attended
6.	Ms.T.Premakumari	FDP on Effective teaching
7.	Ms.T.Premakumari Mrs.D.Jayanthi	Workshop on trends in VLSI and ASIC Designs
0	Mr.M.E.Paramasivam	Workshop on Research approaches &
8.	Mrs.M.Sumathi Mrs.G.Nirmala priya	strategy
9.	Mr.K.Anguraj	Workshop on Computer networks
10.	Mr.A.Ayubkhan	PCB Designing
11.	Mr.B.Prasad Mr.J.P.Senthil kumar	Staff Development programme
12.	Mr.B.Thiyaneswaran	Staff Development programme
13.	Mrs.K.R.Kavitha	Staff Development programme
14.	Mrs.D.Jayanthi	FDP on VLSI
15.	Mrs.D.Jayanthi	Workshop on modeling, simulationof digital s/m using HDLs
16.	Mrs.D.Jayanthi	Workshop on Modeling, simulation and synthesis of digital system using HDL
17.	Mrs.G.Nirmala priya	Workshop on 'soft computing'.
18.	Mrs.M.Sumathi	Workshop on Optical fibre communication and networks.

S.No.	Name of the Faculty	Programme Attended
19.	Mr.B.Thiyaneswaran	Technical Seminar on MCNE
	Mr.R.S.Sabeenian	
20.	Mr.A.Ayubkhan	Workshop on Modern electronic test &
	Mr.C.Manikandan	Measuring Equipment
21.	Prof.D.Jayanthi	Workshop on ASIC Design and
		verification using system verilog
22.	Prof.M.Sumathi	Workshop on Oppertunities of Govt.
		Funded R&D Projects for Engg. Education
		Institution
23.	Prof.R.S.Sabeenian	Conference on image processing
		algorithm
	Year	2006-2007
1.	M.Sumathi	International conference on Resource
		Utilisation, Kongu Engg college, Erode
	R.Gowrisankar	
	R.Rameshkumar	
2.	T.Shanthi	Workshop on Advanced signal processing
	C.Punitha Selvi	
	K.Brinda	
3.	M.Angeline Cynthia	Workshop on Pattern recog & Image Processing

S.No.	Name of the Faculty	Programme Attended
4.	R.Gowrisankar	Workshop on Real time Simulation of
		DSB-SC Dmod.
5.	Prof.B.Gopi	Workshop on DSP tools & Practice
	R.Gowrisankar	
6.	M.E.Paramasivam	FDP On Wireless N/W
7	M.Sumathi	Workshop on Embedded Data
7.	M.E.Paramasivam	communication
8.	M.E.Paramasivam	Workshop on Computer networking
9.	M.E.Paramasivam	Workshop on Computer networking
		Laboratory
10.	R.S.Sabeenian	Workshop on Computer networking
		Laboratory
11.	Ms.S.Deepa	Workshop on networks lab
12.	Ms.P.Malini	Workshop on networks lab

COMPUTER SCIENCE AND ENGINEERING

	Year 2006-2010		
S.No	Name of the Faculty	Programme Attended	
1.	Dr. M. Usha	Workshop on "Multicore Programming" by INTEL at Bannariamman Institute of Technology ICT-ACT — Oracle Higher Education Intitative for Tamilnadu INDO US Collobration Seminar on "Effective Presentation Skill" Seminar on "Multimedia Computing and its Applications" Seminar on "Changing trends in Digital ERA:e-Resources awareness "SDP on "Data Mining"	
2.	Dr. B. Sathiyabhama	Workshop on Essential Strategies and Tools for research at Sona College of Technology. Workshop on SPSS 17.0 Workshop on Theory of Computation Workshop on Thesis Presentation using LaTeX Software Workshop on Computional Models, Tools and Techniques in Bioinformatics SDP on "Data Mining"	

S	Name of the Faculty	Programme Attended
No		
3.	Dr. J. Akilandeswari	Workshop on Mission 10-X by Wipro at Sona College of Technology. Workshop on Thesis Presentation using LaTeX Software ICT-ACT — Oracle Higher Education Intitative for Tamilnadu Workshop on SPSS 17.0
4.	Prof.A.C.Kaladevi	Workshop on "Multicore Programming" by INTEL at Bannariamman Institute of Technology RPP on Information Management SDP on "Research direction on Grid Computing" Pedagogy Training Programme at Sona College of Technology

S	Name of the Faculty	Programme Attended
No		
5		ISTE Workshop for Effective Teaching and Learning of Computer Programming, at Sona College of Technology, Workshop on Essential Strategies and Tools for research at Sona College of Technology Workshop on SPSS 17.0
6	Prof .J. Jayanthi	INDO US Collobration Workshop on SPSS 17.0 FDP on Trends and Software Testing Workshop on Essential Strategies and Tools for research at Sona College of Technology STTP on "Software Quality"
7.	Prof. V. Nandini	Pedagogy Training Programme at Sona College of Technology SDP on "Data Mining" Seminar on Bloom's Taxonomy at Vivekanandha Engineering College.

S	Name of the Faculty	Programme Attended
No		
8.	Prof.D. Balamurugan	Pedagogy Training Programme at SonaCollege of Technology ISTE Workshop for Effective Teaching and Learning of Computer Programming, at Sona College of Technology
9	Prof.PonHarsha vardhanan	Pedagogy Training Programme at Sona College of Technology
10	Prof.R.C.Narayanan	Pedagogy Training Programme at Sona College of Technology, J2EE And Best Practices in Application Development, at Anna University of Technology, Coimbatore. ISTE Workshop for Effective Teaching and Learning of Computer Programming, at Sona College of Technology National Seminar on Data Mining and Data Warehousing SDP on "Wireless and Mobile Networks" SDP on "Programming in C# & .NET" Workshop on Mission 10-X by WiproatSona College of Technology. FDP on "Student Psyche"

S	Name of the Faculty	Programme Attended
No		
		Pedagogy Training Programme at Sona
		ISTE Workshop for Effective Teaching and
		Learning of Computer Programming, at
11	Mr.A.Prithiviraj	Sona College of Technology SDP on
		"Wireless and Mobile Networks" J2EE
		And Best Practices in Application
		Development,at Anna University of
		Technology, Coimbatore.
		Short Term Training Program on
		"Enterprise Resource Planning" at
	Ms. R. Subhashini	SonaCollege of Technology
12		SDP on "Wireless and Mobile Networks
		Workshop on "Research Approches and
		Research Strategies"Seminar on Bloom's
		Taxonomy at Vivekanandha Engineering
		College.Pedagogy Training Programme at
		Sona College of Technolog SDP on "Data
		Mining" SDP on "Teaching Learning
		Process" Workshop on Essential Strategies
		and Tools for Research at Sona College of
		Technology

S	Name of the Faculty	Programme Attended
No		
13	Ms. T. Sathiya	Seminar on "Course Redesign through Blender Learning" STTP on "Software Quality" Pedagogy Training Programme at Sona College of Technology
14.	Ms.K.C.Rajeswari	Seminar on Bloom's Taxonomy at Vivekanandha Engineering College FDP on "An Overview of Effective Teaching" Pedagogy Training Programme at Sona College of Technology
15.	Ms. S. Anitha Elavaras	Insight'09 SDP on "Data Mining" Pedagogy Training Programme at Sona College of Technology
16.	Ms.S.Lavanya	FDP on Computer Architecture
17.	Ms.A.K.Ilavarasi	Workshop on "Multicore Programming" by INTEL at Bannariamman Institute of Technology

S	Name of the Faculty	Programme Attended
No		
18.	Mr.P.S.Prakash	Pedagogy Training Programme at Sona
		College of Technology
19.	Mr.J.Dhayanithi	Pedagogy Training Programme at Sona College of Technology.ISTE Workshop for Effective Teaching and Learning of Computer Programming, at Sona College of TechnologySDP on Empowering Teachers for Enhancing SC/ST Students Employability
20.	Mr.B.Galeebathullah	Workshop on "Multicore Programming" by INTEL at Bannari Amman Institute of Technology
21	Ms.T.Yuvarani	Pedagogy Training Programme at Sona College of Technology.ISTE Workshop for "Effective Teaching and Learning of Computer Programming", at Sona College of Technology

S	Name of the Faculty	Programme Attended
No		
22.	Ms.P.Ramya	Short Term Training Program on "Enterprise Resource Planning" at Sona College of Technology. J2EE And Best Practices in Application Development, at Sona College of Technology. ISTE Workshop for Effective Teaching and Learning of Computer Programming, at Sona College of Technology FDP on Computer Architecture FDP on "An overview of Effective Teaching" Pedagogy Training Programme at Sona College of Technology

INFORMATION TECHNOLOGY

	Year 2009-2010			
S. No	Name of the Faculty	Programme Attended		
1.	Mr.K.Thangaraj Lecturer	Wireless and Mobile Networks		
2.	Mr.N.Sampath Kumar Sr. Lecturer	Entrepreneurship		
3.	Mr. K. Karthick, RA	FOSS		
4.	Mr.P.Shanmugaraja. Asst. Professor	Leveraging Technology for Effective Teaching in the		
5.	Mr.J.L.AldoStalin Lecturer	Classroom and Beyond Theory of Computation		
6.	Mr. M. Venkatesh Tr. Lecturer Ms. C. Kavitha – Tr. Lecturer.	Pedagogical Training Programme		
7.	Mr. Aldo Stalin Lecturer	Deep Dive Faculty Enablement programme		
8.	Mr. C. Selvaraj, Asst. Professor	Mat Lab Training Seminar		

S.					
No	Name of the Faculty	Programme Attended			
	Mr. M. Senthilkumar				
9.	Ir Programmer	Essentials of .NET			
	Jr. Programmer				
10.	Mr.K.Thangaraj, Lecturer	IEI Election Software			
	N. M.	2000			
	Year 2008-2009				
1.	Mr. N. Sampath Kumar,	Entrepreneurial Development			
1.	Senior Lecturer				
	Mr. C. Salvarain				
2.	Mr. C. Selvaraju, Asst. Professor.	.Net and C#			
	ASSI, Professor.				
3.	Mr. R. Rajagopal.	Best Practices in Software Project			
	Lecture	Management			
	Ms. P. Pabitha.				
	Asst. Professor and	Train the Trainer Program on "Web			
4.		Development using IBM Tools.			
	Ms. P. Indira Priya.	Development using IBW 1001s.			
	Part-Time Lecturer.				
	Mr. S. David Samuel	Hands on with APM: Drogramming			
5.	Azariya, Lecturer	Hands on with ARM: Programming			
	/ Zurryu, Decition	Embedded System			
6.	Ms.J. Akilandeswari.	Thesis preparation using LaTeX			
	A set Due fooss :	Software			
	Asst. Professor				

S.No	Name of the Faculty	Programme Attended	
7.	Ms. J. Velumani. Lecturer		
	Mr. R. Rajagopal. Lecturer	Pedagogical Training Programme	
	Mr. J. Aldo Stalin. Lecturer		
	Ms. M. Navabarathy. Sr.		
	Lecturer		
8.	Ms. S.Vijayalakshmi.	n 1 · 17 · · n	
0.	Lecturer	Pedagogical Training Programme	
	Mr. M. Mailsamy. Lecturer		
	Ms. D. Poorani. Lecturer.		
9.	Ms. J. Akilandeswari.		
	Asst. Professor	Introduction to SPSS 17.0	
10.	Mr. R. Vinodh Kumar,		
10.	Network Administrator.	CCNP Training Programme	
11.	Mr.Karthick.K. Research	Hands on with ARM: Programming	
	Assistant	Embedded System	
12.	Mr. S. David Samuel	Embedded Linux Kernel and Driver	
	Azariya, Lecturer	Development	
13.	Mr. T. Palanisamy.	Programme Officers Meet and First	
	Lecturer/ NSS Programme	Aide Training	
	Officer		

S	Name of the Faculty	Programme Attended
No		
	Mr. S. David Samuel	
14.	Azariya, Lecturer.	Programming with Python
	Mr. P. Iyyanar, Lecturer.	
	Mr. S. David Samuel	
15.	Azariya, Lecturer.	MySQL on Linux
	Mr. P. Iyyanar, Lecturer.	
	Mr. S. David Samuel	
16.	Azariya, Lecturer.	Programming with PHP
	Mr. P. Iyyanar, Lecturer.	
	Mr.S.DavidSamuelAzariy,	
17.	Lecturer.	Programming with PHP
	Mr. P. Iyyanar, Lecturer.	
	Mr. M. Venkatesh.	
18.	Tr. Lecturer	Web Services & SOA
	Year 2	2007-2008
	Ms. D. Jamuna Devi.	VLSI Design
1.		0
	Sr. Lecturer	

S	Name of the Faculty	Programme Attended
No		
2.	Ms. R. Lavanya. Lecturer. Ms. M. Farhana Mobin. Lecturer. Ms. G. Jayakokila. Lecturer.	Pedagogical Training Programme
3.	Ms. S. Rama. Lecturer. Ms. R. Selvarani. Lecturer. Mr. T. Palanisamy. Lecturer.	Pedagogical Training Programme
4.	Mr. N. Sampath Kumar	Management Training Programme on "Managerial Effectiveness Competencies"
5.	Mr. R. Vinodh Kumar, Network Administrator	DCNE (Dax Certified Network Engineer) Training - Comprehensive Technical Training on "Switching and Routing"

	Year 2006-2007		
S	Name of the Faculty	Programme Attended	
No			
1.	Prof. B. Saravanen	Management of Engineering Colleges	
		for Quality Education	
2.	Prof. S. R. Chickerur.	Neural Networks	
	Prof. S. Sakthivel.		
3.	Prof. K. V. Shanthi.	Computer Organisation & Architecture	
	Prof. S. Vasanthi		
	Mr. P. Iyyanar	Pedagogical Training	
4.	Ms. S. Shobhana Devi		
	Ms. M. Farhana Mobin		
5.	Ms. M. Amutha,	Over view on effective teaching	
	Lecturer		
6.	Mr. Madhavan. P	Teaching Methodology in Engineering	
		Subjects	
	Ms. R. Lavanya		
	Ms. I. Vishnu Suba		
7.	Ms. R. C. Geeta	Objective based instruction in higher	
7.	Ms. S. Rama	education	
	Ms. S. Sathiya Priya		
	Ms.M.G. Vijayalakshmi		
8.	Mr. T. Palanisamy	Micro Controllers for Embedded and Application	

S.No	Name of the Faculty	Programme Attended
9.	Prof. P. Shanmugaraja	Infosys Campus Connect Regional meet
10.	Prof. G. Prakash	Program on TTT – (Train the Trainer) on topic "Project Management"
	Prof. B. Saravanen	on topic Project Management
11.	Mr. P. Madhavan	Desktop Moksha Training

CIVIL ENGINEERING

	Year 2009-2010		
S.No	Name of the Faculty	Programme Attended	
1.	Prof. M. N. Sivashanmugam	Traffic Engineering and Management (June 2009) College of Engineering, Anna University, Chennai	
2.	Prof.A.Murugesan	Design of Steel Structures (June 2009) College of Engineering, Anna University, Chennai	
3.	Dr.Vyshali	Introduction to ArcGIS II (Aug 2009) ESRI, New Delhi	
4.	Ms.N.Thilagavathi	Introduction to ArcGIS II (Aug 2009) ESRI, New Delhi	

S.No	Name of the Faculty	Programme Attended
5.	Ms.N.Thilagavathi	Computer Applications in Modern Electronic Surveying (Oct 2009) Government College of Engineering, Salem
6.	Prof.A.Murugesan	Refresher Course on IS 800-2007 (Nov 2009) Thiagarajar Polytechnic College, Salem
7.	Ms.R.S.Gandhimathi	Refresher Course on IS 800-2007 (Nov 2009) Thiagarajar Polytechnic College, Salem
8.	Mr.S.Thitumurugan	Refresher Course on IS 800-2007 (Nov 2009) Thiagarajar Polytechnic College, Salem
9.	Mr.J.Vikram	Refresher Course on IS 800-2007 (Nov 2009) Thiagarajar Polytechnic College, Salem
10.	Dr.Vyshali	Effective Teaching Methodologies – Statics (May 2010) National Institute of Technology Karnataka, Surathkal

S	Name of the Faculty	Programme Attended
No		
11.	Prof.A.Murugesan	STAAD.Pro, SAP, ETABS, Primavera, MS Project & other Applications in Civil Engineering (May 2010) CIT – Coimbatore.
12.	Dr.S.Suresh	Geographic Information System (GIS)Jayam College of Engineering, Dharmapuri (July 2010)
13.	Ms.N.Thilagavathi	MISSION 10X Sona College of Technology
	Y	fear 2008-2009
1.	Prof.A.Murugesan	Modern Surveying (Total Station & GPS) (July 2008) National Institute of Technical Teachers Training & Research, Chennai
2.	Ms.N.Thilagavathi	Modern Surveying (Total Station & GPS) (July 2008) National Institute of Technical Teachers Training & Research, Chennai
3.	Ms.A.Gulshan Taj	Disaster Management and Earthquake Resistant Structures (July 2008) National Institute of Technical Teachers Training & Research, Chennai

S	Name of the Faculty	Programme Attended
No		
		Modern Construction Materials and
4.	Prof.P.M.Shanmuga	Techniques (Aug2008) National
	Vadivu	Institute of Technical Teachers
		Training & Research, Chennai
		Modern Construction Materials and
5.	Ms.K.Vidhya	Techniques (Aug 2008) National
٥.	ivis.K. v idiiya	Institute of Technical Teachers
		Training & Research, Chennai
		Geoinformatics for Integrated Coastal
	Dr.Vyshali	Zone Management (Jan 2009)
6.		National Institute of Technology
		Karnataka, Surathkal
	Ms.A.Gulshan Taj	Limit State Design of Steel Structures
7.		using IS: 800 - 2007 (Feb 2009)
		Government College of Engineering,
		Salem
	D. CAM	Disaster Resistant Structural Design
8.	Prof.A.Murugesan	(Feb 2009) College of Engineering,
		Anna University, Chennai
9.	D CDMCI	Design of Steel Structures - Limit
	Prof.P.M.Shanmuga	State Method IS 800 – 2007 (May
	vadivu	2009) Kongu Engineering College,
		Erode

S	Name of the Faculty	Programme Attended
No		
	Yes	ar 2007-2008
1.	Prof.A.Murugesan	Basics of Dynamics and Aseismic
		Design (June 2007) Kongu
		Engineering College, Erode
) () (m)	Geographic Information System (July
2.	Ms.M.Thanmanaselvi	2007) National Institute of Technical
		Teachers Training & Research,
		Chennai
		Remote Sensing Techniques and
	36 37 771 11 41	Applications (Nov 2007) VLB Janaki
3.	Ms.N.Thilagavathi	Ammal College of Engineering and
		Technology, Coimbatore
	Yea	ar 2006-2007
		Investigation for Water Resources
1.	Dr.G.N.Mallikarjuna Rao	Projects – Use of Total Station &
	21. S.1 () Idamining and The	GPS (June 2006) Engineering Staff
		College of India, Hyderabad
		Soft Computing Techniques for
		Engineering Application (July 2006)
2.	Dr.S.Suresh	Alagappa Chettiar College of
		Engineering and Technology,
		Karaikudi
		Steel Concrete Composite Structures
3.	Ms.K.Vidhya	(Sep 2006) Kumaraguru College of
		Technology, Coimbatore

S	Name of the Faculty	Programme Attended
No		
		Earthquake Resistance Design of
4.	Prof.A.Murugesan	Concrete Structures (Oct 2006)
		Indian Institute of Science, Bangalore
		Software Applications in Civil
5.	Ms.I.Vidhyavathi	Engineering (Nov 2006) Government
		College of Technology, Coimbatore
		Special Concretes (Dec 2006) Indian
6.	Ms.K.Vidhya	Institute of Technology Madras,
		Chennai
		Special Concretes (Dec 2006) Indian
7.	Ms.K.Vidhya	Institute of Technology Madras,
		Chennai
		Municipal Solid Waste Management
8.	Ms.S.P.Shanmuga Priya	(Dec 2006) College of Engineering,
		Anna University, Chennai
	Yea	r 2005-2006
	Prof. A. Murugesan	Emerging Potential of Steel Composites
1		as Powerful Alternative in Construction
1.		Industry (Feb 2005) SRM Institute of
		Science and Technology, Chennai
	Prof. A. Murugesan	Astronomy (Related to Surveying – II
2.	- 101.11.11.11.11.11.11.11.11.11.11.11.11.	& Survey Camp) (Nov 2005) Bannari
		Amman Institute of Technology,
		Sathyamangalam

FASHION TECHNOLOGY

Year 2009-2010		
S. No	Name of the Faculty	Programme Attended
1.	Dr. C. V. Koushik	3rd ITEC International Textile education Conference, SSM CollegeInternational Conference "ATNT" BIT
2.	S. Anita	International Conference"ATNT " BIT
3.	C.Prakash	3rd ITEC International Textile Education Conference, SSM College
4.	D. Raja	3rd ITEC International Textile Education Conference, SSM College
5.	S. Chinnadurai	Pedagogy, Sona College of Technology, Salem
	Yes	ar 2008-2009
1.	D. Raja	Pedagogy, Sona College of Technology, Salem International Conference"ATNT , Avinashilingam Deemed University
2.	C.Prakash	International Conference"ATNT , Avinashilingam Deemed University

Name of the Faculty	Programme Attended
M. Yuvarani	Pedagogy, Sona College of Technology, Salem
M. Sri Vidhya	Structural Properties of Textile fibers (SDP) (AICTE Sponsored), Bannari Amman Institute of Technolgy, Sathyamangalam
Yea	ar 2007-2008
Dr. C. V. Koushik	International Conference ATNT- KCT
G.Gunesekaran	International Conference ATNT- KCT
V.Ramesh babu	International Conference ATNT- KCT
C. Prakash	National Conference Functional Textiles and Apparels – SSM college
D. Tamilalagan	Pedagogy, Sona college of Technology Salem. IPR Awareness Programme, Sona college of Technology, Salem
M. Sri Vidhya	Pedagogy, Sona college of Technology, Salem. IPR Awareness Programme, Sona college of Technology, Salem
	M. Yuvarani M. Sri Vidhya Yea Dr. C. V. Koushik G.Gunesekaran V.Ramesh babu C. Prakash D. Tamilalagan

SNo	Name of the Faculty	Programme Attended	
	Year 2006-2007		
1.	C.V.Koushik	International Conference"Advances In Fibrous Materials, Non Woven and Technical Textiles" SSM College of Engineering, India and Texas Tech University, USA at Coimbatore First International Textile Educational Conference, SSM College	
2.	G. Gunesekaran	National-Level Conference (NFTA '06) PSG College of Technology International Conference "Advances In Fibrous Materials, Non Woven and Technical Textiles" SSM College of Engineering, India and Texas Tech University, USA at Coimbatore	

S.No Name of the Faculty	Programme Attended
Te CC Te Te Te On Fa Sc CC Te	edagogy Training, Sona College of echnology, SalemNational-Level onference (NFTA '06) on Functional extile and Apparel, PSG College of echnology National-Level Conference a Emerging Trends in, Fabrics, ashion and Finishes Kongu Arts and cience CollegeNational-Level onference (NSFC'06) deciality Finishes on Garments KSR ollege of Technology deternational Conference Textiles and othing, Sardar Vallabhai Institute of extile Management dernational Conference "Advances In grous Materials, Non Woven and chnical Textiles" SSM College of egineering, India and Texas Tech giversity, USA at Coimbatore

S.No	Name of the Faculty	Programme Attended
		International Conference "Advances
		In Fibrous Materials, Non Woven and
4.	M. Senthilkumar	Technical Textiles" SSM College of
٦.	W. Sellullikulliai	Engineering, India and Texas Tech
		University, USA at Coimbatore
		National-Level Conference, BIT
		International Conference "Advances In
5.	P.Dhanapal	Fibrous Materials, Non Woven and
		Technical Textiles" SSM College of
	K.Saravanan	Engineering India and Texas Tech
6.		First International Textile Educational
		Conference, SSM College

ELECTRICAL and COMMUNICATION ENGINEERING (PG)

	Year 2009-2010		
S.No.	Name of the Faculty	Programme Attended	
1.	Mr.A.Radhakrishnan	Pedagogy training Programme	
2.	Mrs. V. Meenakshi	Pedagogy training Programme	
	Year 2008-2009		
1.	Mr. C. Arunkumar	Pedagogy training Programme	

S.No	Name of the Faculty	Programme Attended	
2.	Mrs. N. Sasirekha	Pedagogy training Programme	
3.	Mr. G. Ravi	Pedagogy training Programme	
	Yea	ar 2007-2008	
1.	Dr. K. R. Kashwan	Staff Development Programme	
	Year 2006-2007		
1.	Mr. J. Harirajkumar	Pedagogy training Programme Faculty Development Programme	
2.	Mrs. T. Loganayagi	Pedagogy training Programme	
3.	Mr. S. Dhanasekar	Pedagogy training Programme	

MASTER OF BUSINESS ADMINISTRATION

Year 2009-2010		
S.No.	Name of the Faculty	Programme Attended
1.	Dr. M. Selvaraj	FDP on Disaster Management
2.	-do-	Four day programme in Leadership Development
3.	-do-	FDP on Bloom's Taxonomy
4.	-do-	Programme on Structural Equation Modelling
5.	Dr. A. Rajagopal	AICTE sponsored SDP on Wireless and Mobile Networks
6.	-do-	FDP on Bloom's Taxonomy
7.	-do-	Programme on Neuro Linguistic Programming
8.	-do-	Programme on Structural Equation Modelling
9.	Dr. Syed Ibrahim	FDP on Bloom's Taxonomy
10.	-do-	FDP on Bloom's Taxonomy
11.	Mr.Vijaykumar. N. Patel	Orientation programme on Industrial Expectations

S.No	Name of the Faculty	Programme Attended
12.	-do-	AIMA's 26 th National Management convention "Creating Lasting Value"
13.	-do-	HR Conclave 2009 – The changing Face of HR
14.	-do-	Programme on Neuro Linguistic Programming
15.	Ms. S. P.Thenmozhi	FDP on Art of writing Research Articles
16.	-do-	FDP on Bloom's Taxonomy
17.	-do-	FDP on Bloom's Taxonomy
18.	-do-	Programme on Neuro Linguistic Programming
19.	-do-	Programme on Structural Equation Modelling
20.	Ms. P.K. Anjani	FDP on Bloom's Taxanomy
21.	-do-	FDP on Bloom's Taxanomy
22.	-do-	Programme on Neuro Linguistic Programming
23.	-do-	Programme on Structural Equation Modelling

S.No	Name of the Faculty	Programme Attended
24.	Ms. S. Suja	FDP on Bloom's Taxanomy
25.	-do-	FDP on Bloom's Taxanomy
26.	-do-	Programme on Neuro Linguistic Programming
27.	-do-	Programme on Structural Equation Modelling
28.	Ms. L. Shankari	FDP on Bloom's Taxanomy
29.	-do-	FDP on Bloom's Taxanomy
30.	-do-	National Workshop on Application of Advanced research techniques
31.	-do-	Programme on Structural Equation Modelling
32.	-do-	Programme on Neuro Linguistic Programming
33.	Mr. D. Immanuel	FDP on Bloom Taxonomy
34.	Ms. P. Praba Devi	Two day seminar on Bloom's Taxonomy
35.	-do-	Managerial Effectiveness in Global Context
36.	-do-	Two day seminar on Bloom's Taxonomy

S.No	Name of the Faculty	Programme Attended
37.	Ms. R. N. Padma	FDP on Bloom's Taxonomy
38.	-do-	FDP on Bloom Taxonomy
39.	Ms. A. Sasirekha	FDP on Bloom's Taxonomy
40.	Ms.UmayaSalma Shajahan	FDP on Bloom's Taxonomy
41.	-do-	FDP on Bloom Taxonomy
42.	-do-	Programme on Neuro Linguistic Programming
43.	-do-	Programme on Structural Equation Modelling
44.	Ms. N. Nithya	AICTE Sponsored one week workshop on Case Teaching and Case Writing
45.	-do-	National Level Workshop - FDP on Application of Advanced Research Technique
46.	-do-	One day programme on Building Competitiveness in Higher Education: The TQM way
47.	-do-	FDP on Neuro Linguistic Programme(NLP) for Management Teachers

S.No	Name of the Faculty	Programme Attended
48.	-do-	FDP on Bloom Taxonomy
49.	-do-	Workshop on Creativity and Innovation
50.	-do-	Programme on Structural Equation Modelling
51.	Mr.Subramanian Venkataraman	FDP on Bloom Taxonomy
52.	Mr. K.P. Naachimuthu	FDP on Bloom Taxonomy
53.	Ms. C.V. Sujaritha	National Level Workshop - FDP on Application of Advanced Research
		Technique
54.	-do-	FDP on Bloom Taxonomy
55.	-do-	FDP on Bloom's Taxonomy
56.	-do-	Programme on Neuro Linguistic Programming
57.	-do-	Programme on Structural Equation Modelling
58.	Mr. A. S.Satish Kumar	FDP - AICTE Sponsored one week workshop on Case Teaching and Case Writing
59.	-do-	FDP on Bloom Taxonomy
60.	Mr. V. Padmanand	FDP on Bloom Taxonomy

S.No	Name of the Faculty	Programme Attended
61.	Mr. G. Padmanaban	Orientation program on Industrial Expectations
	Yes	ar 2008-2009
1.	Dr. Syed Ibrahim	Research design and use of statistical tools in management research
2.	-do-	AICTE Sponsored one week FDP on Financial Derivatives -IIM Kozhikode
3.	-do-	FDP on Dynamics of Management Consultancy
4.	Ms. S. P.Thenmozhi	FDP on Dynamics of Management Consultancy
5.	Ms. P. K. Anjani	Research design and use of statistical tools in management research
6.	-do-	Two day seminar onManaging HR during the Recent Downturn – Experiences of some of the Best Indian companies
7.	Ms. S. Suja	Research design and use of statistical tools in management research
8.	Mr. A. Stephen	FDP on Dynamics of Management Consultancy

S.No	Name of the Faculty	Programme Attended
9.	Ms. L. Shankari	Research design and use of statistical tools in management research
10.	-do-	AICTE Sponsored one week FDP on Financial Derivatives- IIM Kozhikode
11.	-do-	Research in Finance
12.	-do-	Empirical study on bank customer personality and customer attitude towards service quality – an innovative perspective - Innovative practices in management (IPM – 2009)
13.	Mr. D. Immanuel	Research design and use of statistical tools in management research
14.	-do-	AICTE Sponsored one week FDP on Research Methods in Management
15.	MS. P. Praba Devi	Second World Conference on Siddha Philosophy, Chennai
16.	Ms. Umaya Salma Shajahan	Research design and use of statistical tools in management research
17.	-do-	Workshop on Case Method of Teaching
18.	-do-	AICTE Sponsored one week FDP on Financial Derivatives - IIM Kozhikode

S.No	Name of the Faculty	Programme Attended						
19.	-do-	FDP on SAP Business One						
20.	Ms. N. Nithya	Research design and use of statistica tools in management research						
21.	-do-	Workshop on Case Methods of Teaching						
22.	-do-	FDP on SAP Business One						
23.	-do-	FDP on Dynamics of Management Consultancy						
24.	-do-	AICTE Sponsored one week FDP of Research Methods in Management						
25.	-do-	Three days FDP on Basic Research methods and Applications of SPSS						
26.	Ms. C.V. Sujaritha	Research design and use of statistical tools in management research						
27.	-do-	Workshop on Case Method of Teaching						
28.	Mr.K. P. Naachimuthu	Research design and use of statistical tools in management research						
29.	-do-	One day workshop on "Publishing in International Journals"						

S.No.	Name of the Faculty	Programme Attended					
30.	Ms. A. Sasirekha	Research design and use of statistical					
		tools in management research					
31.	Ms. R. Archana	Research design and use of statistical					
		tools in management research					
32.	Ms. S. Saraswathi	Research design and use of statistical					
		tools in management research					
33.	Mr.A.S.Satish Kumar	FDP on Teaching Pedagogy					
	Ye	ear 2007-2008					
1.	Dr. D. Dhananal	Participated in the "Regional Sumit on					
1.	Dr. D. Dhanapal						
2.	Dr. M. Selvaraj	Quality in Education" Six sigma green belt certification					
2.	Di. Wi. Selvaraj	Six signia green beit certification					
		National Seminar on National Knowledge					
3.	-do-	Commission's Recommendations on					
		Higher Education					
		Short term program on Intellectual					
4.	-do-	Short term program on Intellectual					
		property rights and patent system in India					
5	-do-	A study of employees engagement and					
5.	-uo-	retention strategies in textile mills with					
		reference to women apprentices					
		Infosys Campus Connect Soft Skills					
6.	Prof. R. David Rajesh	,					
		Training Workshop					

S.	Name of the Faculty	Programme Attended					
No.							
7.	Dr. Syed Ibrahim	Two day FDP on Enhancement and value					
		addition in management education: Case					
8.	Prof. Vijaykumar.N.	Two day programme on Psychometircs					
	Patel	and Competency Mapping					
9.	Ms. S. P.Thenmozhi	Bridge Course in Retail Management					
10.	-do-	Six sigma green belt certification					
11.	-do-	Infosys Campus Connect Soft Skills					
12.	Ms. S. P.Thenmozhi	Short term program on Intellectual					
		property rights and patent system in India					
13.	Ms. P. K. Anjani	Bridge Course in Retail Management					
14.	-do-	Six sigma green belt certification					
15.	-do-	Executive Education Programme on Strategic Management for Teachers: Foundation Course					
16.	-do-	Infosys Campus Connect Soft Skills					
		Training Workshop					
17.	-do-	AICTE Sponsored Quality Improvement					
		Programme on Current Trends in					
18.	Ms. S. Suja	Infosys Campus Connect Soft Skills					
		Training Workshop					
19.	Mr. A. Stephen	Two day programme on Psychometircs and Competency Mapping					
20.	Ms. L. Shankari	Six sigma green belt certification					

S.	Name of the Faculty	Programme Attended						
No								
21.	-do-	Executive Education Programme on Strategic						
22.	-do-	Management for Teachers: Foundation Course Infosys Campus Connect Soft Skills Training Workshop						
23.	-do-	Two day FDP on Enhancement and value addition in management education: Case method of teaching and case writing						
24.	Mr. D. Immanuel	Bridge Course in Retail Management						
25.	-do-	Six sigma green belt certification						
26.	-do-	UGC sponsored National Seminar on Consumer Behaviour: Current Trends and						
27.	Ms. P. Praba Devi	Bridge Course in Retail Management						
28.	-do-	One day workshop for Ph.D Scholars – Research Orientation. Public Review workshop						
29.	-do-	One day workshop for Ph.D Scholars – Research Orientation. Public Review						
30.	Ms. Umaya Salma Shajahan	workshop Six sigma green belt certification						
31.	-do-	Executive Education Programme on Strategic Management for Teachers: Foundation Course						

S.	Name of the Faculty	Programme Attended						
No								
32.	-do-	Two day FDP on Business Application Software						
33.	-do-	AICTE Sponsored Three weeks Induction Training Programme in Management for Young Teachers						
34.	Ms. N. Nithya	Pedagogy Training Programme						
35.	-do-	Six sigma green belt certification						
36.	-do-	Executive Education Programme on Strategic Management for Teachers: Foundation Course						
37.	-do-	Two day FDP on Business Application Software						
38.	Mr.K.P. Naachimuthu	Two days programme on Managerial Effectiveness competencies						
39.	-do-	Bridge Course in Retail Management						
40.	-do-	Three weeks induction training programme on Management for young teachers						
41.	-do-	MHRD / AICTE sponsored Summer School on Recent Development in Human Resource Management and Development						

S.	Name of the Faculty	Programme Attended					
No							
42.	Ms. R. Archana	Bridge Course in Retail Management					
43.	-do-	Two days programme on Managerial					
		Effectiveness competencies					
44.	-do-	Three weeks induction training programme on					
		Management for young teachers					
45.	-do-	Management teachers' programme on Strategic					
		Management					
46.	Ms. S. Sarawathi	Infosys Campus Connect Soft Skills Training					
		Workshop					
		Two day FDP on Enhancement & Value					
47.	-do-	addition in Management Education: Case					
		Method of teaching and case writing					
_	Year 2006-2007						
1.	Dr. D. Dhanapal	Participated in the "Regional Sumit on Quality					
	-	in Education"					
2.	Dr. M. Selvaraj	MDP on Manufacturing Excellence. Best					
		Practices of World Class Manufacturing					
		AICTE Sponsored one week International					
3.	-do-	workshop on Case Teaching and Case Writing					
4.	Prof. R. David Rajesh	Three days workshop on Training the Trainers					
5.	-do-	Management teachers' programme on					
		Strategic Management					
6.	-do-	FDP On Nuances of Strategy Implementation					
7.	Dr. J. Ashok	Management teachers' programme on					
		Strategic Management 172					
		1/2					

S.No	Name of the Faculty	Programme Attended					
8.	Prof. Vijaykumar. N.	Regional Summit on Quality in Education					
9.	Ms. S. P.Thenmozhi	Two day programme on Lean					
10.	Ms. S. Suja	Six sigma green belt certification					
11.	Mr. A. Stephen	Participated in the "Regional Sumit on Quality in Education"					
12.	-do-	AICTE Sponsored one week International workshop on Case Teaching and Case Writing					
13.	Ms. L. Shankari	Harmony in Diversity - Emerging competitiveness Paradigms					
14.	Mr. D. Immanuel	Executive Education Programme on Strategic Management for Teachers: Foundation Course					
15.	Ms. Umaya Salma Shajahan	Two day residential programme on Mentoring and Training methods					
16.	-do-	AICTE Sponsored one week International workshop on Case Teaching and Case Writing					
17.	-do-	Two day programme on Team Building and Leadership					
18.	Ms. A. Sasirekha	AICTE Sponsored one week International workshop on Case Teaching and Case Writing					

S.No	Name of the Faculty	Programme Attended						
19.	-do-	Two day programme on Team building &						
		Leadership						
20.	-do-	Two days programme on Mentoring and						
20.	-uo-	Training methods						
		MDP on Manufacturing Excellence. Best						
21.	-do-	Practices of World Class Manufacturing						
	Mr. K. P.	Participated in the "Regional Sumit on						
22.	Naachimuthu	Quality in Education"						
		International Conference, Convocation &						
	-do-							
23.								
		"Sustainable Development through						
		Holistic Education"						
24.	-do-	Three days workshop on Training the						
		Trainers						
25.	-do-	Two days programme on Competitive						
		Managerial Skills						
26.	-do-	Two days programme on Goal Setting &						
		Time Management						
27.	-do-	Two day programme on Effective						
		Presentation Skills						
20	Ma D Anal	Two days programme on Goal Setting &						
28.	Ms. R. Archana	Time Management						

MASTER OF COMPUTER APPLICATIONS

Year 2009-2010						
S.No	Name of the Faculty	Programme Attended				
1.	Mrs.T.Lalitha	Wireless and Mobile Networks				
2.	Mrs.R.Sivakami	DB2 Fundamentals				
3.	Mrs.R.Sivakami	Enterprise Resource Planning				
4.	Mrs.S.Aruna	Oracle				
6.	Mrs.S.Lakshmi	DB2 Fundamentals				
7.	Mrs.T.Lalitha	DB2 Fundamentals				
8.	Mrs.M.Geetha	Enterprise Resource Planning				
9.	Mrs.M.Geetha	DB2 Fundamentals				
10.	Mrs.A.Vanitha	DB2 Fundamentals				
11.	Mrs.R.Shanthy	DB2 Fundamentals				
12.	Mrs.J.Sujipriya	Enterprise Resource Planning				
13.	Mrs.P.Arun Kumar	Enterprise Resource Planning				
14.	Mrs P.Arun Kumar	DB2 Fundamentals				
	Year	2008-2009				
1. Ms.N.Jayasudha French Language Level 1						

S.No.	Name of the Faculty	Programme Attended							
2.	Dr.G.M.Kadhar Nawaz	IUCEE- Effective Teaching: Cooperative Learning: Effective Faculty Development, Outcomes Based Education: Quality and Accreditations							
3.	Dr.S.P.Shantharajah	IUCEE- Effective Teaching: Cooperative Learning: Effective Faculty Development, Outcomes Based Education: Quality and Accreditations							
4.	Ms.N.Jayasudha	IBM Community Edition Software							
6.	Mrs.S.Lakshmi	Trends in Computing							
7.	Mrs.S.Lakshmi	Introduction to SPSS 17.0							
8.	Mr.P.Arun Kumar	Pedagogy Training Programme							
9.	Mrs.R.Sivakami	Web Services Architectures and Applications							
	Year	2007-2008							
1.	Dr.T.Padma	Secured Computing							
2.	Mr.N.Balakrishnan	Research & Administration Methodology							
3.	Mrs.S.Aruna	Pedagogy Training Programme							
4.	Mrs.S.Aruna	Data Mining							

S.No.	Name of the Faculty	Programme Attended						
5	Ms.N.Jayasudha	Teaching , Learning Process						
6	Mrs. S.Lakshmi	Pedagogy Training Programme						
7	MrsT.Lalitha	ERP-ABAP						
8	Mrs.M.Geetha	Pedagogy Training Programme						
9	Mrs.M.Geetha	Data Mining						
10	Mrs.A.Vanitha	Open Source & IBM Comm Edition Workshop						
11	Mrs.R.Shanthy							
	2	Managing People						
12	Mrs.J.Sujipriya	Pedagogy Training Programme						
13	Dr.G.M.Kadhar Nawaz	Conference on Autonomous						
		Technical Institutions (RCATI)						
	Year	2006-2007						
1.	Dr.T.Padma	Computer Network Routing and Communication Systems						
	Year	2005-2006						
1.	Dr.G.M.Kadhar Nawaz	Placement and Training cell-						
		Leadership that Gers Results						
2.	Dr.S.P.Shantharajah	Placement and Training cell-						
2.	21.31 .Shahunarajan	Leadership that Gers Results						

2.4.11 What percentages of the faculty have served as resource persons in Workshops / Seminars / Conferences during the last five years?

	Percentage of faculty served as				
Department	resource persons				
	2005	2006-	2007 -	2008 -	2009-
	- 2006	2007	2008	2009	2010
MECHANICAL	72	81	-	82	82
EEE	70	56	37	61	49
ECE	10	7	6	7	10
CSE	21	31	35	27	57
IT	-	14	7	13	17
CIVIL	-	13	40	-	28
ECE (PG)	11	14	14	11	14
FT	-	63	40	15	31
MBA	-	33	11	17	6
MCA	17	17	17	13	15
Average annual percentage at college level	34	33	23	27	31

2.4.12 What percentage of teaching staff have participated in workshops/Seminars/ Conferences and presented papers during the last five years?

	Percentage of faculty participated and presented				
Department	2005	2006-	2007 -	2008 -	2009-
	2006	2007	2008	2009	2010
MECHANICAL	92	89	90	90	94
EEE	83	79	55	79	67
ECE	62	50	42	45	50
CSE	93	77	83	63	71
IT	-	64	78	67	60
CIVIL	21	56	80	60	50
ECE (PG)	100	100	100	100	100
FT	-	88	40	77	39
MBA	-	78	89	100	100
MCA	75	25	17	44	65
Average annual					
percentage at	75	71	67	73	70
college level					

2.4.13 Has the faculty been introduced and trained in the use of

a) Computers: Yes

b) Internet : Yes

Formal training in the regular use of computers or the Internet has not

necessary as all the faculty are already conversant with been found

them even at the time of joining the college as teachers.

However, when new software is installed for routine use by faculty, e.g.

that related to the college's MIS, internal marks, etc, the course faculty

are trained to use them.

c) Audio-visual Aids:

Yes; the faculty are given a demo on the use of these aids as soon as they

are supplied to individual departments.

d) Computer-aided-teaching packages:

As explained in Sections 2.3.4 (b) and 2.4.7 (a) above, the Computer

Based Teaching/ Training (CBT) packages in use at the college are mostly

those developed at the college itself, through its Learning Resources

Development Centre, called "Sonaversity". These CBTs are designed to be

user-friendly and require little formal training.

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2.5 Evaluation Process and Reforms

2.5.1 Does the college evaluate teachers on teaching and research performance? How does the evaluation help in the improvement of Teaching and Research?

Teaching performance of the faculty is evaluated mainly by the overall class pass percentage in the course/s taught by the faculty. Faculty showing above 90% and 100% pass results are given motivating cash awards every year on Teachers Day. Faculty therefore work sincerely to continuously enhance their performance. The result is a vast improvement in the teaching-learning process. Teaching performance is also evaluated by analysis of student feedback on faculty teaching, as explained in Section 2.5.2.

Research performance of faculty is gauged by the number of quality publications in refereed or high impact factor journals, quantum of research grants obtained, patents applied for or granted, etc. It is recognised by attractive cash awards to the achieving faculty on Teacher Awards Day. This motivation encourages faculty to pursue research work. The special increments provided to faculty who successfully complete their PhD degrees are another way of improving research.

2.5.2 Has the institution introduced evaluation of teachers by the students? How is the feedback analysed and implemented for the improvement of Teaching and Learning?

Faculty teaching performance is graded as A⁺ (the best), A, B, C and D (the worst) on the basis of written feedback on individual faculty performance obtained from students for all theory courses.

Faculty getting a D-Grade are replaced by faculty with a good record of teaching; those having a C-Grade are either deputed for pedagogical training or are involved in team teaching with a senior teacher. Faculty getting a C-Grade are to show improved results in a subsequent feedback taken from students two weeks later. The grades obtained by faculty are taken into consideration during the annual performance review for salary revision. In view of the grading system for the teaching efficiency of faculty and its impact on performance and salary review, faculty are normally committed to enhance their teaching performance and thereby to improve the teaching-learning process.

2.5.3 Does the institution promote self-appraisal of teachers? If yes, how often?

The HODs of individual departments are encouraged to promote self-appraisal of their faculty, at least once a year. This is predominantly to instil in faculty the habit of evaluating their own performances across the entire spectrum of teacher skills expected of an engineering college or business school teacher. Some departments practise this technique of faculty development.

2.5.4 Is the appraisal by the teachers reviewed by the head of the institution and used to improve the quality of teaching?

The head of institution monitors the quality of teaching periodically, but indirectly, by reviewing the Faculty Record Books (FRB) of all faculty. The FRBs include the extent of syllabus covered by the faculty, the tests organised, the marks obtained by students in weekly tests, the corrective action taken by the faculty for below-par performers, the seminars conducted, the list of students counselled, etc.

The quality of teaching is reviewed by the HODs of the various departments and any action taken by them to improve the quality is communicated to the head of institution.

The head of institution also personally reviews the overall performance of individual faculty in concurrence with the respective HODs during the annual faculty performance review for salary revision.

2.5.5 Does the institution have an academic audit of departments? Illustrate.

The institution is an "ISO-Certified Institution" and has a 'Quality Management System' (Sona-QMS) being implemented. As part of the requirement of the QMS, 'Internal Quality Audits' (IQA) are conducted at the end of every semester, in which all departments and teaching faculty are audited for academic performance. The auditors perform the audit with the help of a 'check-list' that covers all the academic activities required to be performed by the department and teaching faculty. The academic audit also covers a scrutiny of the status of achievement of the "Quality Objectives" set by the management.

2.5.6 Based on the recommendations of the academic audit what specific measures have been taken by the institution to improve the teaching, learning and evaluation?

To improve the teaching, learning and evaluation process, the HODs are expected to take corrective action on any 'non-conformities' pointed out by the auditors on the basis of their findings from the academic quality audit.

A few of the specific measures taken by the institution to improve the teaching, learning, and evaluation process are detailed below:

- a) Teaching faculty who have been rated 'below-par' in the student feedback are either counselled by the HODs concerned or advised to attend training programmes in pedagogy organised by the HR Department or be involved in team teaching.
- b) Students whose academic performance is below average are identified and given special guidance and counselling by the faculty concerned.
- c) The challenging courses in a semester are identified at Class Committee Meetings', and special coaching is organised for the students in these courses.
- d) Weekly tests are conducted on Monday and Wednesday every week, and the evaluated papers are issued by the Thursday of the same week.

 Students failing the tests are to write retests on Saturday, same week.
- e) It is also ensured that there is 'Continual Improvement' in the academic results.

2.5.7 How does the institution monitor the performance of the students? (Annual/ Semester exam, Trimester Exam, Midterm Exam, Continuous assessment, Final exam, etc.)

Student performance is monitored by means of a continuous assessment process in practice for over a decade at the college and consisting of three weekly tests per theory course and a model examination on the lines of the university examinations. Retests are also organised for weekly tests every Saturday to help below-par students enhance performance. The course faculty counsel below-par students and urge them to do well in future tests. Academic counselling of students is also a part of this system and this is achieved on a fortnightly basis by designated faculty, acting as Faculty Advisors, as stated in Section 2.2.7.

For lab courses, student performance is monitored continuously at the regular lab classes; a model exam is conducted at the completion of all the lab experiments. Thereafter, for both the theory and lab courses, the final (university) exams are organised.

2.5.8 How are the evaluation methods communicated to students at the beginning of the year?

When all of the admissions are over for an academic year, a formal Fresher's Day meeting is organised for the incoming students and their parents. At this meeting, a clear overview of the college's facilities and the continuous evaluation system is presented to all the students.

2.5.9 What is the method of evaluation followed? (Central, Door, Double evaluation, etc.,)

Anna University of Technology, to which the institution is affiliated, follows Central Valuation method of evaluation. For the Autonomous 2010 curricula also, the institution proposes to follow the Central Valuation method of evaluation.

2.5.10 What is the mechanism for Redressal of grievances regarding evaluation?

The university has established a system for redress of student grievances in evaluation, whereby they are given an opportunity to apply for revaluation within a week of the announcement of the normal exam results. The results of such revaluation are announced about a month of the applications.

A similar system if addressing student grievances in evaluation is also proposed for the Autonomous (2010) Regulations of the college

2.5.11 When are the examination results declared? Give the time frame?

The university examination results are usually declared about two months after the completion of the examinations. If the final examinations are over say by November end, the results will be declared by the end of the following January.

2.5.12 Does the institution communicate to the parents regarding the

evaluation outcome? Describe the relative weighting given to

assignments/seminars/ dissertation/field work and written exams?

The institution communicates with the parents of students on a regular

basis. The marks list of individual students for the three cycles of weekly

tests are sent by individual departments to the parents, with a request in

some cases of below-par student performance to meet with the Class

Counsellor/ HOD concerned. Low levels of student attendance are also

communicated via SMSs to the parents concerned.

The relative weighting of the components of evaluation is as follows:

Continuous Internal Assessment: a)

Theory courses: Weekly tests 30%; Curricular Assignments 20%;

Total - 50%

Lab courses: Regular lab class performance + model exams = 50%

b) Final Examination: 50%

2.5.13 Explain the functioning of the office of the controller of examinations.

The institution has a curriculum prescribed by Anna University of

Technology, Coimbatore. The examination system, namely, organising the

final semester-end examinations, evaluation of answer scripts and

announcement of results, etc is therefore run by a Controller of

Examinations (COE) appointed at the university level.

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For the institution's autonomous curriculum which takes effect from 2010, it is proposed to have a COE operating from an exclusive examination cell. The COE will arrange for the question papers with the help of external question paper setters. There will be a Central Valuation immediately after the exams predominantly with external faculty. The results will be declared within about a week of the last day of examinations.

2.5.14 How long has the current system of evaluation been in practice?

It has been in practice ever since the institution has been an affiliated college.

2.5.15 Has the institution carried out any evaluation reforms? If yes, what are the reforms made with reference to evaluation? (Peer evaluation, Double evaluation, Open book examination, Question Bank, Moderation, Internal assessment etc.)

As an affiliated institution, under the erstwhile Anna University, Chennai up to 2006, the relative weighting of the components of evaluation was 20% for the internal assessment and 80% for the final examination.

As of 2007, when Anna University was regionalised and the institution consequently came under the Coimbatore constituent of the university, an evaluation reform changed the weighting for the internal assessment to 50% and that of the final examination 50%.

Additionally, for the internal assessment, modified components were prescribed as explained in Section 2.5.12 above.

Evaluation reforms are being introduced in the Autonomous curriculum of the institution from the academic year 2010-2011 onwards.

2.5.16 How is the evaluation process made transparent? Illustrate the different stages of evaluation till the declaration of results?

The institution follows the evaluation process prescribed by the university. An online examination system has recently been introduced and the institution has an exclusive room for confidential online exchanges with Anna University of Technology COE's Office. Question papers are transmitted online to the college on the day of the concerned examinations and the desired numbers of copies are printed in this room for distribution to the various exam halls across the college. A university representative is appointed for overseeing these operations to ensure security and confidentiality in the proceedings.

With regard to the internal assessment, the process is transparent in that the components of internal assessment, namely periodic tests and assignments, are evaluated by the concerned faculty and the marks are entered in the students' notebooks assigned specifically for the components. The students are thus aware of their internal marks. When the final internal assessment marks of the students are sent to the university, they are uploaded onto the university website for free access by any student.

At the end of the examinations, the answer papers are sent back to the university via the university zonal office for onward transmission to the central valuation site decided by the university. The central valuation is organised on dates scheduled by the university and the evaluated answer scripts and the filled-in OMR mark sheets are despatched to the university by the concerned university representatives. The marks are computerised

at the university and synthesised with the internal assessment marks. The final results are uploaded onto the university's website for all to see.

2.5.17 Mention the number of malpractice cases reported and how they are dealt with (average per year)

There has been no case of malpractice in the university examinations at this college. However, in the event of malpractice, the university has prescribed stringent deterrents like cancellation of all the papers, cancellation of the paper in question, fines, etc, depending upon the gravity of the offence.

2.5.18 Does the college provide the photocopy of answer scripts to students? Give details of the practice.

Under the university examination evaluation system, students who believe they deserve more marks than they have actually obtained in any of the courses of an examination are allowed to apply for a straight revaluation of their answer scripts.

The rule also permits interested students to first request for a Xerox copy of their answer script and after a review of the valuation, to decide whether to apply for revaluation or not.

2.5.19 Give details regarding the computerisation of the examination system?

The Anna University of Technology (CBE) examination system is well and truly computerized, with each affiliated college having a mandatory computer enclosure for secure and confidential online transactions with the COE of the university, for conduct of all semester and trimester examinations.

Question papers for all courses are received online on the day the concerned examinations are scheduled. For the practical examinations, the student attendance and marks particulars are uploaded online and transmitted to the COE on the same day. For the theory courses, the OMR sheets received by the COE from the valuation centres are computerised at the university itself.

2.5.20 What are the measures taken by the institution to ensure security and confidentiality of the evaluation system?

The evaluation system is organised entirely by the university to ensure total security and confidentiality at all stages of the system, as explained above in Section 2.5.16.

2.6 Best Practices in Teaching, Learning and Evaluation

- 2.6.1 What innovations / best practices are followed by the college with regard to teaching, learning and evaluation, with reference to admission process, student profile / catering to diverse needs / teaching-learning process / teacher quality / evaluation process and reforms or any other quality initiatives?
 - a) Admission Process / Student Profile / Catering to Diverse Needs
 - Bridge course for below-par students admitted to the college

Management scholarships awarded to deserving categories of students,
 especially the economically-disadvantaged, the physically-challenged and
 women

b) Teaching-Learning Process

- Active Learning Resources Development Centre for developing CBT packages in a variety of courses to aid teaching/learning
- Lively classroom management with lectures using AV aids; team teaching, technical quizzes, lab-class viva, group discussion, seminars, etc also used to enhance teacher-student interaction
- Special remedial classes for students facing learning challenges
- Regular practice of keeping parents informed of their wards' academic performance
- MIS with campus-wide access for updated student attendance and academic progress record and with information-forwarding facility to parents via SMS
- Guest lectures on curricular topics by industry experts

c) Teacher Quality

- Staff awards for performance excellence
- Motivation for faculty development
- Access to satellite lectures, A-VIEW, NPTEL resources to regularly update knowledge

d) Other Quality Initiatives

 Common Placement Centre for all departments, with Corporate Relations Manager for organising campus interviews and placement training

- Exclusive HR department, with HR Manager for staff recruitment and regular pedagogical training
- New advanced research centre with sophisticated labs and research staff
- Holistic student development: Full-fledged sports and games facilities, encouragement for student research, ample exposure to cultural activities, etc
- International linkages for advanced research and twinning Masters degree programme

Criterion III: Research, Consultancy and Extension

3.1 Promotion of Research

3.1.1 Describe various steps taken to encourage research by the faculty (by providing seed money, grants, other facilities)?

The following are steps taken to encourage research:

Faculty doing research are provided with equipments and other facilities like software, books and journal subscriptions etc.

- (i) The management is liberal in providing Laboratory spaces and buildings fore carrying out research. This is self evident that recently a separate R&D Centre was inaugurated by former President of India, Dr. Abdul Kalam. All R&D centres have separate and independent laboratories.
- (ii) Good quantum of financial assistance is available for the presentation of papers and travel expenses.
- (iii) Many faculty have availed seed money for beginning of research activity.
- 3.1.2 Is research a significant activity of the college? How does the institution promote faculty participation in research and recognize faculty for guiding research?

The research at the college is significant based on the facts that

(i) The revenues generated through external grants, research and consultancy is 199.53 Lakhs

- (ii) Some of our products developed are used in space science, satellite communications, undersea applications and measurement applications by ISRO and other Industries.
- (iii) Our research products and services are used in rural development purposes.
- (iv) There are 538 National Conference, 336 International

 Conference and 272 International and National Journal

 Publications to the credit of the college.
- (vi) All the departments are recognized by Anna University of Technology, Coimbatore, as research centres for registering
 Ph.D. scholars and carrying out Ph.D. research in collaboration with university.
- (vii) There are currently 25 University recognized research supervisors/guides for Ph.D. in various specializations in engineering, science, computer applications and management.
- (viii) There are 113 research scholars currently pursuing Ph. D. in the college.

University recognizes research guides based on laid down rules and policies framed by syndicate and director of research of University.

Management also encourages the faculty to undertake research and development activities.

3.1.3 What provision is made in the budget for research and development?

The budget has separate provisions for expenses for the R&D and expected revenues from the research activities.

The budget is distributed for departments and for equipments/software etc.

3.1.4 Does the college promote participation of the students in research through the academic programme?

Yes. There is a good contribution for the research from students. This is evident that students have published many papers in journal and conferences. They have also won many prizes at national and international level. There are 4 patents in the process on the parts of students.

3.1.5 What are the major research facilities developed and made available on the campus?

- (xiii) Language lab
- (xiv) High Voltage Test and Measuring Equipment
- (xv) Free Open Source Software facility
- (xvi) IBM Centre for Excellence
- (xvii) High Energy Ball Mill
- (xviii) Metallurgical Microscope with image processing
- (xix) Thermal Evaporation Vacuum Coating Unit
- (xx) Spin coater
- (xxi) Adobe Bundle, Oracle database, Visual Prolog, SPSS, Apple MAC
- (xxii) 5 Million Spartan FPGA Kits
- (xxiii) XILINX, MATLAB, MULTSIM
- (xxiv) Antennae Kit Set, Video Fiber Link, LabVIEW
- (xxv) Photonics

3.1.6 Does the college subscribe to research journals for reference as per the departmental requirements?

Yes. Each Department has certain number of research journal such as IEEE Transactions, IE(I) Journals, Computer Society Journals, Transactions of ASME etc. Recommendations of Head of the Department is taken every year for any new/additional journal subscription.

3.1.7 What are the initiatives taken by the institution for collaboration with other research organizations and industry?

- (i) So far a total of <u>39</u> Signed MOUs
- (ii) Faculty internship facility at industries
- (iii) Visits by Industries to the Institution
- (iv)Student visits to the industries
- (v) Joint product development
- (vi) Joint academic programmes with foreign Universities

3.1.8 Is there a research committee to facilitate and monitor research? Give details.

Yes. There is a research committee which steers the research and development activities and guides for research related matters including that of purchase of equipments, monitoring the projects etc.

3.2 Research and Publication Output

3.2.1 Give details of the ongoing minor and major projects?

The following are few of the major and minor projects ongoing in the college:

- i) Radio wave propagation under rain and water droplets interference.
- ii) Brushless DC Motor design and development for ISRO.
- iii) Under-water High-Speed Brushless DC Motor design and development for National Institute of Ocean Technology.
- iv) CT Caliber for measurement for Megawin Switchgear Pvt Ltd (Minor)
- v) High Voltage Leakage and Insulation characterization in presence of impurity deposits on wires. (Minor)
- vi) Nano Technology and nano-materials.
- vii) Photonics and Nano Technology for Transistors

3.2.2 Does the college have research funding from the Government, Industry, NGO or International agencies? Give details

Yes. There are grants (to a tune of Rs 199.54 Lakhs) from various agencies including from government organizations such as:

- (i) AICTE
- (ii) DST
- (iii) ISRO

(iv) CSIR (v) **TNSCST** (vi) **CCSTDS** (vii) IEEE (viii) AU of Technology, Coimbatore (ix) IGCAR, Klpakam 3.2.3 Does the college have research students currently registered for M.Phil & Ph.D? Give details of number of M.Phils / Ph.Ds awarded during the last five years? Yes. There are students registered for PhD and MPhil in the College. Ph D. Registered: 113 M.Phil: 10 3.2.4 Does the college provide fellowship/scholarship to research scholars?

Yes. College provides assistantship in the form of equipments and other facilities including computing and software requiremnts.

3.2.5 Does the college have post-doctoral fellows currently working in the institution?

YES

3.2.6 Give highlights of the collaborative research conducted by the faculty

The following are major collaborative research conducted in the college:

- Indian Space and Research Organization: Brushless DC (BLDC)
 Motor and Quadruplex BLDC Torque Motor, both of which are being used in the ISRO satellites.
- ii) National Institute of Ocean Technology: Under-water High-Speed BLDC Motor for use in submarines; the product has been a great success up to a water depth of over 5 km.
- iii) Megawin Switchgear Pvt Ltd: CT Caliber for measurement of low current.
- iv) The research collaborations are already on with University of Bologna, Italy and University of Nebraska, USA.
- v) R-and-D in collaboration with industry (Eldatex, Sona-Vana Textiles)
- vi) College-Sponsored R-and-D in the areas of fabric comfort, textile finishing, eco-friendly dye-house effluent treatment, garment engineering, etc

3.2.7 What research awards and patents were received by the faculty during the last five years?

- (i) 7 patents filed
- (ii) Career Award for Young Teachers from AICTE, New Delhi
- (iii) Paper Publication awards
- (iv) Best R&D Activities and Best R&D
- (v) Grant Receiving awards

3.2.8 Are there Research papers published by the faculty in refereed journals periodically, by the faculty? If yes, specify.

Yes. There are total 272 Journal papers published by our learned faculties in various refereed journals.

3.2.9 Give the list of publications by the facilities

- a. Books: 18
- b. Research papers: Conferences: 974, Journal: 272
- c. Abstracts -
- d. Proceedings -
- e. Theses: **Ph.D. 12, ME: 252**
- f. Any other (specify)

3.2.10 Furnish details about citation index / impact factor of publication by the faculty?

Average Impact factor is 0.8 currently.

3.3 Consultancy

3.3.1 List the broad areas of consultancy services provided by the Institution during the last 5 years (Industries, Government, NGO / Community / Public)

The following are some of the consultancies undertaken at college:

- (i) Testing and Calibration of Electronic Current Transformer for Megawin Switchgear Pvt. Ltd., Salem.
- (ii) Software development consultancy for IGCAR, Kalpakkam, TN and Cypress Semiconductor Technology, Bangalore.
- (iii) Modeling and detailed drawing of Sinter Plant Feed Drum for JSW Steel Ltd. Pottaneri and Megawin Switchgear Pvt. Ltd., Salem.
- (iv) Analysis of heat transfer and cylinder failure for Vee Technology Pvt.Ltd., Salem.

- (v) Management Consultancy for KMC Consutrucitons Ltd., Royal Government of Bhutan, Godrej Home Appliances Division and Prem Textiles International, Karur.
- (vi) Consultancy for effects on radio wave propagation during rain fall for C-DAC, Pune, Calcutta University, Calcutta, University of Science and Technology, Cochin, National Physical Research Laboratory, New Delhi, National Atmospheric Research Laboratory, ISRO and Nigerian Meteorological Agency, Nigeria.
- (vii) Development of HTPC Software for Dutch Company, Software development for workflow management for VEE Technologies, Salem, and Bus Reservation System for N. S. Motors Service, Salem.
- (viii) Consultancy on datawarehouse and MIS for M/S Mukesh

 Associates, Salem, Project Management System for VEE

 Technologies, Salem.
- (ix) Flight models of BLDC Motors for VSSC, Trivandrum and BLDC Motors for underwater applications for NIOT, Chennai. Hibrid Stepper Motors for ISAC, Bangalore.
- (x) Industrial training consultancy at the executive, supervisory and shopfloor levels (Sponsored by Salem Steel Plant, Tamilnadu Women Development Corporation, JSW, etc)
- (xi) Setting up a pattern-making and garment construction labs for an ITI at Mettur (Sponsored by JSW)

3.3.2 Does the institution publish the expertise available for consultancy services?

Yes. It is available on the web pages of College. A separate web link has been provided for R & D expertise and related activities.

3.3.3 Give details regarding the nature of consultancy services and revenue generated? What are the mutual benefits accrued due to consultancy?

The consultancy services are available in all the leading fields of engineering and technology, industrial problems, management solutions and academic training and skill enhancements. The Sonaversity, a publication centre and a unit of Sona College undertakes content developments and publications apart from multimedia application services for various organizations including Government's organizations and Universities.

- A significant revenue of Rs 84.00 lakhs generated from testing of starch
- Sona Speed has generated Rs 40.00 lakhs
- Sona PERT Rs 40.00
- Centre for NANO Materials generated Rs 29.00 lakhs
- Sona Centre for VLSI and Embedded SoC (SONA CVES) has generated 23.30 Lakhs through various grants
- CAD/CAM generated Rs 7.00 lakhs

3.4 Extension Activities

3.4.1 What outreach programmes are organized by the institution? How are they integrated with the academic curricula?

It is designed for need based and industry specific to facilitate skill development by providing employment/self employment for the school dropouts, semi skilled women, under privileged women and socially

disadvantaged in the community. The following are the programmes offered by the institution through Centre for Social Responsibility Initiatives (Training and Development for Employable Skills) for the welfare of the under privileged and Rural community in collaboration with social welfare organizations

S. No	Name of the programmes	Collaboration	Targeted population	No. of people benefited
1.	Multi Skilled Garment Technician	Department of Corporate social Responsibility Salem Steel Plant, Steel Authority of India (SAIL),	Unemployed and dropout rural Women	320
2.	Multi Skilled Garment Technician	Tamil Nadu Corporation for Women, Project Implementation Unit, Salem	Unemployed &Dropout Rural Women	60
3.	Multi Skilled Multimedia packages	Tamil Nadu Corporation for Women, Project Implementation Unit, Salem	Unemployed & Dropout Rural Youth	60
4.	Multi Skilled Data Entry Operator	Tamil Nadu Corporation for Women, Project Implementation Unit, Salem	Unemployed & Dropout Rural Youth	60
5.	Entrepreneurship Development Programme	Tamil Nadu Corporation for Women, Project Implementation Unit, Salem	Budding Women Entrepreneur	90
6.	Multi Skilled Garment Technician	Vazhnthu Kattuvom Project, Project under World Bank, Govt. Of Tamil Nadu	Unemployed Rural youth from below poverty line	56

S. No	Name of the programmes	Collaboration	Targeted population	No. of people benefited
7.	Multi Skilled Construction Assistant (Assistant Mason)	Vazhnthu Kattuvom Project, Project under World Bank, Govt. Of Tamil Nadu,	Unemployed Rural youth from below poverty line	50
8.	Dress Designing & Garment Making	Self Supporting Programme	Unemployed Women	69
9.	Language Programme - English	Self Supporting Programme	Budding women Entrepreneurs	51
10.	Health & Beauty Care Management	Self Supporting Programme	Unemployed Women	116
11.	Yoga	Self Supporting Programme	Budding women Entrepreneurs	30
12.	Multi Skilled Multimedia packages		Unemployed youth from Slum	20
13.	Dress Designing and Garment Making	Department of Differently abled welfare, Govt. of Tamil Nadu		33
14.	Domestic House Keeping		Unemployed & Dropout Rural Women	30
15.	Dress Designing	Agriculture and Rural Dro	Il Inemployed &	25
16.	Embroidery		Dropout Rural	25
17.	Block Printing		Women	25

Presently, we have **applied for registration** to act as Vocational Training

Provider under Skill Development Initiatives Scheme of Government of

India to facilitate Skill Development programmes to support unemployed
and underprivileged.

Sectors:

• Construction • Hospitality

SecurityRetail

• Garment making • Beauty Culture and Hair Dressing

The skill development programmes are designed to provide technical knowledge and hands on training to the participants to develop technical and entrepreneurial skills to enable to get employment/self employment.

The curriculum which is designed by the faculty of the discipline concerned are taken from the regular curriculum and modified to suit to the industry requirement and more focus is given for hands-on training to prepare the participants to perform well in the industry.

3.4.2 How does the college promote institution-neighborhood network in which students acquire service training, which contribute to sustained community development?

Our institution has collaborated with other welfare departments and Corporates to promote institution neighborhood net work to support underprivileged. Centre for Social Responsibility Initiatives (Training and development of employable skills) of our institution is facilitating training programmes in collaboration with industries, welfare departments and financial institutions to support the under-privileged in the community for the sustainable development.

The following are the like-minded organizations in our network:

- Department of Corporate Social Responsibility, (SAIL) Steel Authority of India Ltd, Salem Steel Plant
- Tamil Nadu Corporation for Development of Women through Implementing Units, Govt. of Tamilnadu, Salem District
- Department of Social Welfare (through Vazhnthu Kaattuvom Project of World Bank sponsored programme), Govt. of TamilNadu, Salem District
- Tamil Nadu Slum Clearance Board, Project Implementing Unit, Govt. of Tamil Nadu, Salem Dist,
- National Bank for Agriculture and Rural Development (NABARD), Salem District
- Department of Corporate Social Responsibility, Jindal Steel Work (JSW)
 Steel Ltd, Pottaneri, Salem
- Department of Welfare of Differently abled, Govt. of Tamil Nadu, Salem Dist

In the above programme, our faculty members and students are involving themselves and share their expertise for the promotion of livelihood of the poor in the rural community.

3.4.3 How does the institution promote the participation of the students and faculty in extension activities of NSS, NCC, YRC and other NGOs? How often and in what roles are they involved?

Sona College has been promoting the participation of students and faculty in extension activities like NSS, NCC, YRC, RRC and NSO for the past many years.

NSS: Started in 2002, the NSS activity has three units of 100 students each with three faculty being in charge of them as NSS Officers. The 300 students comprise 150 first-year and 150 second-year students, who are selected on the basis of a written test, an interview and a 6-month probation designed to determine their interest in joining and working as NSS volunteers. All selected volunteers participate in pre-scheduled NSS activities, which mainly involve educating and assisting rural people in nearby villages to lead a better quality of life, and an annual one-week camp at a village, medical camps, blood donation and other social service activities.

NCC: The NCC Wing was initiated in 2005 and at present it has two wings, a boys-unit (Army Signals) and a girls-unit (Army Battalion), each with 50 cadets selected by Indian army officers on the basis of their physical fitness. A male faculty and a female faculty of the college are appointed as Officers in charge of the units respectively, initially as 'caretakers of the units' for one year, and then as civilian NCC Officers, ranked as Lieutenant, after rigorous training at an Army camp in Nagpur for the male officer and at Gwalior for the female officer. Promotion to higher ranks like Captain, Major is based on further rigorous training. The cadets are to participate in 40 parades a year and in two camps, one each for the B-Certificate and C-Certificate are compulsory components of the training.

YRC and RRC: There is one unit each of the YRC and RRC with 100 volunteers each. Students are selected as for the NSS and trained through several workshops like health-and-medical awareness, road-traffic and road-sense awareness, fire safety awareness, social responsibility awareness, etc. Many of the volunteers are involved in peer-education as a

part of the training with senior students training their junior counterparts. The RRC volunteers are primarily involved in AIDS awareness and blood donation activities. A faculty, appointed as Vice-Chairman of both of these associations, has the responsibility of planning and organising these activities.

The college has instituted the Best NCC Female/Male Cadet Award and Best NSS/YRC/RRC Volunteer Awards to encourage voluntary participation, the awards being presented to the winning students on the Annual Day of the college along with cash prizes.

NSO: The college provides extensive facilities and encouragement on the campus for students to participate and excel in sports and games. The college has been winning the 'Overall Champion' award in inter-college sports meets for the past few years. All of Sona's athletes and sportspersons are automatically inducted into the NSO. There are intra-mural sports competitions for the staff too and they participate in large numbers to hone their talent. A Physical Director is appointed to plan and execute all sports activities and to encourage high student and staff participation. Special coaches are also appointed to train students.

3.4.4 Is there any research or extension work to ensure social justice and to empower under-privileged sections in particular, women and children?

The training initiatives undertaken by the Centre are focused to technical skill development of the individual, women in particular. In order to initiate women empowerment, we have designed women empowerment and economic development programmes, in association with Corporate

and welfare organizations to provide integrated services (empowerment initiatives, career guidance, skill development, entrepreneurship exposure, and employment support and life education). To ensure the possibilities, we have applied for selection as the Vocational Training Provider under Modular Employable Skills (Skill Development Initiative Scheme of Ministry of Employment & Training, Govt. of India,) To fulfill the above, we have chosen the following sectors exclusively for the women and the economic development.

The programmes are as follows:

- textiles
- computer
- Hospitality
- Retail
- Entrepreneurship

3.4.5 What is the impact of extension on the community? Specify.

Our Centre focuses mainly on rural community, youth in particular. Through the initiative, of Extension and collaboration with other welfare organizations, we have achieved the desired result of 70% of the participants in all programmes were settled with economic development sources.

So the impact of our extension activity on community is progressive and widely known to the public.

3.4.6 Does the college receive awards/recognition for extension activities?

All the programmes are offered in good manner for the benefit of people in and around Salem. A programme on women empowerment and economic development by arranging Skill Development programme on Multi skilled Garment Technician Training in collaboration with Steel Authority of India Ltd, Salem Steel Plant was instrument for SAIL, Salem Steel Plant for being honored with Corporate Social Responsibility Award for the year 2007-08 by the Govt. of Tamil Nadu. In short, all our programmes are in good demand in the community, as a whole.

3.5 Collaborations

3.5.1 How many linkages does the institution have, for research and extension?

More than 140 Industries and Organizations

3.5.2 List the organizations and the nature of linkage and expected outcomes.

- VIKRAM SARABHAI SPACE CENTRE (VSSC), Thiruvananthapuram
- ISRO Inertial Systems Unit(IISU), Thiruvananthapuram
- Infosys (Campus Connect), Bengaluru
- NASSCOM, New Delhi
- IBM India ltd., Bengaluru
- CISCO Networking Local Academy, Amrita Institute of Technology,
 CBE
- Oracle Corporation India Ltd. Bengaluru
- Sun tm Academic Initiative, Bengaluru
- British Council, Chennai (Nodal Dote-BEC centre)
- CYPRESS Semiconductor Corporation, Bengaluru
- CHECKTRONIX INDIA Pvt. Ltd, Chennai
- Keane, Bengaluru
- Pramati Technologies Ltd., Hyderabad

- Streta IT Solution Pvt. Ltd., Chennai
- Nuratech Inc. Chennai
- System Level Solutions Pvt Ltd, USA, along with ENIXS, Trichy
- Parthys Patent Eagle, Chennai
- Varalakshmi starch industries ltd. Salem
- Tamil Nadu Sago and Starch Manufacturers Welfare Association, Salem
- KMC Construction ltd, Bengaluru
- AKR Parcel Service Pvt Ltd, Salem
- Prem Textiles International, Karur
- Jasan Industries, Salem
- JSW Steel Limited, Salem
- The Central Institute of Indian Languages (Ministry of HRD, Govt. Of India), Mysore
- Mukesh & Associates, Salem
- Salem Steel Plant, Salem
- UNIVERSITY OF NOTTINGHAM, Nottingham NG7 2TU, U.K.
- Assumption University, Bangkok, Thailand
- ATMOSPHERIC SCIENCE DEPARTMENT, Cochin University of Science and Technology, Cochin
- RADIO AND ATMOSPHERIC SCIENCES DIVISION, National Physical Research Laboratory, New Delhi
- NIGERIAN METEOROLOGICAL AGENCY, PMB 1215 Oshodi
 Lagos, Nigeria
- INDIRA GANDHI ATOMIC RESEARCH CENTRE, Chennai
- MEGAWIN SWITCH GEAR, Salem
- ISRO / DST Collaborating with Indo-US E-learning Initiative by Govt.
 of India

Nature of Links: Collaborative Research, MOUs, Mutual Visits etc. based on mutual benefits and mutual sharing.

Expected Outcomes: Innovations, Patents, Joint Publications, Trained Personnel

3.5.3 How does the linkage promote

a) Curriculum development

Industrial trends and focus areas are considered while developing curriculum by inviting Industrial Experts and Domain Experts. This ensures that industrial needs are given due weightage. Board of Studies has members from industries which is another way to link the industry for curriculum development.

b) Internship

The students are sent for internship to various industries. This gives exposure and opportunities to the students to interact with real time industrial operations and setups.

c) 'On-the-job' training

This is a part of industrial visit for projects and implant training. Apart from industrial visits, students spent few months at industry while doing final semester projects.

d) Faculty exchange and development

Faculty exchange and development programs are undertaken as it the one of the aim of having MOUs with industries. Many a time faculty is provided with opportunities to get trained in industries.

e) Research

Research is main collaborative activity between industry and institution. College has record of joint publications and visits to various organizations and universities to undertake joint and collaborative research.

f) Consultancy

Consultancy functions in two ways. College provides consultancy services to other departments and organizations by virtue of have good infrastructure and learned faculty. College also seeks consultancy from other organizations and experts to improve our own strength and functioning

g) Extension

Extension services are provided by various departments with the help of coordination of Continuing Educations Department. There are number of areas where college has shown good potential and strength to provide extension services through well established linkages.

h) Publication

Publications are undertaken primarily by learned faculty and research staff with good contribution from students as well. Linkages with other industrial and research organizations certainly helps in publications as college faculty and students have opportunities for industrial exposure through linkages.

i) Student Placement

Linkages with industry is definitely helpful for placing more number of students as the link is first established. Industry gets fist hand information of college strength and infrastructures through links. Prior exchange of information and initial impression pay well in the form of placement.

3.5.4 What measures has the institution adopted, to enhance the quality of Research, Consultancy and Extension during the last five years?

- (i) Signed many MOUs with various industries and organizations including academic institutions.
- (ii) Invited many industrial experts and domain experts for interactions with faculty and students at college. This has helped to know the latest trends in industrial research. The college has tuned itself to the industrial trends and focus areas of research.
- (iii) The college has also signed MOUs with foreign Universities such Wayne University, Michigan, Syracuse University, USA etc.

3.6 Best Practices

3.6.1 Describe the best practices in research, consultancy and extension with reference to promotion of research / publication output / consultancy and extension activities / collaborations?

The following are best practices in research, consultancy and extension

Faculty doing research has reduced teaching loads and freedom for selecting research area as per their specialization or interests.

i) Faculty doing research and staff has provisions for sharing revenues generated through R&D and Consultancy.

- Faculty is encouraged to participate in conferences and symposiums at national and international level. Their expenses are covered by grants from management
- iii) Annual awards like best research paper, best R&D activities, best innovation etc. are conferred to the Faculty doing research faculty and staff.
- iv) Faculty doing research and supporting staff have freedom to undergo training at various institutions/organizations/industries

Criterion IV: Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 How well endowed is the college in terms of physical infrastructure (classroom, administrative buildings, staffroom, transport, water, power supply, etc., to run the academic programme) Enclose the master plan of the college campus indicating the existing buildings and the projected expansion in the future?

ANS: Sona has excellent infrastructure facilities, which include

- Bright and airy classroom.
- State –of-the art laboratories.
- Industry standard training centers
- Well stacked library.
- Sophisticated computer centers
- Homely hostel facilities
- Multimedia language laboratory.
- Advanced R&D Centers
- Continuing Education centre and so on

The master plan of the college campus indicating the existing buildings and the projected expansion in the future is enclosed.

4.1.2 What are the infrastructure facilities available for:

a) Academic Activities:-

- The classrooms are well ventilated, furnished and provide sufficient learning and teaching comfort.
- All types of teaching aids ranging from the ubiquitous overhead
 projector to computer based teaching packages are available in every
 department. These give the classroom ambience a professional touch. All
 the classrooms are provided with chalk boards, projection facilities, notice
 boards, curtains, dustbins, acoustically treated walls, good flooring etc.,
- The library has an excellent collection of books, journals and other learning materials. Separate collections of reference books, standards, bound volumes of journals, technical reports, theses, video cassettes and CDs are available.

b)Co-curricular activities:-

- The college has two auditoria, six seminar halls, one open air theatre and one amphitheatre, to organize student development programmes, besides seminars, conferences and a number of college functions.
- Sona addresses all the needs of the students like permitting them to present papers in other colleges, providing allowances for their travel and food.

c) Sports:-

 SONA has stupendous sports facilities, both indoor and outdoor, for maintaining physical fitness and health of students and staff.

- An athletics ground with a standard 400m track, a modern gymnasium, a
 Yoga centre, Semi Olympic size swimming pool, mini golf course,
 Billiards are the major highlights of SONA's sports facilities.
- Tennis, Basket Ball, volleyball, Ball Badminton and shuttle courts are also provided.

d) Laboratories:-

- The laboratories are quite roomy and offer a welcome setting for practical learning sessions.
- The equipment are of industry standard and the latest available in the market.
- Training in the practical sessions is always focused on current industrial needs.
- Apart from the equipment available for curriculum, many other equipment are provided exclusively for research and development.

e) General computer education:-

- SONA has 18 sophisticated computer centers to impart the latest technology in computing.
- 1800 computers are installed in addition to the 80 laptops with a system to student ratio of 1:2.5.
- SONA has 8 Mbps leased line internet connectivity.
- Computers are also installed at Boys' and Girls' Hostels
- C++ and Java lab, system programming lab, virtual programming lab, multimedia lab, Networking lab, operating systems lab are some of the laboratories enriching the knowledge of computers.

f) Other activities:-

Language laboratory;-

- SONA has an excellent multimedia language lab to help students enhance their language skills, with interactive softwares.
- SONA is the nodal centre for offering Business English certificate course.
- SONA has the facilities for receiving the live lectures delivered by eminent professors, through satellite.
- SONA has a continuing education centre which offers various value added courses to the students, during weekends and vacations.
- SONA also has various training centers like
 - IBM centre of excellence
 - LINUX training centre
 - CISCO
 - Infosys campus connect programme.
 - WIPRO 10X.
 - CAD/CAM Centre.
 - Multimedia
 - PCB design and fabrication etc.,

4.1.3. Has the institution augmented the infrastructure to keep pace with its academic growth? Specify the facilities and the amount spent during the last five years.

Yes. The institution augmented the infrastructure to keep pace with the academic growth. Every year a new block is added. Independent blocks are

provided for each programme. Every year, new equipments are added in the laboratories.

Amount spent during last five years:-

$$2008 - 2009 - 17.92 Lakhs$$

$$2009 - 2010 - 20.59$$
 Lakhs

$$2010 - 2011 - 40.00 Lakhs$$

4.1.4 Has the institution provided facilities like common room, wash / restroom for women students and staff?

Yes, facilities are provided for women Staff and Students like common room, wash/rest Room, etc.,

4.1.5 What are the steps taken for optimal utilization of infrastructure facilities?

- Continuing Education classes are conducted in the classrooms in the evenings (5.30pm to 7.30pm).
- Research works are carried out in the laboratories, when there are no practical sessions.
- Testing and consultancy works are also carried out in the laboratories,
 when there are no practical classes.
- Library is kept open from 8.00am to 8.00pm on all working days and from 10.00am to 5.00pm on Sundays & Holidays.
- Computer centers are kept open upto 8.30pm

 All the indoor and outdoor sports facilities, are effectively utilized by the students and staff.

4.1.6 What are the facilities available for differently abled students?

- The differently abled students are mostly accommodated in the ground floor.
- Wheels chairs are available at the entry of buildings.
- Ramp with handrail is provided at the entrance of blocks.
- Separate toilets with EWC are provided.

4.2 Maintenance of Infrastructure

4.2.1 What is the budget allocation for the maintenance of -

- a. Land 3 Lakhs
- b. Building 40 Lakhs
- c. Furniture 20 Lakhs
- d. Equipment 15 Lakhs
- e. Computers 20 Lakhs
- f. Transport 12 Lakhs

TOTAL - 110 Lakhs

4.2.2 How is the budget optimally allocated and utilized?

Budget is allocated to each category, based on the previous year experience and also based on the importance and need for the services.

4.2.3 Are there staff appointed for maintenance and repair? If not, how are the Infrastructure facilities, services and equipment maintained?

- For each of the above category, staff members deputed for carrying out the maintenance.
- Staff members of the Civil Engineering Department take care of the land and Building maintenance.
- Workshop Superintendent and his team take care of the furniture maintenance.
- Lab technicians and lab assistants of every laboratory look after the maintenance of equipments. They are guided by the lab-in-charge and the HOD.
- A Staff Member of Mechanical Engineering Department is deputed as in charge for carrying out activities of transport, with 6 drivers working under him.

4.2.4 How is the infrastructure optimally used?

The Staff Members in-charge of various activities ensures that the infrastructure is optimally used.

4.2.5 What is the mechanism for maintenance of computer, other network facilities, Library and information facilities.

A separate team called as "Computer Maintance Group" consisting
of 12 technicians/Engineers headed by a Professor of Information
Technology is executing all the maintenance works, networking,
installation of softwares, antivirus softwares, etc., for the entire
Institution.

• Librarian, assistant Librarian, library assistants take care of the Maintance of the Library and information facilities

4.3 LIBRARY AS A LEARNING RESOURCE

4.3.1 How does the library ensure access, use and security of resource?

Barcode technology is used for entry, transaction, issues etc.,

4.3.2 What are the facilities available in the library? (Computers, Internet, Reprographic facilities etc.)

- 28 computers are installed in the library and all are connected to internet.
 Other facilities available, are
- Lending Service.
- Reference Service.
- Current Awareness service
- E- journal[full-text] Access
- Internet service.
- Information Retrieval.
- Reprography Service
- Referral Service.
- SDI Service
- Inter library loan
- Media Center
- Newspaper clippings
- Orientations

4.3.3 How does the library collection cater to the needs of the users?

- Most of the titles provided in the library are popular text books and they are widely used by all the students.
- Students are encouraged to refer many books for the preparation of the notes for their paper presentations, project work etc.,
- Journals containing research articles are widely referred by faculty and students, carrying out research works.

4.3.4 What is the stock of books in the library? (titles)

21065

4.3.5 Furnish the information regarding the number of journals subscribed by the institution?

295

4.3.6 How does the library ensure purchase and use of current titles, important Journals and other reading materials?

- Suggestions are collected from the advisory committee, Senior Professors of all the departments, industry experts etc., for subscribing / purchasing journals /books.
- New arrivals are prominently displayed in the entrance of the library.
- Catalogs of popular publishers are circulated to all the departments.

4.3.7 If the library has an archives section, to what extent is it used by the readers and researchers?

YES. Archives section is widely used by the readers and researchers.

4.3.8 How are on-line and Internet services in the library used by students and faculty? Specify the hours and frequency of use?

Online and internet services in the library are mostly used by the Students, since the faculty have their desktops connected to the internet.

Working hours:-

8.00am to 8.00pm - Monday to Saturday.

10.00am to 5.00pm – on Sundays & Holidays.

All the 24 systems in the library, connected to the internet, are fully used.

4.3.9 Are the library services computerized? Does the institution make use of INFLIBNET/ DELNET/ other facilities? Give details.

- Yes. All the library services are fully computerized using barcode technology.
- Sona library is a member in INDEST, DELNET & IIM (B).
- The library uses auto Lib OPAC (online public access catalog),
 permitting users to search the library's online catalogue by author name title, subject and keywords.

4.3.10 How many days is the library kept open in an academic year? 345 How long is the library kept open per day –

During normal working days?

8.00 am to 8.00 pm – Monday to Saturday,

10.00am to 5.00pm – on Sundays and Holidays.

During examinations? There is no time limit for library. It will be kept open till the last student in the library leaves.

4.3.11 Does the library have an Advisory Committee? What are its functions?

YES. There is an advisory committee for the library. This committee focuses and addresses all aspects of the development of library.

4.3.12 Amount of money spent on new books, journals during the last five years?

2006 - 2007 - 17.13 Lakhs

2007 - 2008 - 41.01 Lakhs

2008 - 2009 - 17.92 Lakhs

2009 - 2010 - 20.59 Lakhs

2010 - 2011 - 40.00 Lakhs

4.3.13 How does the library motivate students/ teachers to read existing and new arrivals?

- New arrivals are prominently displayed at the entrance of the library.
- Better ambience is created inside the library for attracting more faculty and students to the library.
- "Best reader award" is given every year to a staff / students, who uses the library to the maximum extent.

4.3.14 What are the special facilities offered by the library to the visually challenged and physically challenged person? How are they used?

• At present, no facility is available. SONA plans to implement the same in the future.

 Library assistants help the physically challenged persons in issuing and receiving books.

4.3.15 List the infrastructural development of the library over the last five

years?

- NPTEL Video server is established.
- Anna Edusat facilities created
- Indo Us Programme launched

4.3.16 Describe various information services provided by the library?

(clipping, reference, etc.,)

- Circulation of books and journals
- Display of current events/information
- Bibliographic compilation
- E-Journal (Full-text) access.
- Reference
- SDI Service
- Reprography
- Computer and Printing
- Internet
- Digitalization
- Inter-library loan
- User orientation /information literacy
- INFLIBENT / DELNET.

4.3.17 Describe steps taken for making the library user friendly.

- More copies of popular books are made available.
- OPAC facility makes the job easier for users.

- Indexed stacking helps the user to reach a book quickly.
- Special book bank facility for SC\ST students
- Electronic bar coding simplifies the entry/exit procedures.
- Reprographic facilities are available.
- Flexible working hours of the library.
- Good ambience created inside the library.

4.4. ICT AS A LEARNING RESOURCE

4.4.1 How is the computer facility extended to all faculty & students?

- Computers are provided at every faculty Room. HODs, Professors and faculty doing R&D are given with separate computers. The entire campus is networked and internet connectivity is made available to all computers.
- Loans are arranged for the purchase of laptops for the students. In addition to the central computer centre, students can access computers in their own department and in library.

4.4.2 How is the faculty facilitated to prepare computer aided teaching / learning materials? What are the facilities available in the college for such efforts?

- Sona has a multimedia research centre called "Sonaversity", which publishes computer based text books for many courses.
- A CD will be available with the text book, for showing animations for understanding the concepts.
- The content for these text books and CDs is provided by our faculty members.

4.4.3 How many computers are there in the college?

1851

4.4.4 Is there a central computing facility? How favorable are its timings, access and cost to both students and faculty?

Yes, The Central Computer Centre is open between 8.30am and 8.00pm. Students and staff can make use of the facility for any kind of academic work free of cost.

4.4.5 How many departments have computers of their own? Specify the numbers.

FIRST YEAR LAB	-	153
SCIENCE	-	29
MATHS	-	10
ENGLISH	-	71
CIVIL	-	31
ECE	-	160
MECH	-	121
EEE(UG)	-	295
EEE(PG)	-	62
CSE/IT(UG)	-	391
CSE(PG)	-	70
FT	-	44
MBA	-	71
MCA AND MIS	-	159
SONAVERSITY – I	-	59
SONAVERSITY – II	-	24
LIBRARY	-	44
ADMIN	-	48
HOSTEL	-	9
TOTAL	-	1851

4.4.6 How are the computers and its accessories maintained in the department?

- A group of 12 technicians under a Senior Professor, is working exclusively for the computer maintenance.
- The Computers, printers, networking equipments and other accessories are periodically cleaned and checked for their proper operation.
- Breakdown Maintenance is carried out on computers and accessories, when they fail to operate as per the requirements.
- Preventive Maintenance is carried out on all the UPS units in the Campus.
- Above maintenance works are carried out in coordination with department level technicians.
- Antivirus softwares are installed in all the systems.

4.4.7 What is the output of the various departments in developing computer aided packages for their discipline?

Faculty members of different departments contribute the contents for various text books, published by our multimedia research unit "Sonaversity".

 Course materials and lab manuals for various courses are prepared by our faculty members and printed at "Sonaversity".

4.4.8 Describe the nature of internet services available to students and faculty.

 An 8 Mbps leased line internet bandwidth is made available to the staff and students of the entire campus. Faculty and Students can do any kind of academic related work using the internet during the working hours.

• Entire campus is being made Wi-fi

 An intranet MIS facility is available for the staff members to monitor the academic progress of the students.

4.4.9 How are the institutional website and web-based facilities used and updated for the benefit of teachers, students and other stakeholders?

 The College has a website <u>www.sonatech.ac.in</u> wherein the complete details of the institution with respect to admission, courses, infrastructure, R&D activities, industry institute initiatives etc., are provided.

 Details about the Alumni are separately published in a different web portal.

• The school of management has a website of its own.

 There is also a website, wherein the parents can check the weekly test marks of their wards.

 Individual E-mail IDs with Sonatech Domain Name are given to most of the staff members.

4.5 Other Facilities

4.5.1 Are there hostel facilities available on the campus?

Yes. Separate hostel facilities available for both Boys and Girls

4.5.2 Are there hostels for women students?

Yes. There are five hostels for Women students.

4.5.3 How many students stay in the hostel? How many rooms are there in the hostel? Is the accommodation sufficient to meet the demand?

At present, 800 Boys and 850 Girls stay in the Hostels.

For boys, <u>320</u> rooms are available.

For Girls, <u>240</u> rooms are available

Every year, new Hostels are constructed to meet the demand.

4.5.4 What facilities are provided in the hostel?

- Students of all the hostels are provided Library, Computing, Internet,
 Gymnasium facilities.
- Washing machines are provided in all the wash rooms of all the Blocks.
- Rooms are furnished with study table, chair, cot and fan.
- Sona Hostels provide hygiene vegetarian food.
- Televisions and home theatre systems provided.
- Phones are provided at every floor.
- Newspapers and magazines are circulated.

4.5.5 Does the institution have a health centre?

Yes. Sona has a health Center. The health centre of Sona has a full-fledged dispensary functioning in the morning from 11.00 am to 1.00 pm and in the evening from 4.30pm to 6.00pm. More than 500 students and 50 staff members derive the benefits of this facility every month.

4.5.6 What health care facilities are provided by the health center?

- Consultation, Medical checkup & treatment provided.
- Examination room and rest room facilities available.

- Mini Lab for blood sugar Test available.
- Physiotherapy treatment provided to the needy Students.
- Affiliated to three Multi-specialty Hospitals.
- Two doctors (including a lady doctor) and a nursing maid will be on duty at Health Centre.

4.5.7 Does the institution have canteen facilities?

Yes. Sona has four cafeteria that function well to serve the students and Staff Members.

4.5.8 Does the institution have a student centre?

Yes. The Students centre has a swimming pool (Semi Olympic size), music club hall, Yoga/ Meditation hall, Billiards room, Stationary/Fancy Stores, Cafeteria, Indoor games, gymnasium etc.,

4.5.9 Does the institution have a Placement Centre?

Yes. Sona has a Placement, Training and Welfare (PTW) Cell, functions with the primary aim of placing students in top-notch companies, even during the course of their study. Prior to placement, the PTW cell takes considerable efforts to train the students to come up to industry expectations.

The objectives of the PTW cell are manifold. They include:

- Developing the communication skills of the students.
- Developing their soft skills for facing the competitive interviews.

- Motivating them to develop their overall personality in terms of career planning, goal Setting and reskilling, qualities that will stand them in good stead even during their working lives.
- Motivating students to go for higher studies and guiding them to take competitive Exams such as CAT, GATE, TOEFL, GRE. GMAT and IELTS.

4.5.10 What are the physical and infrastructure facilities available for the sports and physical education centre?

OUTDOOR GAMES AND FACILITIES

S. No	FACILITIES	No.
1	Standard Track and Fields Standard 400-m Track High Jump / Long Jump pits	1
2	Football Field	1
3	Hockey Field	1
4	Cricket Field	1
5	Basket-Ball Court	1
6	Volley Ball Court	3
7	Handball Court	1
8	Badminton(shuttle) Court	4
9	Tennikoit Court	1

10	Ball-Badminton Court	2
11	Tennis Court	1
12	Cricket Net	1
13	Putting Green (Small Golf Course)	1

INDOOR GAMES AND FACILITIES

S.No	FACILITIES	No.	REMARKS
1	Swimming Pool	01	Half Olympic-Size (8 Lanes)
2	Yoga and Meditation Centre	01	
3	Gymnasium	01	Equipped with modern equipment and LCD TV.
4	Billiards Table	02	
5	Table Tennis Tables	07	
6	Carrom Boards	04	
7	Chess Boards	10	
8	Badminton Courts	02	
9	TV with DVD, Cable connection	01	
10	Library	01	CDs on coaching available

4.5.11 Does the institution have a workshop / instrumentation centre? What are the physical facilities available in the centre?

Yes. Sona has a Workshop/Instrumentation Center. Facilities available in the center, are listed below:

S.No	Name of the equipment	Quantity available
1	Jigsaw	1 No
2	Planner (80mm)	2 Nos
3	Circular Saw	2 Nos
4	Hammer Drill	2 Nos
5	Welding Transformer	5 Nos
6	Welding Both	5 Nos
7	Hand Shearing Machine	1 No
8	Gas Welding Set	1 No
9	Pillar Drilling Machine	1 No
10	Bench Grinder	1 No
11	Angle Grinder	1 No
12	Air Blower	1 No
13	Earth Furnace	2 Nos

S.No	Name of the equipment	Quantity available
14	Assorted components for plumbing consisting of metallic pipes, plastic pipes, flexible pipes, couplings, unions, elbows, plugs and other fittings.	15 Sets
15	Carpentry vice (fitted to work bench)	15 Nos
16	Standard woodworking tools	15 Sets.
17	Models of industrial trusses, door joints, furniture joints	5 Each
18	Arc welding transformer with cables and holders	5 Nos.
19	Welding booth with exhaust facility	5 Nos.
20	Welding accessories like welding shield, chipping hammer, wire brush, etc	5 Sets
21	Oxygen and acetylene gas cylinders, blow pipe and other welding outfit.	2 Nos.
22	Centre lathe	2 Nos.
23	Hearth furnace, anvil and smithy tools	2 Sets.
24	Moulding table, foundry tools	2 Sets.
25	Study-purpose items: centrifugal pump, air-conditioner	Each One
26	Assorted electrical components for house wiring	15 Sets
27	Electrical measuring instruments	10 Sets
28	Study purpose items: Iron box, fan and regulator, emergency lamp	Each One
29	Soldering guns	10 Nos.
30	Assorted electronic components for making	50 Nos.
31	Small PCBs	10 Nos.

32	Multimeters	10 Nos
33	Study purpose items: Telephone, FM radio, low-voltage power supply	2 each.

4.5.12 Has the institution drawn a master plan for campus development?

Yes, A master plan indicating the future plan has been prepared.

4.5.13 What other infrastructure facilities like conference rooms, common rooms, staff rooms, auditorium, parking sheds etc., are available in the college?

- Sona has two open air auditoria, two indoor auditoria, five seminar halls and four Conference Rooms.
- All these halls are provided with public address systems & LCD
 Projectors.
- Sona also has an excellent language lab to help students enhance their language skills.
- Sona has sufficient numbers of Staff cabins, common rooms, parking sheds etc,.

4.5.14 What are the communication facilities (Telephone, STD, ISD) available on campus?

Facility	Quantity
EPABX System Ericsson BP250	1 Exchange with 12 extension cards (extendable) and 1 PRI card
Intercom numbers	160

Outgoing facility	30 channels
Mobile phones	30
Coin-operated telephone boxes	7
Fax lines	4
UHF phones for securities	8

Note: All the intercom numbers have the direct inward dialing facility.

4.5.15 Describe the facilities like transport, electricity and water supply.

POWER:

POWER LEVE	L					
Campus	Sanctioned Demand	Details of Service				
College	500 KVA	High Tension service – 1.				
Hostels	269 KW	Low Tension service – 5.				
POWER BACK	KUP					
Campus	Total Capacity	Details of DG sets				
College	885 KVA	380 KVA – 2, 125 KVA - 1				
Hostels	330 KVA	125 KVA -1, 82.5 KVA-2,				
		40 KVA-1				

TRANSPORT:

- Sona College is easily accessible by public transport facilities.
- Bus Pass is provided to the students by the Govt. of Tamil Nadu.
- College has two mini-buses and five cars.
- The buses are used for industrial visits, NSS, NCC and YRC Activities.

WATER SUPPLY

Potable protected water supply is ensured for all the Students and Staff.
 Water Purifiers are placed at important locations of the college and Hostels.

4.5.16 Describe the nature of landscape developed including approach roads, garden etc. to contribute to ambience.

- Excellent landscape developed in the campus.
- 3200 tress of various speices are planted inside the campus.
- Non slushy cement concrete paver blocks with open joints, for the percolation of rain water, have been laid for the approach roads to different buildings.
- About 50% of the total campus area is developed as lawn/garden.
- 4.6 Best Practices in the development of infrastructure and learning resources.
- 4.6.1. Describe the best practices for the development of infrastructure and learning resource adopted by the college with reference to physical facilities and its maintenance / library as a learning resource / ICT as a learning resource and other facilities to create learning and ambience?

Physical facilities and their maintenance

Mr. Prasad Babu will be giving the response to this part (in consultation with the Secretary)

Library as a learning resource

 The Central Library houses a variety of resources including a sizable number of textbooks, reference books, technical journals, books/magazines for general reading, CDs on selected technical topics and video lectures on key management topics.

- Twenty-four computers with internet facility are available in the library and students are allowed to use them during their non-class hours.
- Books/references not available in the library are procured through the DELNET facility.
- Students are permitted to keep borrowed books for as long as they wish;
 there is no specific time-period for return of the books. Having a stock of additional volumes of frequently used books ensures that every student who needs a book gets one.
- All of the library transactions are user-friendly and performed electronically and instantaneously.
- The library has adequate and comfortable furniture for students wishing to read there and it is also free from noise or disturbances.
- The library is open on all week days from 8.00 am to 8.00 pm and on Sundays from 9.00 am to 5.00 pm.
- Besides the above, every department has its own library with books and reference books.

All of the above combine to make the library a very useful learning resource on the campus.

ICT as a learning resource

As stated in Section 2.3.4, Information and Computer Technology is used as a remarkable learning resource on the campus through the following facilities:

 The college's Learning Resources Development Centre (LRDC called Sonaversity) has come out with around 75 Computer-Based Training/Teaching (CBT) packages for most of the courses of the UG programmes. The CBT packages are used by teachers in the class and by students (at home).

- Special expert lectures are beamed to students via the EDUSAT connected with IIT Bombay, the INDO-US satellite program and Anna University, Coimbatore
- WEBCAST / WEBINAR programmes in collaboration with Infosys
 Technologies are used to enhance student learning of topics of current importance.
- Amrita's A-VIEW (Virtual Interactive E-learning World) facility: special expert lectures on engineering and technology are presented to student groups in collaboration with IIT-Bombay and Amrita University
- Video lecture tapes/CDs/DVDs of lectures by renowned academics from IITs, Harvard University, Stanford University, etc on emerging topics in the areas of engineering, technology and management, which can be used for large groups (in a seminar hall) of for small groups with a CCTV and cordless headphones (in the Central Library itself)
- The institution is in the final stages of installing a video-streaming facility by means of a 1.5-Terabyte NPTEL hard disc, consisting of video lectures by experts on a whole range of engineering and technology courses via an intranet that both students and staff can access anywhere on the campus.

Criterion V: Student Support and Progression

5.1 Student Progression

5.1.1 How does institution monitor student progression?

The students intake during the first year of establishment (1997-98), was 160. The present year (2010-11) AICTE approved intake is 1224 apart from 10% Tuition Fee Waiver Scheme, 10% Lateral Entry Scheme and 15% Foreign Nationals under supernumerary.

Steadily the year-wise intake and the campus strength of the institution are increasing. The present campus total strength is 4490.

The maximum campus strength is planned to limit to 5000.

5.1.2 What is the student strength of the institution for the current academic year? Give the data gender-wise, state-wise and nationality-wise.

Student strength for the academic year 2010-11 (Gender-wise)

	Yea	ar 1	Yea	ar 2	Yea	ar 3	Yea	ar 4	To	tal
Degree	Male	Female								
BE/ BTec h	494	401	553	391	490	399	525	299	2062	1490
ME	79	63	84	60					163	123
MB	90	78	64	63					154	141
MC	68	52	66	55	62	54			196	161
Total	731	594	767	569	552	453	525	299	2575	1915

Student strength for the academic year 2010-11 (Nationality and Statewise)

ree	Year 1		1	Y	ear 2	2	Y	ear	3	Y	ear	4	1	otal	
Degree	TN	os	ON	TN	os	O N	TN	os	ON	TN	os	ON	TN	os	ON
BE/ BTec h	821	2	72	909	7	28	850	5	34	780	7	37	3360	21	171
ME	138	4	-	141	3	-							279	7	0
MB	149	1	18	118	-	9							267	1	27
MC	120	0	-	119	-	2	116	-	-				355	0	2
Total	1228	7	90	1287	10	39	966	5	34	780	7	37	4261	29	200

OS- Other state, ON- Other Nation,

5.1.3 Details of the last two batches of students and their profile (General, SC,,ST, OBC etc.,) prefixing the Socio-economic profiles also.

Degree		Year	2009-2	2010	Year 2010-11						
	OC	BC	MBC	SC	ST	OC	BC	MBC	SC	ST	
BE/ BTech	668	1702	597	329	14	699	1827	650	360	9	
ME	17	131	66	43	-	31	161	52	42	1	
MBA	35	58	16	11	1	62	151	47	15	3	
MCA	7	111	43	14	-	26	202	98	30	-	
Total	727	2002	722	397	15	818	2341	847	447	12	

OC – Open category (General), BC – Backward community,

MBC - Most Backward Community, SC - Schedule Caste,

ST – Schedule Tribe

5.1.4 What percentage of the students on an average progress to further studies? (UG to PG and PG to Research) Give details for the last five years.

The percentage of UG students moving for PG degree is about 10-15%.

The percentage of PG students moving for Research is about 25-30%.

5.1.5 What is the dropout rate for the different years after admission?

The dropout rate after the admission is below 1 %.

In 2009-10, after the admission of 1348 students, 12 students have discontinued the course. The percentage dropout is 0.9%.

In 2010-11, after the admission of 1336 students, 11 students have discontinued the course. The percentage dropout is 0.8%.

5.1.6 What proportion of the graduating students have been employed for the last five years? Provide placement record for the last five years.

Year	Students Registered for Placement	Students Placed	Placement %			
2006	323	200	62			
2007	466	326	70.3			
2008	542	401	74			
2009	500	320	64			
2010	541	402	72.63			

5.1.7 How many students appeared/ qualified in UGC-CSIR-NET, SLET, IAS, GATE/ CAT/GRE/TOFEL,GMAT/Central/ State services Competitive Examinations. (last five years)

Academic	Ci	vil	Me	ech	EI	EE	E	CE	CS	SE	ľ	Т	F	T	M	BA	Mo	CA
Year	A	Q	A	Q	A	Q	A	Q	A	Q	A	Q	A	Q	A	Q	A	Q
2005-06	-	-	32	02	08	03	06	02	07	06	12	02	-	1	-	-	16	-
2006-07	15	11	31	04	08	-	21	07	03	01	10	01	ı	ı	ı	ı	10	ı
2007-08	10	08	57	03	11	03	31	01	10	09	13	02	ı	ı	ı	ı	32	ı
2008-09	08	06	56	03	22	05	31	04	03	03	14	03	04	04	01	-	36	02
2009-10	08	05	73	04	40	05	63	ı	15	05	10	02	03	03	02	02	40	03

A – Appeared Q – Qualified

5.1.8 Give comparative picture of institutional academic performance in relation to university average.

The University average is not available, however the Institution Pass Percentage and the number of Rank holders are listed below.

Academic Year	Pass Percentage	Number of Rank holders
2005-06	83	21 with 2 Gold Medal
2006-07	87	18 with 3 Gold Medal
2007-08	91	28 with 2 Gold Medal
2008-09	95	12 with 1 Gold Medal
2009-10	94	18 with 1 Gold Medal

5.1.9 Describe efforts made by the institutions to facilitate progression to employment.

- We arrange training programmes through leading companies like Infosys, Cognizant, WIPRO through which we update the students about the industrial expectations to increase the employable skills among the students.
- 2. Based on the above needs we conduct training programmes for the students in almost all the areas like communication, Aptitude skills and HR Interview skills regularly. We engage internal and external experts for training the students.
- We invite regularly our ALUMNI for training the juniors to bring more awareness about the present scenario and for making them employable.
- 4. We have tie-ups and MoU with leading Industries for conducting campus interviews at our campus.
- 5. We collect the feedback on the students performance in the interviews for the continuous development.
- 6. Our students participate off-campus interviews with the industries.

 Students can directly attend interviews at company premises.
- 7. Personality Development Programmes are conducted by internal and external resource persons to improve their soft skills.
- 8. Training programmes for students aimed at developing foreign language skills such as German, French and Japanese languages which will help the students to get abroad assignments.
- Placement directory has been created for contacting companies and inviting them for all the college functions and Graduation day, Annual day celebrations.

- 10. Corporate Relations office is being maintained to strengthen the relationships with Top, Medium and small size companies.
- 11. Assessment Tests are conducted periodically to review the performance of the students.

5.2 Student Support System

5.2.1 Does the institution publish its updated prospectus and handbooks annually? How is the information content disseminated to students?

Yes, the institution publishes its updated prospectus and calendar of events annually and issued to every student and staff. Also the same is uploaded in the college web portal.

5.2.2 Does the institution has a website? Give details on information available for students.

Yes, the institution has a website. Its web address is www.sonatech.ac.in.

The following information is available in the college website for students.

- Yearly calendar
- Programmes offered
- Admission policy, calendar and fees details
- Curriculum and Syllabi
- Regulations

- Academic and Infrastructure facilities
- Scholarship details
- Recruiters list
- Training Methodology
- Placement News and Details
- Placement Portal
- Alumni Portal
- Library details
- Internal Test marks
- Industry Coordinated Courses
- Non-formal Courses
- Research facilities
- Results and rank holders
- Information about Conferences, Workshops & Training Programmes.

5.2.3 Does the institution provide financial aid to students? Specify the type and number of scholarships/ freeships given to the students last year? What types of insurance covers are available to students?

Yes, the institution provides financial aid to students.

10% of the admitted BE and BTech degree students are getting Full Tuition Fee Waiver as per AICTE guidelines. All the first graduates in their family are getting Full Tuition Fee Waiver from Government of Tamilnadu. All the BC, MBC, SC, ST students are getting Government scholarships.

Apart from Government sources, the management sanction annually,

- Rs. 5.0 lakh for merit-cum-means category
 - Benefited 85 students last year
- Rs. 5.0 lakh for sports category
 - Benefited 104 students last year
- Rs. 1.0 lakh for physically-challenged and wards of ex-service man
 - Benefited 20 students last year
- Rs. 0.5 lakh for NSS, NCC and YRC category
 - Benefited 13 students last year
- Rs. 2.0 lakh for students lost their parents category
 - Benefited 9 students last year
- Rs. 8.0 lakh for best performance in University Examinations
 - Benefited 324 students last year

Group Insurance Scheme is implemented for all the students. The scheme cover accident benefit both to students and parents.

5.2.4 What types of support services are available to overseas students?

- Student's welfare on and off campus
- Guidance for Visa Processing, Eligibility Certificate and Equivalence Certificate
- Guidance in receiving the Government Scholarship
- Academic appraisal and communication with Parents
- Country wise cultural events for students

5.2.5 What support services are available to SC/ST students and differently abled students.

- Identification of deficiencies of each student at the time of entry and providing additional input by way of extra classes and courses in soft-skill development.
- 2. Extra classes for students who do not pass examination in one attempt
- 3. Imparting skills in letter writing
- 4. Communication of progress of the students to their parents
- Compiling past examination questions and making them available to the students
- 6. Compiling answers to frequently asked questions in the examination.
- 7. Assisting for obtaining scholarships from Government agencies under special schemes.
- 8. A book bank separately for SC/ST students in the Library is created.
- 9. All the buildings are provided with Ramps.
- 10. Toilet with special provision for differently abled students are created in all the buildings.

5.2.6 Does the institution offer placement and counselling services to students? Is there special counselling for women students?

We do counseling while admitting the students to make them more clarity in their selection of courses and about the available opportunities for the employment to the concern branch of study. We conduct counseling for finding out the real need of training through proper assessment, based on the same we prioritize the training sessions to students.

We do conduct the special counseling for women students based on the need and requirement.

5.2.7 Does the faculty participate in academic and personal counselling? How many have participated last year?

Every Faculty is allotted a specified number of students (around 15 in number), and they will conduct academic and personal counseling for the students once in two weeks. Around 200 faculty have participated in academic and personal counseling, called 'Faculty Advisor'.

5.2.8 Has the employment cell encouraged students to be self- employed during the last five years? What are its activities?

We have a separate cell called "EDC cell" for developing the attitude of entrepreneurship in Campus through various seminars and interactions with successful entrepreneurs.

CII – Tamilnadu organized a business competition in which one of our student awarded Rs. 10,000/- as cash PRIZE and the title of the same is Plan on updating twitter status via local sms

IIT has conducted a seminar on MY IDEA for developing the entrepreneurship thinking among the students in IIT –Chennai in March 2010. Our students participated and contributed valuable ideas during the seminar.

Two Days entrepreneurship awareness camp has been conducted on 19th&20th of Jan 2010 at Sona College campus and around three hundred students participated in the programme.

SONA Association for the Future Entrepreneurs - a forum SAFE is activated and it is organizing regular programmes by successful entrepreneurs to motivate and to share their experience to the young engineering minds.

Every year this cell conducts the ISTE sponsored entrepreneurship awareness programme for two days.

5.2.9 Does the institution have an alumni association? What are its activities?

Alumni Association has been formed for each department separately and every year Alumni Day is being celebrated in the college.

Alumni chapters are also functioning from Chennai and Bangalore.

Alumni are in regular touch with Placement Executives when they are in tour for meeting corporate professionals.

Alumni are being invited to visit the college for students interaction and training to develop the students to meet the industrial expectations.

They are helping their juniors whenever companies are announcing for conducting interviews through their employee reference.

5.2.10 List the names of top 10 most renowned Alumni of the college along with their designation?

S.No	Name	Branch &	Current status
		Batch	
1	Mr.P.L.Ashok Kumar	IT & 2002	Sr.System Design Engineer,
			Microsoft Corporation, USA
2	Mr.P.Pattabiraman	CSE & 2001	HR Manager, Scope
			International Ltd, Chennai
	Mr.G.Senthil Balaji		Completed his Ph.D in
			Mathematics from Clemson
3		ECE &2003	University and currently
			pursing his Ph.D in Optics
			from the University of
			California , USA
4	Mr.Kalimullah	ECE & 2006	Sr.Network Engineer in Dubai
4			Telecom Ltd, Dubai
-			Sr. Quality Engineer, Yahoo
5	Mr.V. Karthikeyan	IT & 2007	India, Bangalore
6	Mr.Valleeswaran	IT & 2004	Sr.Qualtiy Engineer, Flipkart
			Ltd, Bangalore
7	Mr.S.R.Sharfudeen	FT & 2004	Asst.Manager, Reliance Retail
,	THE STREET	11 & 2007	Business, Bangalore

S.No	Name	Branch &	Commont status
		Batch	Current status
8	Ms.E.Krithiga	EEE & 2008	Engineer, BHEL, Trichy
9	Mr.M.Mohammed	CIVIL&2008	Executive(Power Plant),
	Harex		L&T, Andhra Pradesh
10	Mr.V.Obuli Raj	MECH&2006	SAP Consultant, Schneider
			Electric , Bangalore

5.2.11 Are the alumni contributing to the development of the institution? Specify how?

Regular Meetings are conducted through Alumni Chapters in Chennai and Bangalore and the placement department gets lot of information about the industries expectation and updates.

Alumni are being used to get the information about their employers need for the fresher's recruitment and commencement period.

Alumni are visiting the college for encouraging the juniors at various occasions and celebrations and they contribute a lot for building confidence and providing guidelines for making the effective projects among the students.

5.2.12 Does the institution have a grievance redressal cell? What are its functions?

Yes, the institution have a grievance redressal cell.

The cell is headed by Dr.K.Karunakaran, Dean and totally 5 members from various sections are representing. Anti Ragging Committee also in coordinate with this cell for redressal against the grievances of students.

The functions of the grievance redressal cell are

- Students with grievances like problems in relationship with other students/staff/parents, communal race issue, etc. can make representation to any of the member at any point of time.
- 2. Every Friday between 4 pm and 5 pm, the members should meet and discuss the action plan against the grievances filed by students (Venue : Dean Office, First Year Block).
- 3. The action taken on grievances should be forwarded for every 3 months to 'The Director, Centre for Student Affairs, Anna University of Technology Coimbatore' periodically with the approval of the Principal.

5.2.13 List the Number of grievances redressed during the last 2 years.

Mechanical

- Usage of computer lab after working hours with internet connection has been provided.
- 2. A special coaching class has been arranged for weak students.
- 3. Utilization of department library was included in the time table slot.
- 4. Placement training classes has been arranged to improve the aptitude and verbal skills of the students.

EEE

- Requirement of more class rooms for UG Students and the same has been provided.
- 2. To increase more number of text books / reference books in college and department library and the same provided.

3. To have more Internet connectivity in department computers and the same provided.

General

- ME degree students requested to speed-up their receipt of GATE scholarships from AICTE and the same has been taken taken-up and provided.
- 2. Students of I year Civil Engineering have requested for better classroom atmosphere and the same was fulfilled.
- 3. Foreign National students have requested to change the University Sports norms to enable them to participate in the University Sports and Games and the same has been initiated.

5.2.14 Is there a provision for welfare schemes for students? If yes, give details? Yes, there are several welfare schemes available for students.

Group insurance scheme is implemented for all students.

- Management provides scholarships to meritorious students, merit cum means basis, sports category, differently abled students, wards of defense personnel categories to a sum of Rs 60 lakhs per annum.
- Awards for 100% attendance, performers in Tests, Semester exams, University Rank holders and Best outgoing students.
- Students are encouraged to participate in extra- and co-curricular activities. Students are provided with TA and Registration for participation in National and International competitions.
- Concessional hostel facility for poor students.

- Grievances are addressed through Grievance cell.
- Student Welfare Officer, Class Counselors and Faculty Advisors take care of counseling of the students.
- Medical assistance is provided for free of cost.
- Placement and training opportunities are provided.

5.2.15 Is there a cell to prevent Sexual Harassment? How effective is the cell?

Yes, there is a cell called "Women's Grievances Redress Cell" functioning in our college with the following officer bearers.

- 1. Dr. M. Usha (Chair Person)
- 2. Dr. M. Renuga (Secretary)

This cell conducts programmes for girl students to bring in awareness about gender abuses. The committee members meet at regular intervals. We are happy to say that so far no such case or issue has been found in our college.

5.2.16 What are the efforts to provide legal literacy to women?

There is a club called 'Women's Development Wing' functioning successfully for the overall personality development of girl students in our college. The club was established in 1997.

The club has the following office bearers:

- Staff Co-ordinators
- Chair Person
- Secretary
- Joint Secretary and

Organising Committee Members

The club conducts various awareness programmes and skill development programmes. For example, last year the club conducted a **forty eight days** programme for **Kungfu and Taichi**. The club also organises legal literary programmes by way of guest lectures by famous counsellors like Dr. Saraswathi Bhaskar, Dr. Arthi Rajarathnam, Police personal like

Ms. Anusuya Ernest and eminent personalities like Saradha Nambi Arooran, Dr. Tara Thiagarajan and Smt. Lathika Pai. Such programmes are conducted every year under the auspices of Women's Development.

5.2.17 What are the support services made available for differently abled Students?

- Ramps with slope of 1 in 12 are provided at the entry of each building
- In each Toilet Block, near the entrance, one water closet with a bigger size is provided
- As far as possible, a classroom with a differently abled students is conducted in the ground floor
- Barrier free access is provided in all the floors of the buildings for easy access to the classrooms, laboratories, toilets, etc.
- National Building Code (NBC) and local authority/town planning guidelines are followed in providing the above facilities
- All the differently abled students are provided with full tuition fee waiver or partial tuition fee waiver in addition to Government Scholarships.

5.2.18 What specific measures has the institution taken to enhance the quality of education with reference to student support and progression?

The specific measures are

Infrastructure

- Bright and airy class romms
- State-of-the-art laboratories
- Well-stacked library
- Medical facilities
- Hostel facilities
- 1:14 staff student ratio
- Education through EduSAT, IIT Bombay Live, multimedia, ...
- Spacious sports facilities with swimming pool, golf, gym, yoga, music, billiards, etc..

Research & Development

 22 R&D centres and Centres of Excellence in specific areas for research, training and development

Financial Support

- scholarships to meritorious, merit cum means, sports and special category students
- recognizing students who have got 100% attendance.
- Cash awards to good performers in Tests, Model exams

- Cash awards to students who have got First three ranks in the University exams
- Cash awards to all University rank holders
- Cash awards to Subject-wise toppers
- Department-wise 'Best outgoing student' awards

Others

- Training towards placement
- Industry Tie-ups for Industry need training
- Guest lecturers from eminent scientists/scholars/professors
- Encouragement towards extra- and co-curricular activities.

5.2.19 What are the health services available to students such as resident doctor, group health insurance scheme etc.

Medical centre is functioning in the institution with 3 doctors including two lady doctors and a nurse maid. Services like consultation, first aid and medical check-up are being provided. The nearby hospitals namely Gokulam Multi-Specialty Hospital, Shanmuga Multi-Specialty Hospital and Pranav Multi-Specialty Hospital are affiliated for further treatment.

Further to medical assistance, Physiotherapy, Yoga treatment and Blood sugar testing are also provided to students and staff.

All the staff and students are provided with group health insurance with Bajaj Insurance Co Ltd.

5.2.20 Describe the safety measures provided by the institutions like security and adequate lighting etc.

Fire extinguishers are provided at the following places of the institution.

- Powerhouse
- Generator rooms
- Laboratories, Library and Workshops
- Office
- Residential areas in the hostels
- Hostels
- College cafetaria
- College buses

All staff and students trained in safety management every year through

- Lectures, Live Demonstrations by District Fire Authorities
- All fire-extinguishers are serviced periodically.
- First aid kits kept at accident-prone places

Measures on Road Safety are

- Vehicular movement controlled by Security Personnel
- Parking of vehicles done in an orderly manner
- Road safety sign boards kept at strategic places
- Barricades, Speed breakers used to direct and control traffic
- All staff and students are given Road safety awareness programme by the District Traffic Authority.
- The practice of rule of Helmet implemented

- Proper fencing for high tension electrical equipment
- Lightning arresters for electrical installations and building
- Proper overload and earth fault protections
- Rubber mats for all electrical distribution board
- Proper Earthing arrangements for electrical installations
- Use of ISS Certified materials for electrification
- Periodical testing of protective equipment
- Underground cable distribution throughout the College and Hostel campus
- Periodical Preventive maintenance works for electrical equipment
- Use of Rubber gloves for operation of switches
- Maintenance of First –aid box and fire fighting equipment
- Periodical training for operating staff
- Prohibited area Sign Boards displayed
- Use of Helmets for Construction people
- Security officer and persons are deputed for the institution to monitor.
- Surveillance cameras are fixed at various places to monitor.

5.3 Student Activities

5.3.1 What are the various student cultural activities organized?

Sona's 'Fine Arts Club' was inaugurated in the year 1997. This club brings out the hidden talents of the students by conducting various cultural

events and music programmes. 'SONATA', a cultural fiesta celebrated by our Sona family every year is a time and chance to refresh our minds and revitalize our talents.

The club has the following office bearers

- Staff Coordinators
- Chair Person
- Secretary
- Joint Secretary and
- Organising Committee Members

A Musical Programme by Airtel Super Singers Nikhil Mathew and Ajesh conducted on the 10th of March, 2010 had a good appreciation from the students and staff.

5.3.2 Furnish information regarding the participation of students in extra curricular activities and co-curricular activities?

Sona fine-tunes the personality of our students by promoting various Co-curricular and Extra-curricular activities.

Following are the units activated for enhancing the extra-curricular activities.

- NCC National Cadet Crops
- NSS National Service Scheme
- YRC Youth Red Cross
- RRC Red Ribbon Club

- EDC Entrepreneurship Development Cell
- Fine Arts Association
- Sonaria Music Club
- International Student's Club

These units organize programmes like seminars, conferences, firing camps, drill practices, personality development programmes and voluntary service activities.

Social service activities are also taken up like tsunami relief operations, eye camps, blood donation, vaccination camps, mass immigration, health awareness, AIDS eradication programme etc..

Following are the clubs functioning in Sona to motivate the students to participate in co-curricular activities and enhance their inherent talents.

- Women's Development Wing
- Ripples
- Tamil Mandram
- Aptitude and IQ Club
- English Literary Club
- Science Club
- Tremors Club

Almost all the students become members of atleast one of these clubs and showcase their talents

5.3.3 What are the incentives given to students who are proficient in sports?

Good number of students with sports achievement are considered for admission under sports quota.

Anna University conducts zonal level and inter-zonal level tournaments to students. Students are actively participating in all events.

Total sum of Rs. 5.0 Lakh is allotted as scholarships for sports students, which include full tuition fee waiver, partial tuition fee waiver and free hostel accommodation.

Participation in open competitions are also encouraged both in national and international level.

10% attendance waiver is provided to sports students.

5.3.4 Give details of the participation of students in sports and the outcome, at the state, regional, national and international levels, during the last five years?

Academic Year	University Zonal Level	University Position (State)	National Level	International Level
2005-06	Overall Champion	I Place – 2 II Place – 6 Players -14	II Place – 1 event (Ball Badminton Women) Players -1	-
2007-08	Overall Champion	I Place – 1 II Place – 4 III Place –2 Players -11	Players -1	-
2008-09	Overall Champion	I Place – 2 II Place – 5 III Place - 3 Players - 9	Players -2	-

Academic Year	University Zonal Level	University Position (State)	National Level	International Level
2009-10	Overall Champion	I Place – 4 II Place – 3 III Place 2 Players -12	II Place – 2 (Fencing, Volleyball) III Place – 2 (Power Lifting) Players -4	III Place – 1 (Power Lifting) held at Mongolia

5.3.5 Does the institution collect feedback from students? Describe the mechanisms and using it for improvement?

Yes, the institution is collecting feedback from students.

The feedback mechanism consists of:

- Collection of Data from departments requesting details of subject allocations for Faculty.
- b. Obtaining feedback from students in the standard format.
- Consolidation of feedback got from the students and grading of Faculty.
- d. Generating and issuing 'Letters of appreciation' for Faculty who have got 'A' and 'B' grades.
- e. Arranging for 'Team Teaching' and 'Counseling' for Faculty who have got 'C' grades.
- f. Arranging for 'Pedagogy' programmes' for Faculty who have got 'D' grades.
- g. Evaluating the effectiveness of corrective action taken on nonperforming Faculty.

Class committee meetings are conducted atleast twice in a semester which gives direct feedback about the system of teaching-learning.

This mechanism would enhance the quality of teaching-learning process.

5.3.6 Describe the steps taken for encouraging student participation in institutional activities.

Students are the coordinators for the following associations / clubs

- Fine Arts Association
- Women's Development Wing
- Ripples
- Tamil Mandram
- Aptitude and IQ Club
- English Literary Club
- Sonaria Music Club
- Science Club
- International Student's Club
- Tremors Club
- Sports Club

Students performing well in extra and co curricular events are awarded as the best outgoing student of the year.

5.4 Best Practices

5.4.1 Describe the Best practices of the college, in terms of student support / student progression related activities

Students are the organizers and coordinators for the student related activities/clubs.

- Students are encouraged to involve in research projects.
- Students are encouraged to participate in national level and international level competitions/workshops/seminars.
- 'Best Outgoing Student' awards for a male and a female student from each department based on academic achievement and cocurricular & extra-curricular.
- University Rank holders are awarded with up to Rs 50,000 cash.
- 95% attendance holders will be Rs 500 cash for every semester in the name of 'Appreciation Award'.
- Large amount of scholarships for needy students.
- Bank loans are organized in the college premises.
- Student evaluation of the staff members.
- Training methodology for the personality development and placement.
- Yoga and Counseling for the needy students.

Criterion VI: Governance and Leadership

6.1 Institutional Vision and Leadership

6.1.1 Does the Institution have a mission statement and goals in tune with the Objectives of Higher Education?

Yes. The Vision and Mission Statements of the Institution are as stated below

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 provide Graduate, Post-graduate, Doctoral and other value-added programmes beneficial for the students
- To provide state-of-the-art 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, competitive exams,
 and other value added programmes for their holistic development

- To provide opportunity to the students to 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 and testing services
- To offer Continuing education, and Non-formal vocational education programmes which are beneficial to the society

6.1.2 What are the leadership functions of the Head of the Institution? How is the leadership system established in the college?

"Principal" is the Head of the Institution. He performs the following activities

- Plans for the development of the Institution
- Executes the objectives of the governing body
- Liaises with DOTE/AICTE/University/UGC, etc.
- Ensures infrastructure and other mandatory resource requirements
- Ensures Faculty and Staff recruitment and monitors HR activities
- Monitors academic activities
- Monitors co-curricular and extra curricular activities
- Ensures discipline in the college.
- Motivates Staff in realizing Objectives
- Ensures Budgetary allocation for the department activities
- Conducts periodic review meetings with HODs
- Ensure research activities among the students and staff
- Ensures other continuing education and other activities related to social activities

Major activities carried out by the departments shall be done with the approval of the Principal. All Approval letters should bear the signature of the concerned Head of the department, and the Principal. This way, the leadership system is established.

6.1.3 What measures are taken by the institution to translate quality to the functioning of its various administrative and academic units?

To translate quality to the functioning of its various administrative and academic units "Quality Objectives" consistent with the quality policy are formulated in measurable terms in different functional areas at both the Institution-level and department-level.

The Heads of the Departments and sections-in-charges ensure that the objectives are achieved within the stipulated time interval. The status of attainment of Quality objectives are reviewed and if necessary revised during "Management Review Committee" (MRC) meetings conducted as part of "ISO - Quality Management System" (QMS) requirements.

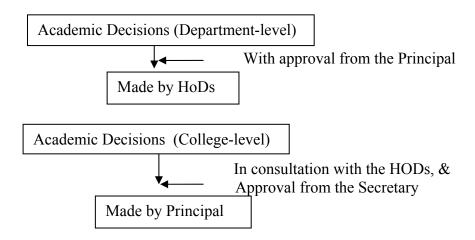
6.1.4 How are the faculty involved in decision-making?

- Department level decisions are taken by the Heads of the Departments in consultation with the teaching faculty.
- Any major decisions pertaining to the departments are finalized by the Heads of the Departments with the approval of the Principal and the Secretary.
- HODs and Senior faculty are members of the various committees constituted for the effective functioning of the institution like advisory council, academic council, Board of Studies, Planning and Evaluation

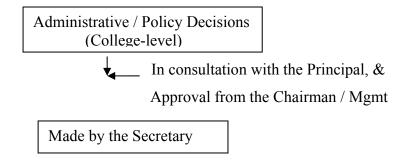
committee, etc., and their opinions are sought before any major policy decisions are finalized.

6.1.5 Give a flowchart of academic and administrative decision making process.

ACADEMIC DECISION-MAKING PROCESS



ADMINISTRATIVE DECISION-MAKING PROCESS



6.1.6 Describe reforms in the management techniques employed and efforts to value employee's contribution.

Every department acts as an autonomous unit, with the Heads of the Departments being delegated powers to take decisions related to their department. This makes them separate 'Strategic Business Units' (SBUs), and so ensures quick decision making and efficient functioning. The HODs

shall be solely responsible for the performance of the department in academic and other activities.

Employees are motivated for their contribution, as under:

- Giving increment for upgrading Qualification
- Giving financial support for Presenting / Publishing papers in National /
 International Conferences / Journals
- Giving incentive for Involving in R & D work and Patenting or Commercialization
- Giving incentive for involving in the Industry-Institute Interaction activities of the College and Department
- Giving cash awards for showing good performance in Academic results
- Giving cash awards for making special contributions to the Department /
 College

The increments and incentives are sanctioned by the Management under recommendations by the HODs, HRD and the Principal.

6.2 Organizational arrangements

6.2.1 Give the organizational structure and details of the units of the statutory bodies?

The Organizational structure is enclosed herewith.

The various Statutory bodies and their functions in brief, are as follows:

• Governing body

(which formulates Policy regarding Academic and Administrative matters)

• Academic Council

(which works out detailed activities regarding academic matters)

Board of Studies

(which decide the Curriculum and Syllabi)

• Finance Committee

(which decide matters related to finance)

• Examination Committee

(which decide matters related to the conduct of Exams)

• Planning and Evaluation Committee

(which is responsible for Planning and evaluating the functioning of the depts.)

• Grievance Appeal Committee

(which addresses the grievances of the students)

• Admission Committee

(which decides on policies regarding student admissions)

• Library Committee

(which decide on the functioning of Library)

• Student Welfare Committee

(which addresses the Welfare activities of the students)

• Extracurricular Activities Committee

(which decide on the Extracurricular activities)

• Academic Audit Committee

(which plans for audit of the departments)

• Research and Development Committee

(which plans and execute R & D activities)

• Anti Ragging Committee

(which addresses issues related to ragging)

• Sexual Harassment Committee

(Which addresses issues of harassment of the weaker section)

6.2.2 Give details of the meetings held and decisions made, regarding finance, infrastructure, faculty, academic research, extension, linkages and examinations held during the last year?

Every year, we are conducting the meeting for Finance, Infrastructure, Research and Examination. The details of minutes of meeting are given below.

Finance:

In Finance committee, the Principal is Chairman, one member from Management, one member from Accounts department and a senoir faculty from each department is organized.

The committee meeting is held on 10th March 2010 at 11.00am in main conference hall, to discuss the Budget for the year 2010-11, Grand from funding Agencies, Proposal submission for fees committee and Revision of Budget 2009-2010.

Infrastructures:

Planning and Evaluation committee is organized a meeting for infrastructure on 20th April 2010 at main conference Hall. In this meeting the Committee is decided to plan the infrastructure facilities for each department. The committee recommends the construction of new building and lab facilities for the forth coming year based on the requirement from each department. In this students also invited to give suggestions and grievances to improve the infrastructure facilities.

Faculty:

Faculty meeting is conducted twice in year with the Management, HOD's and faculty members at PG Auditorium, to discuss the facilities and pay revision. In this meeting the faculty may raise the questions, regarding their difficulties and requirements in handling the subjects.

Academic Research, Extension:

A committee is organized for research activities, in this committee the Principal is the chairman and all the HOD's are members.

This committee meeting is organized twice in a year, where to discuss the proposal submission for AICTE, DST, DIT, UGC etc... and requirement for conducting research activities and encourage the staff to attend national level seminars, papers to be published in reputed Journals, conducting sponsored seminars, workshops, SDP etc..The committee chairman requested all the HOD's to concentrate on research collaboration with industry, other colleges, universities and foreign universities.

Examination:

This committee consists of the Controller of Examination, a Deputy Controller of Examination and Section Officers to discuss the schedule for date of Examination, preparation of question papers, conducting the examination with external faculty members and result publication. This meeting is conducted twice in a year, last year we have conducted on 28.09.10.

6.2.3 How frequently are the meetings of the different statutory bodies held?

Describe coordination among bodies like BOS, AC, EC etc.

Frequencies of the meetings are as follows:

• Governing body meeting : Once in a year.

• Academic Council meeting : Once in a year.

• Board of Studies meeting : Once in a year.

• Finance Committee meeting : Once in a year.

• Examination Committee meeting : Once in a year.

• Planning and Evaluation Committee meeting : Twice a year

The decisions taken at the Governing body meeting, is implemented in the Academic council and Finance committee.

The Decision taken at the Board of Studies meeting of each department, is approved by the Academic Council, and also intimated to the Examination Committee.

The Planning and evaluation committee ensures implementation of the decisions taken and objectives set.

6.2.4 What percentage of the management council's resolutions were implemented during the last year?

Almost all the resolutions passed in the Management Council meeting, were implemented last year.

6.2.5 How is the administration decentralized?

The decentralization of administration is as follows:

- "Secretary" is responsible for framing policies, creating infrastructure and administering and steering the organization towards growth.
- "Principal" looks after Academic and general administrative activities of the whole college.
- "HODs" take care of the functioning of their respective departments.

6.2.6 Does the institution have an effective internal coordination and monitoring mechanism? Specify.

The Institution has 'ISO – Quality management system' implemented, and 'Quality Objectives' are formulated in measureable terms which are consistent with the 'Quality Policy' of the institute, in almost all the functional areas and for major activities both in the academic and administrative areas. The status of achievement of the Objectives are monitored every semester, through 'Internal Quality Audits' conducted.

6.2.7 How many times does the management and staff meet in an academic year?

The Management and staff meet at least once in 2 months to discuss about academic and administrative issues.

6.2.8 What are the informal/decentralized organizational arrange -ments made by the institution for effective governance?

The various informal / decentralized organizational arrangements made by the institution for effective governance, are as under:

- Each HOD / Section head is empowered to take decisions regarding their department on their own (with intimation to the Principal if needed).
- Also, every HOD / Section head is empowered with financial independence - to spend up to a certain limit - for the department purpose.
- Principal is also empowered with financial independence to sanction funds up to a certain limit.
- Any Faculty, Staff or Student can meet the Secretary regarding any special issue or grievance.
- Apart from all these, Suggestion boxes are kept in all departments for students to intimate their grievances without being identified.

6.3 Strategy development and deployment

6.3.1 Does the institution have a perspective plan for institutional development? How is it made?

Yes, the Institution has a perspective plan for institutional development.

The following are the objectives of the perspective plan.

- Go in for more Post Graduate programmes
- Go in for additional intake in existing programmes
- To enhance Institutional Centres of Excellence, to carry out research, testing, consultancy, industry-linkages, continuing education, etc.
- To obtain Deemed University status.
- To have Collaboration / Tieup with Foreign Universities

The perspective plan is made by the Management and Secretary, in consultation with the Principal, HoDs and other Senior Faculty.

6.3.2 Describe strategic action plan and schedule for future development.

Future development:

- Infrastructure development including a new Administrative block
- Obtaining Deemed University status in 2 years
- Collaboration with Foreign Universities
- Establishing Research centres and strengthening Research activities

6.3.3 Does the Institution have an academic calendar? How is it prepared?

Yes the Institution has an academic calendar. The procedure for preparation of the calendar is as follows:

- Designating Faculty / Staff by the Principal for preparation of calendar
- Collecting the below mentioned inputs/schedule from HODs and other
 Section heads:
 - College events and activities
 - Class committee meetings
 - Test and Model exams
 - Co-curricular activities
 - Extra curricular activities
 - Placement / Soft skills training
 - Any other meetings
 - Reviewing draft copy and approval of final draft

6.3.4 During the last five years, specify how many plan proposals were initiated / implemented ?

During the last five years, the following plan proposals have been initiated and implemented:

- 1. Increasing intake of students
- 2. Getting NBA accreditation for the programmes
- 3. Establishing Research Centres
- 4. Offering Value added courses through Continuing Education Centre
- 5. Offering courses through Sonaversity
- 6. Teacher evaluation and training
- 7. Students monitoring, motivation and welfare

6.3.5 What are the initiatives taken by the institution to make optimum use of the autonomous status?

The Institution has made optimum use of the autonomous status by taking the following steps:

- Revision of curriculum and syllabi by involving Industry experts
- Giving more importance to practical knowledge
- Timely announcements of results
- Timely conduct of supplementary examinations for reducing arrears and enhancing performance
- Offering more electives with industry collaboration

6.3.6 Has the college conducted an academic audit? Give details.

Yes, the College is an I.S.O. certified institution, and has a Quality Management System in which "Internal Quality Audits" are conducted every semester. All the departments and programmes offered are audited by 'Internal Quality Auditors', using a Check-list, which covers all academic activities.

Apart from this, external audits by the University are organized by the college, twice a year.

6.3.7 Describe the institutional approach for decision-making and deployment

Decision-making at the department level is done by the 'Heads of the Department' with the concurrence of the 'Principal' and the 'Secretary'.

Decision-making at the college level is done by the 'Chairman' and the 'Secretary' with recommendations from the 'Principal', and if need be, in consultation with the HODs.

6.4 Human resource management

6.4.1 How is the staff recruited? Illustrate the process of manpower planning?

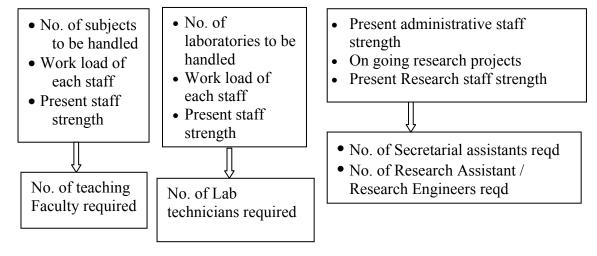
The recruitment process of the faculty members is as follows:

- a. Releasing advertisements in print media regarding vacancies
- **b.** Scrutinizing and short listing candidates.
- c. Conducting Interviews of candidates by a panel of members, consisting of senior staff members from the departments concerned, and if need be, outside external experts.
- **d.** Presenting the candidates to the Principal.

Based on the recommendation from the Principal & HODs, recruitment will be approved by the Secretary

Manpower Planning

A. Teaching B. Technical Staff C. Administration & Research



Total Manpower required = A + B + C

6.4.2 How do you assess the need for staff recruitment?

The need for staff recruitment is assessed based on the following criteria:

- No. of subjects to be handled for own and other departments
- Workload of each staff member
- AICTE Norms for workload and staff-student ratio
- Present staff strength
- Other requirements

6.4.3 What percentages of faculty are recruited from other institutions?

Around 80% of our Faculty are graduates from other Institutions.

6.4.4 What is the ratio of teaching to non-teaching staff?

The ratio of Teaching to Non-teaching staff is "1:0.6"

6.4.5 Describe the strategy to attract and retain talented faculty in aided/self financing courses?

To retain talented faculty, Faculty are motivated by giving various awards, as stated below:

Awards for:

- Producing 100% and more than 95% results
- Producing University ranks (within top 50 ranks)
- Carrying out research activities
- Offering facilities to carry out research
- Publishing research papers in refereed national and international journals
- Getting grants and funds from funding agencies
- Special awards for exceptional service
- Service above 8 years in Sona
- Completion of 8 years in service at Sona

6.4.6 Are the Government of India / State Government Policies on recruitment followed in terms of reservation and qualification norms?

Qualification norms stipulated by the Government of India / State Government are followed on recruitment.

6.4.7 Does the institution appraise the performance of the non-teaching staff? Specify.

The institution appraises the performance of non-teaching staff through the following methods:

- Conducting exams for non-teaching staff
- Getting oral feedback from the HODs about their performance

6.4.8 Does the institution have a 'self-appraisal method' to evaluate the performance of the faculty in teaching, research and extension programmes?

Yes the institution have a self-appraisal method to evaluate the performance of the faculty in teaching, research and extension programmes.

6.4.9 Are there any complaints, inquiries or legal suits pending against the functioning of the institution? Please give details.

No. There are no complaints, inquiries or legal suits pending against the functioning of the institution.

6.4.10 Has there been any study conducted during the last five years by the college / government or by any other external agencies on the functioning of any aspect of academic and administrative unit? Give the details and enclose the reports.

The External agencies which have conducted a study on the functioning of the academic and administrative unit of the Institute is as mentioned below:

- Anna University, Coimbatore
- Bureau VERITAS Certification India

The reports of the last external audit conducted, are enclosed herewith.

6.4.11 Has the institution conducted any programme for skill upgradation and training of the non-teaching staff based on the performance appraisal?

Yes. The Institution has conducted programme for skill upgradation and training of the non-teaching staff.

6.4.12 Does the institution conduct staff development programme for the teaching staff? Illustrate.

The Institution regularly conducts 'Pedagogy' programme for the teaching staff, at least once in a year. The details of Pedagogy programmes conducted, and the number of participants attended is given below:

S.No.	Particulars of	Period	No. of Faculty
	Programme	1 errou	attended
1	Pedagogy	21-1-2008 to 25-1-2008	12
2	Pedagogy	6-5-2008 to 14-5-2008	17
3	Pedagogy	3-11-2008 to 8-11-2008	18
4	Pedagogy	10-11-2008 to 15-11-2008	17
5	Pedagogy	15-6-2009 to 20-6-2009	25
6	Pedagogy	11-10-2010 to 15-10-2010	24
7	WIPRO - Mission 10x Faculty empowerment workshop	7-9-2009 to 11-9-2009	18
8	WIPRO - Mission 10x Faculty empowerment workshop	8-2-2011 to 12-2-2011	18

6.4.13 Has the faculty been introduced to the use of computers, Internet, audio-visual aids, computer aided packages etc.,?

Yes. Every department has got computers with internet connectivity for exclusive use of faculty. It is ensured that every Faculty member is allotted a separate Computer. Periodic training is given by MIS Department for use of computers and internet.

Also, every department is equipped with "LCD" and "Overhead" Projectors, for use by Faculty. Faculty members regularly make use of it for making Presentations to the students during teaching.

6.5 Finance Management and Resource Mobilization

6.5.1 Provide details of the budget for the last financial year.

S.No	Particulars	Amount (Rs in Lakhs)					
A). Re	A). Revenue						
1	Fee Receipts from Students	2100.00					
2	Consultancy, Testing and Con.Education etc.,	150.00					
3	Grant from AICTE / DST / other Govt. Bodies	50.00					
	(Under Research and Modrob Scheme)						
4	Sale of Application, Bus fee, etc.,	12.00					
5	Interest on Endowment and other Deposits	18.00					
	2330.00						
B) Ex	penditure						
1	Staff Salary	1200.00					
2	Maintenance, Electricity, Sports, Examinations,	260.00					
	Student Amenities etc.,						
3	Academic activities of departments, Laboratories	160.00					
	etc.,						

S.No	Particulars	Amount
5.110	r ai ucuiais	(Rs in Lakhs)
4	Contingency / Miscellaneous expenses	40.00
5	Management Scholarship to students	50.00
6	Library Books and Journals	50.00
7	Equipment, Research, Teaching Aids, Seminars etc., (Includes Computer Systems and Accessories etc for Rs.100 Lakhs)	300.00
8	Buildings	350.00
9	Furniture & Fittings	70.00
	Total(B)	2480.00
	Deficit (A-B)	-150.00

6.5.2 Is the operating budget of the institution adequate to cover the day-to-day expenses?

Yes, it is adequate to cover the day-to-day expenses.

6.5.3 Is the maintenance budget of the institution adequate with reference to its assets?

Yes, it is adequate the maintenance budget with reference to its assets.

6.5.4 How the budget is optimally utilized?

Every Year the finance committee plan the budget according to the maintenance, expenditure of the college, if necessary the management will contribute the requirement. This is the way the budget is optimally utilized.

6.5.5 Does the institution have a mechanism for internal and external audit? How regularly it is done?

Yes, the internal audit is done by the finance committee and the external audit is done by the reputed auditors.

6.5.6 What are the current tuition and other fees?

PART I Account- A

Tuition Fee (per annum)	Rs.40,000
(for all branches of Government iAllotment)	
Tuition Fee (per annum)	Rs.62,500
(for all branches of Management Quota)	

PART II Account – B (To be sent to University)

(One times during admission)	
Account-C (Towards expenditure to students)	

Students Insurance (per annum)	Rs. 100
Uniform (Blazer, Lab coat, T-Shirt Shirt +Pant +Tie, ID Card) (Optional, One time during admission)	Rs. 3,500
Books, Notebooks, Records, Course Material, Lab Manuals	Rs 6 000

PART III Account – D (Refundable)

(Optional, per annum)

Caution Deposit	Rs. 5,000
(Refundable, One time during admission)	

6.5.7 How often is the fee revised?

The fee revision is fixed by the Government of Tamil Nadu, no way the college is decide to fix the fees.

6.5.8 What is the quantum of resources mobilized through donations? (other than block grants)

Not Applicable

6.5.9 Narrate the efforts taken by the college for resource mobilization by various means.

It is already said that the finance committee will decide the financial budget for the year, if the resource is not adequate, the management and loan from bank will make arrangement for the resources.

6.6 Best Practices

6.6.1. Describe best practices in Governance and Leadership adopted by the college in terms of institutional vision and leadership / organizational arrangements / strategies development / deployment human resource management / financial management and resource mobilization

A focussed institutional vision and dynamic leadership is ensured through a management team which is wholeheartedly dedicated to furthering technical education by dint of their 50 years of experience in successfully governing a technical education institution (Thiagarajar Polytechnic College, Salem).

The **organisational arrangements** include a Principal and Heads of Departments (HODs) who unequivocally share the management's vision and assiduously implement the educational policies that have become institutionalised over the last decade or so. The salient feature of this arrangement is 'decentralisation', whereby the HODs are empowered to administer their departments with operational flexibility while ensuring the implementation of broad institutional goals and policies. For key areas like student admission, human resources (staff recruitment and training), student placement training and placement, academic-autonomy initiatives, etc special appointments like Dean (Admissions), HR Manager, Corporate Relationship and Placement Manager, Controller of Examinations, etc are made.

Strategies development: For routine functioning of the college, any strategies that are required are developed by the Principal, often in consultation with the Secretary of the college or in association with the HODs through formal meetings, and for key strategies like those on research, foreign collaborations, etc, one or more of the members of the management are also involved in the meetings concerned.

Deployment of human resources and management: An HR Manager with a team of HR executives ensures effective deployment of faculty and staff required for the various categories of human resources in the college in consultation with the HODs. This is a unique feature of the organisational arrangements in the college.

Financial management and resource mobilisation: A separate Accounts Section in the Principal's Office, headed by a Finance Manager and an accounts team maintain and manage all of the financial resources of the college. The funds are maintained under appropriate heads for hassle-free transactions. The main source of finance mobilisation is through the fees collected from the regular students admitted into the full-time programmes of the college. Other minor sources include funds and grants secured by faculty from governmental funding agencies for research-and-development projects, staff development, conferences, travel, etc. They also include funds generated by faculty through industrial testing, consultancy and training, continuing education, etc.

Criterion VII: Innovative Practices

7.1 Internal Quality Assurance System

7.1.1. Has the institution adopted any mechanism/ process for internal quality checks?

For Every semester internal audit is carried out by the Trained team of Internal Quality Auditors. Check list will be given. The internal auditors monitor whether all the activities are carried out as per ISO and NBA requirements.

7.1.2. How does the institution ensure the quality of its academic programmes?

Academic Schedule is given at the beginning of every semester to cover syllabus and conduct weekly Tests and Model Exam as per guidelines. Continuous assessment is done and retest will be conducted if need arises.

Students are motivated to participate in Extra-curricular / Co-curricular activities like seminar, workshop etc. Intensive coaching is given.

Students Progress in Internal test Marks and Attendance is sent to parents regularly. Value Added courses, Guest Lectures, Seminars, Symposiums, Workshops are arranged.

HODs/Principal will check the documents periodically.

7.1.3. How does the institution ensure the quality of its administration?

Various committees are planned. Board of Studies will decide syllabus and curriculum based on Industry needs. Department has been decentralized. HODs can decide about machines to be purchased for the department including laboratories

7.1.4. What are the innovative courses introduced during the last five years? How do you promote innovation in curriculum?

University Syllabus is followed. Apart from the syllabus, value added courses are offered for the students in different functional areas. Corporate Executives are invited to deliver guest lectures. Technical skill development courses and Contemporary courses are offered by Continuing Education Centres.

Our faculty members are members in the board of studies. During board of studies meeting they give their suggestions inorder to promote innovation in curriculum.

Pedagogy includes Team teaching, Case Method,Role Play, Power point presentation, Information Communication Technology (ICT), Video lectures, EDUSAT (IIT-Mumbai, NPTEL) etc.

7.1.5. Describe the strategies evolved in promoting innovations in teaching, learning and evaluation?

Every faculty identifies few topics in their subjects which are beyond the syllabus. Student centric learning initiatives.

Innovation in Teaching (Team Teaching), learning, valuation is followed.

Continuous Assessment is done and Application Oriented questions are asked in the examination(both internal and external).

Revaluation of answer scripts and supplementary examination is available for the benefit of students.

Collaboration with Industry, Research Institutions, Foreign Universities etc to bring in diverse innovative ideas.

- 7.1.6. Elucidate some of the innovations in research and extension? What initiatives have been taken by the institution to give a significant thrust to research and development in the programmes?
 - 33 Research Centres are available which were inaugurated by Dr. A.P.J. Abdul Kalam, Former President of India on 12 August 2009.
 - 1. Centre for Micro Machining / Centre for Nano Materials(CMM/CNM)
 - 2. Centre of Excellence in Robotics and Nonlinear Dynamics
 - 3. Sona CAD/CAM Centre
 - 4. SONA SPEED (Sona Special Power Electronics and Electric Drives)
 - Sona Electric Power Engineering Research and Testing centre (SonaPERT)
 - 6. SONA SIPRO Signal and Image Processing Research Office
 - 7. SONA PCT Printed Circuit Board Design, Fabrication and Training centre
 - 8. CVES Centre for VLSI and Embedded SoC
 - 9. SONA NET Sona Network Computing Research Centre
 - 10. SONA MINE Centre for Data Mining & Database System Design

- 11. SONA WEB Centre for Web Services and Development
- 12. SONA FOSS Centre for Research and Development of Free Open Source Software
- 13. SONA Bean Java Consultancy and Development Centre
- 14. SONAVERSITY Research and Development center for Multimedia Educational Resources
- 15. Sona School of Multimedia Technology
- 16. SONA ERD Centre for study of Earthquake Resistant Design
- 17. SONA CCT Centre for Study on Concrete Technology
- 18. SONA Reach Centre for Research in Textiles / Garments and Extension Activities
- 19. Centre for Business Transformation
- 20. Centre for Research and Publication in Business Management
- 21. DATA SECURITY Centre for Data Security using Steg Bio Metric Systems
- 22. SONA FLAIR Sona Foreign Language Instruction And Research
 Centre
- 23. SONASTARCH Sona Science Centre for Testing and Applied Research
- 24. RAINFALL & SONA RADIO WAVE PROPAGATION, Centre for study on Rainfall and Radio Wave Propagation (CRRP)
- 25. Centre for Photonics and Nano-Technology (PAN)
- 26. SONATRAIN Centre for Training & Development
- 27. Sona Continuing Education Centre
- 28. Centre for Social Responsibility Initiatives
- 29. Centre Infosys Campus Connect Programme
- 30. Sona Journal Publication Centre

Authorized Training Centre

- 31. CISCO Local Networking Academy
- 32. IBM Centre of Excellence and Sun Academic Initiative Programme
- 33. Linux Training Center and Oracle Training Centre

7.1.7. What innovative strategies have been adopted in governance?

HODs are given academic freedom to run the departments with respect to Admission of students, recruitment of teaching and non-teaching staff members etc. Annual Meeting of faculty and staff is conducted by the top Management to ensure the student progress in academic and introducing new methods of teaching.

Governing council meets regularly. Intranet(Sona Times), exclusive HR Department and MIS Department are available. Periodic progress reports sent to parents. Faculty are given incentives for publishing journal articles, academic oriented foreign travel.

7.1.8. What mechanisms have been developed by the institution for quality assurance within the existing academic and administrative system?

ISO – Internal audit and external audit systems are followed for the past 9 years and NBA is followed for the past 6 years.

7.1.9. What are the functions carried out by the above mechanisms in the quality enhancement of the institution?

For enhancing the quality of the institutions

- Periodic monitoring is carried out and if any non-compliance found corrective action will be taken immediately
- **-**Counselling is given to the students regularly.
- Parents' meeting is conducted and their wards performance will be discussed during the meeting. With this continuous process, higher pass percentage is achieved.

7.1.10. What role is played by the students in assuring quality of education imparted by the institution?

Class Committee meeting is conducted twice in a semester and Students and faculty members participate in the meeting and discuss about the teaching learning process and the learning outcomes. Students' suggestions will be considered and corrective action will be taken.

7.1.11. What initiatives have been taken up by the institution to promote best practices in the institution? How does the institution ensure that the best practices have been internalized?

Staff training needs are identified and training programmes are conducted. Every year/semester Pedagogy programmes will be organized in order to provide training for the new faculty members. Staff members are motivated to attend training programmes and implement innovative teaching practices to enhance knowledge. Faculty members are attending seminars, workshops, conferences organized by leading institutes like NITTTR, NITs, IITs, IIMs etc. Students are encouraged to participate in competitions.

7.1.12. In which way has the institution added value to student's quality enhancement?

Modern teaching methods are introduced in teaching-learning process. Students are motivated to participate in state/region/national/international level Competitions. Also they are encouraged to write competitive exams. They are involved in professional activities. Placement training involves like Group Discussion, Aptitude test, mock interview. Corporate experts/Entrepreneurs are invited as judges to evaluate the student's performance in seminars, project work etc.

7.2 Inclusive Practices

7.2.1 What are the inclusive practices of the institution to impart holistic education?

Students make an active participation in the following activities - Extra/Co-curricular activities, Student Centric learning initiatives, Yoga, Meditation, Blood Donor Clubs, NSS, NCC, YRC, RRC, Sonaria Music Club, Drawing and Paining Club, Literary Club, Ripples Club.

7.2.2 What are the specific initiatives adopted to establish social justice among students, faculty and community?

Students are admitted under Sports Quota.

Women's development wing is created to create awareness in order to establish social justice among community.

Scholarship on various categories is announced for the benefits of the students. Ramp Wheel chair, exclusive toilets are available for differently abled persons.

7.2.3 How does the institution promote social responsibilities and citizenship roles among the students?

NSS, NCC, YRC, RRC, Blood donors club, Tremors club are created and students take an active participation in all these activities. Ethics subject is taught for B.E and MBA students.

7.2.4 What are the institutional efforts to bring in 'Community orientation' in its activities?

The objectives set by the institution with respect to community orientation are

- To offer short-term non-formal and vocational Programmes to impart specific skills to rural people in order to enhance their employability and quality of life.
- To organise various programmes to enhance the Ecological awareness among the public
- To support the economically backward class by providing Entrepreneurship development programmes.
- To provide Rehabilitation measures and support to differently abled persons
- To Develop Strategic Networking with Self Help Groups to improve their livelihood activities
- Sona Centre for Non-Formal and Vocational Education is providing training and continuous education to the needy.

The stakeholders of Sona's Social responsibility are rural community, Industry and service sectors, differently abled persons, self help groups, women, social welfare groups, R& D etc. Training programmes are offered in the areas of Engineering, Technology, Crafts and Fine Arts, Languages, Home Science, Agriculture, Entrepreneurship and Management. The strategic supports are provided for Corporate Social responsibilities, upgradation of Industrial training institutes and vocational stream programmes of rural school. Tailors and Masons have been trained.

7.2.5 Does the institution have any exclusive program under extra-mural/enrichment wing, to promote social responsibilities and citizenship roles?

Youth Red Cross

- Public awareness road rally, Bike rally for road safety and helmet awareness programme is conducted.
- Blood donation camps are organized.

National Service Scheme

Planting of Tree Saplings, Sanitation programme, AIDS Awareness Programme, Awareness on blood donation, Eye donation are being conducted. NCC camps are conducted periodically. Extramural studies are taken by the students from time to time.

7.2.6 Has the institution done a gender audit and/or any gender related sensitizing courses for the staff/students? Give details.

Women's development wing is formed. Talks on woman related issues are arranged to sensitize the women staff and students in the institution. TEDx function was conducted in the college.

7.2.7 What practices have been taken up by the institution to provide access to students from the following sections of the society:

- a) Socially-backward
- b) Economically-weaker and
- c) Differently-abled

Scholarships in different categories are provided to the students. Tuition fee waiver and Free accommodation is provided for differently abled students. Ramp, wheel chairs, Exclusive toilets are available for differently abled students.

7.2.8 What efforts have been made by the institution to recruit 1) Staff from the disadvantaged communities? Specify?

- a) teaching
- b) non-teaching

During recruitment of teaching and non-teaching staff special consideration is given for women, differently abled persons, socially backward and economically weaker persons.

7.2.9 What special efforts are made to achieve gender balance amongst students and staff?

The admission and selection process ensures that the gender balance is maintained among students. Special consideration is given for women in employment.

7.2.10 Has the institution done a gender audit and/or any gender-related sensitizing courses for the staff/ students? Give details.

Please also refer answer to 7.2.6

- Self Defence courses for women (40 days programme)
- Awareness programme on legal issues conducted for women employees.

7.2.11 What intervention strategies have been adopted by the institution to promote overall development of the students from rural/ tribal background?

Student can meet faculty advisors regularly for counseling. Faculty advisors also take special interest in overall development of these students. Personality Development programmes, special programmes conducted for rural/tribal students.

7.2.12 Does the institution have a mechanism to record the incremental academic growth of the students admitted from the disadvantaged sections?

Faculty advisors are monitoring the incremental academic growth of the students from time to time. Faculty advisors are contacting the parents in person or through phone and inform their progress.

7.3 Stakeholder relationship

7.3.1. How does the institution involve all its stakeholders in planning, implementing and evaluating the academic programmes?

Parents are invited to attend the Fresher's day function. Parents' meeting is organized regularly and whenever necessary student's performance is informed to their parents over phone and through letters. Student's feedback is taken for every semester in order to implement innovative teaching methods in the curriculum. During university examinations, University Representatives visit the institution to monitor and co-ordinate for the smooth conduct of examination. Academic members of the university and teachers are also involved.

7.3.2. How does the institution develop new programmes to create an overall climate conducive to learning?

New programmes are offered according to the needs and in collaboration with the industry experts.

7.3.3. What are the key factors that attract students and stakeholders resulting in stakeholder satisfaction?

Weekly Tests and model exams are conducted regularly. Weak students are identified and special coaching is provided. To score better marks in the examination students are motivated and awarded for achieving university ranks. An exclusive placement cell is set up which brings companies to the campus, provides Placement training and conducts recruitment in the campus and off-campus.

7.3.4. How does the institution elicit the cooperation from all stakeholders to ensure overall development of the students considering the curricular and co-curricular activities, research, community orientation the personal/spiritual development of the students?

Faculty and students are encouraged to take up research work. Yoga programme is conducted for all employees and students. Leading personalities talk on various subjects to shape the personality of the students and other stakeholders. NSS, NCC, YRC, RRC is functioning for the welfare of the student and the community.

7.3.5. How do you anticipate public concerns in your institutions with current and future programme offerings and operations?

Public, parents, faculty and staff, students, recruiters are informed about the performance of current programmes, future programmes in college day / fresher day / teachers day function.

7.3.6. How does the institution promote social responsibilities and citizenship roles among the students? Does it have any exclusive program for the same?

NSS, NCC, YRC, Blood Donors Club, Women's Club, RRC is available to promote leadership qualities an to serve the society.

7.3.7. What are the institutional efforts to bring in community-orientation in its activities?

NSS, YRC, Blood Donors club serve the community from time to time. NSS, NCC camps are conducted periodically. YRC rally was organized.

7.3.8. How does your institution actively support and strengthen the neighborhood communities? How do you identify community needs and determine areas of emphasis for organizational involvement and support?

The college has identified the needs of communities and required training is provided. Eg. The women from villages have been trained in Tailoring and they got employment. Computer training / Mason Training given to the needy.

7.3.9. How do the faculty and students contribute in these activities?

Faculty and students are regularly visiting old age homes, involved in Tree plantation work and Blood donation, special NSS camps conducted in villages, Traffic control, cleaning of temples were conducted.

7.3.10. Describe how your institution determines student satisfaction, relative to academic benchmarks? Do you update the approach in view of the current and future educational needs and challenges?

Students feedback (written) about faculty, teaching methods play an important role. Students express their views in the class committee meetings for improvement.

Students suggestion are considered. Suggestion boxes are available in the college and hostel premises.

7.3.11. How do you build relationships

- to attract and retain students Students are encouraged to participate in seminars, writing articles and special incentives is paid by the management for the winners. Arrangements are made to Interact with Industry experts.
- to enhance student's performance Regular interaction with Faculty,
 Faculty Advisor and attending seminars.
- to meet their expectations of learning Students feedback is considered.

7.3.12. What is your complaint management process? How do you ensure that these complaints are resolved promptly and effectively? How are complaints aggregated and analyzed for use in the improvement of the organization, and for better stakeholder-relationship and satisfaction?

Suggestion boxes are available in many places in the college / Hostel campus. All suggestions, complaints are recorded and suitable action is taken by the Student Welfare Officer in consultation with the Principal and Concerned Heads of Departments.

7.3.13. How are the core values of NAAC reflected in the various functions of the institution?

Academic freedom is appreciated by faculty and students. They are encouraged to publish papers, file patents, to do research, to participate in

seminars/workshops. Faculty members attend training programmes regularly. Contributing to National Development through research, consultancy and training Contributing to Research Collaboration with Industries for research and project work for students, factory visits and Guest Lectures. Collaboration with Overseas Universities for research.

Inculcating value system Professional Ethics subject is taught to students Yoga, Meditation centre is functioning Promoting the use of technologies through various research centres. Quest for excellence – Suggestions of all the Stake-holders are considered to improve the quality.

C.Evaluative Report of the Department

Department of Mechanical Engineering

1. Faculty Profile, Adequacy & Competency of faculty

Faculty Details	Req uir ed	A 1/01	Professor	Assistant Professor		Lect urer	No. of Ph.D	Ph.D (Pursu ing)
Teaching Faculty Program me	30	33	06	05	05	17	04	15

• Faculty strength is adequate as the teacher: student ratio is 1:14

In Mechanical Engineering department we are having five Doctorates and almost all the faculty members are having Master degree and 50% of staffs are doing Research in various fields like Thermal, Robotics, Manufacturing, CAD, CAM, Engineering Design, I.E, I.C engines, etc., and they have rich experience in technical teaching and industrial exposure.

2. Student Profile according to programmes of study, gender, region etc.,

U.G.	Ger	nder	Region			
B.E – MECH	Male	Female	Tamil Nadu	Other State	Foreign	Total
I Year	143	1	128	01	14	143
II Year	152	01	152	-	01	153
III Year	144	01	143	01	01	145
IV Year	143	-	133	05	05	143

P.G.	Gei	nder	Region			
M.E – ED	Male	Female	Tamil Nadu	Other State	Foreign	Total
I Year	15	-	15	-	-	15
II Year	16	2	18	-	-	18

P.G.	Ger	nder	Region			
M.E – PDD	Male	Female	Tamil Nadu	Other State	Foreign	Total
I Year	16	-	16	-	-	16
II Year	17	-	17	-	-	17

3. Changes made in the courses or Programmes during the past five years and the contribution of the faculty to those changes

Year	Regulation	Remarks		
2005-2006	2004 of AU- Chennai	No changes made		
2006-2007	2004 of AU- Chennai	No changes made		
2007-2008	2007 Regulations of AUT-CBE	List of new courses introduced in the 2007 Regulations of AUT-CBE and the corresponding courses of the R2004 AU-Chennai that were removed		
University zone is changed and our college comes under Anna University Chennai con academic year 2007-2008				
2008-2009	2008 Regulations of AUT-CBE	List of new courses that were introduced and the corresponding courses that were removed		
Year	Regulation	Remarks		
2009-2010	2008 Regulations of AUT-CBE	No changes made		
2010-2011	Autonomous Curriculum	According to the latest trends and requirements of the industries new courses that were introduced and the corresponding courses that were removed		

a. Dr.P.Govindarajan. Ph.D is a member for Board of studies in Mechanical Engineering, Anna University, Chennai.

b. Dr.P.Govindarajan. Ph.D is a Convener for Board of studies in Mechanical Engineering, Anna University, Coimbatore.

4. Trend in the success rate and dropout rate of students during the last five years

Batch	No of Students	% Results	No of students dropped out
2002 – 2006	67	76%	-
2003 – 2007	73	83%	-
2004 - 2008	71	92%	-
2005 – 2009	132	92%	1
2006 – 2010	127	94%	8(Rejoining)
			1(dropped)

5.Learning resources of the department like library, computers, laboratories and other such resources

		Item	Quantity
	Total no o	f Books	545
Library	Journals	National	17
	Journals	International	12
	Video Lec	tures	12
	Tutorial C	Ds	92
		Item	Quantity
	With Inter	Net	132
	With Intra	net	43
Computers	Special purpose (i.e., Integrated with Machine)		04
	Laptop	03	
	Computers for Class work purpose (for Presentation)		03
	Dot Matrix		03
Printer /	Laser (B/	03	
Plotter	Ink Jet	01	
	Plotter Co	01	
	CAD/CAN	M lab	01
Laboratories	IC Engine	lab	01
	Heat and M	Mass transfer lab	01
	Fluid mec	hanics lab	01
	Metrology lab		01

Laboratories	Basic Workshop I	01
	Workshop- II	01
	Workshop- III	01
	Dynamics lab	01
	Mechatronics lab	01
	Simulation lab	01
Miscellaneous	Television	01

6. Enhancement of the learning resources during the past five years

- a. EDUSAT programs from Anna University Chennai for the problematic subjects like Finite Element Analysis, Design of transmission systems, kinematics of machines, Dynamics of machines etc., were arranged for the benefit of the students
- b. Purchased Course materials (Both Video and Web) from National Programme on Technology Enhanced Learning (NPTEL)"A Joint Venture by Indian Institutes of Technology And Indian Institute of Science, Bangalore" were purchased for the Latest, Research oriented and Result oriented subjects like thermodynamics, Fluid Mechanics, Robotics, Heat and Mass transfer, Machine Design, Manufacturing Process I and II, Mechanical Vibrations, Robotics, Advanced Strength of Materials etc.,
- c. Purchased Software like Solid works, Pro/E, ANSYS, LAB View, FluidSim software for laboratory.
- d. Addition of special equipment like Metallurgical Microscope with Image acquisition system, Pulse rectifier, Electroplating Setup, High energy Ball Mill, Micro Electro Chemical machining (μ ECM) Setup, Sample Preparation Facilities.
- e. Addition of different titles in the referred international Journals like Science Direct, Elsevier etc., in the Digital Library.

- f. Addition of more volumes, text books, reference books, CDs, Journals and magazines in both college and department Library.
- g. Addition of more computers with internet facilities.

S.No	Item	2006-07	2007-08	2008-09	2009-10	2010-11
1	Total no of books	200	107	120	125	416
2	No of Journal	12	7	7	5	5
3	Total no of back volumes	45	37	40	15	4
4	CD's	20	22	18	32	-
5	Videos	3	2	3	2	2

7. Modern Teaching methods in practice other than the lecture method

- a. Arranged EDUSAT programs and video conference in co-ordination with Anna University Chennai.
- b. Arranged Video based guest lecture (From NPTEL IIT)
- c. Arranged mock interviews for the final year students and it is conducted by industrial personals
- d. Used Power point shows and Animations (CBT Computer based Teaching) for the class works
 - e. British English Council exams.
- f. Industrial Visit along with SAE professional Body to the leading industries and enhance the students skill by practically by providing the In-plant training for not less than 2 weeks.
- g. Attending Technical Fair (Technical Exhibition Conducted by Industries) to get more knowledge about the recent trends in the manufacturing sector.
- h. Organizing, Presenting and Participating International Conferences,
 Seminars and Technical events.

8. Participation of teachers in academic and personal counseling of students

- a. Periodical academic and non academic counseling for the entire department Students by Faculty advisors (1:15) and class Counselors.
- b. Arranging Parent Meeting for the entire department Students.
- c. Arranging Placement Oriented Programme for all the department Students.
- d. Arranging guest lecture and technical seminars for all department students to have more exposure and latest technological developments.

9. Details of faculty development programmes and teachers who benefited during the past five years

Participation

Year	2005 – 06	2006 - 07	2007- 08	2008 - 09	2009 - 10
No. of National conference attended	4	4	4	14	17
No. of International conference attended	3	5	1	8	20
No. of Workshops/ Seminar Attended	10	13	9	3	11
Invited Lectures	4	4	6	4	6
Training programme Attended	1	2	3	1	-
Pedagogy training attended	5	6	5	4	3
Faculty Develop programme	5	3	4	7	-
Staff Development Programme	1	2	3	1	-

Publication

Year	2005 – 06	2006 – 07	2007-08	2008 -09	2009 -10		
Journals							
International	International 1 6 6 6 17						
National	2	1	1	2	1		

Conference						
International	International 7 8 2 8 20					
National	13	11	5	14	17	

10.Participation of teachers in academic activities other than teaching and research

CAD/CAM	2005-06	2006-07	2007-08	2008-09
Course & Duration	No. of	No. of	No. of	No. of
	students	students	students	students
Solid Works & 3 Months	40	48	80	51
Auto CAD &2 Months	9	9	56	6
CNC Lathe				
(Programming) & 2	-	4	14	3
Months				

- Coordinating Professional bodies such as SAE Collegiate club, ISTE Student chapter.
- Participating Pedagogical Training, Faculty training, attending seminar, workshop and technical events.
- Delivering guest lecturers for other Technical Institutions.
- Giving Consultancy service to the industries like Vee Technology, JSW steel ltd, SAIL, etc,.
- Arranging in-plant training in industrial and industrial visit for the benefit of the students.
- Staff members are representing national and International conference and symposium and acting as Juries / Judges and also various technical events.

11. Collaborations with other departments and institutions at the national and International level and their outcome during the past five years

Details	Collaborative projects
CMNT	03
CAD/CAM Laboratory	04
MODROBs	01

Year	Consultancy given by	Job Details	Company
		Fabrication of Spherical Pin, Spherical Pin	Jasan industries, Salem.
2005-	CAD/CAM	Spherical Pin, Temperature stub, Adapter Pin, Temperature stub	Surenderan Engg. Works, Salem.
2006		Die and Punch	Charam Tech Private Ltd, Salem
		Spindle Pin	Jasan industries, Salem. Salem
2006		Die and Punch	Salem Steel Plant, Salem
2006- 2007 CAD/CAN		Adapter Pin	Surenderan Engineering works, Salem
		Spindle Pin	Jasan Industries, salem
2007		Spindle Pin	Jasan Industries, Salem
2007-2008	CAD/CAM	Adapter Pin	Surenderan ngineering Works, Salem.
		Slicing (Wirecut EDM)	Salem Steel Plant
2008- 2009	CAD/CAM	Heat transfer analysis of cylinder (Model 1&2) -Failure analysis of Cylinder (Model 2) -Buckling Analysis of Radial Flange -Buckling Analysis of Radial Flange (Case-II) -Heat Transfer analysis of Finned Model Analysis of Redesign Model -RPC Project	Vee Technologies Pvt. Ltd, Salem.302

12.If research is a significant activity, what are the thrust areas of the department

Heat Transfer & I.C. Engines

Nano Technology & MEMS

Robotics

Metal Forming

13.Details of the ongoing projects and projects completed during the last five years

	Ongoing Projects	Project Completed
CMNT	03	03
Robotics	05	-
IC Engine (MODROB)	-	01
CAD/CAM	02	15

S.No	Principal Investigator	Title of the Project	Agencies/ Autonomous bodies	Amount received (Lakhs)	Status
1.	Dr. P. Govindarajan	Computerized Variable Speed Diesel Engine Test rig under MODROB Scheme	AICTE	7	Completed
2.		Studies on the Pulse Plating of Silver for the Jewelry Industry	AICTE	7.5	Completed
3.		Low cost Technique for Synthesis of Nano Structured Materials	DST	10.62	Completed
4.		Development and Performance Analysis of a Combined Micro EDM and Micro ECM setup	AICTE	10.5	Completed
5	Dr. R.M. Arunachalam	Design and Development of 3 axis Multipurpose Machining setup	AICTE - RPS Scheme	17	
6		Development of stir casting facility for synthesis of Nano particle reinforcement metal matrix composite	AICTE - RPS Scheme	5.76	Submitted and results awaited
7		Design and Development of a Bottom Tapping Stir casting facility for Production of Nano Metal Matrix composite	DRDO	15.29	

S.No	Principal Investigator	Title of the Project	Agencies/ Autonomous bodies	Amount received (Lakhs)	Status
8		Mechanical design of Wheel Leg robot for space application		13.25	
9	Dr.M.Thangavel	Nonlinear dynamics of spacecraft during its journey through the atmosphere	Vikram sarabhai space centre (VSSC), Tiruyanan	22.17	
10		Bipedal Robot based experiment platform to study human walking inside space craft	thapuram	29.88	
11		Design and Analysis of light weight 5-axis Robotic manipulator with indexing type Endeffector		17.15	
12		· ·	Research Organization (ISRO),	395	

14. Publications of the faculty, for the past five years. Details regarding citation index and impact factor.

S. No	Name		International Conference	Journals (National & International	Citation	Impact Factor
		2005-10	2005-10	2005-10	C	Impa
1.	Dr.R.Venkatesan	3	3	4		
2.	Dr.M.Thangavel	2	8	-		
3.	Dr. RM. Arunachalam	1	11	16		
4.	Prof. P. Suresh	2	-	-		
5.	Prof. A.Selvaraj	1	1	2		
6.	Dr.N.Elango	3	3	7		
7.	Dr.D.Senthil Kumar	3	3	4		
8.	Prof.R.Sasikumar	2	2	2		
9.	Prof.K.Rajkumar	3	3	-		
10.	Mr.A.Srinivasan	4	-	-		

S. No	Name		International Conference	Journals (National & International	Citation	Impact Factor
		2005-10	2005-10	2005-10	\circ	I
11.	Mr.A.Jegan	1	1	1		
12.	Mr.V. M.Madhavan	1	-	-		
13.	Mr.K.Muralidharan	1	-	-		
14.	Mr.R.Mohan	6	2	-		
15.	Mr.A.Sivaprakasam	1	-	-		
16.	Mr.D. Suresh Babu	1	-	1		
17.	Mr.S.Lakshmanakumar	2	-	-		
18.	Mr.V.Kaviarasan	2	-	-		
19.	Mr.K.Shanmugavel	1	-	-		
20.	Mr.R.Ravikumar	2	-	1		
21.	Mr. M.Senthil Kumar	1	-	-		
22.	Mr.M.Pradeepkumar	1	-	-		
23.	Mr.A.R.Venkataramanan	1		-		
24.	Mr.M.Venkatesan	1	-	-		
25.	Mrs. Shanthi	2	-	-		

15. Participation of the department in the extension activities of the college.

- Member in BOS in Anna university Chennai and Convener in BOS in Anna university Coimbatore
- Acting as a chief superintendent for conducting Anna University,
 Coimbatore examinations.
- SAE Collegiate club coordinator, ISTE student chapter coordinator
- Placement coordinator
- Anna university Coimbatore Lead Auditors
- ISO internal auditor.

16. Method of continuous student assessment

a. Conducting regular weekly test on Monday and Wednesday for all subjects (3 cycle of test)

- b. Conducting model exam at end of the semester
- c. Regular contact with parents
- d. Periodical academic counseling of students by faculty advisors and class counselors.
- e. Guiding Student Projects and Mini Projects

17. Placement record of the past students and the contribution of the department to the student placements

Batch	No of Students	No of Students Placed (ON, OFF Campus and after leaving Campus)	Higher Studies & Entrepreneurship
2002 –06	67	58	04
2003 –07	73	61	05
2004 –08	71	64	04
2005 –09	132	46	08

18. Significant achievements of the department or faculty or students during the past five years

Dr.RM.Arunachalam

- Awarded DST SERC FAST TRACK PROPOSAL FOR YOUNG SCIENTISTS for Rs.10.62 lakhs
- Awarded All India Council for Technical Education (AICTE) Career
 Award for Young Teachers (CAYT) for 10.50 lakhs

Name of the Student	Name of the Publication	Name of the Magazine & Editor	Name of the Publisher	Grants received from outside concerns
S.Nirmalesh kumar	Design of an IC Engine with 12 Stroke Operation	Sonalisa. Dr.M.Renuga, Sona college of Technology	Sonaversity, Sona College of Technology	Rs.60,000/- From Tamil Nadu State Council and science Technology and TATA Funds

	Internal Combustion Engine	International Mechanical Engineering Congress And Exposition	ASME, Florida, USA		
	Internal Combustion Engine	International Conference On IC Engine	ASME, Switzerland		
S.Nirmalesh kumar	Greener Approach To Energy Production Through Photovoltaic	Short Term Project	University of New South Wales, Sydney, Australia	Rs.5,00,000/- From University of South Wales	
	Photovoltaic optic fibre	(selected at NASA)			
S.Jeevamanic kam	Synthesis And Characterisation Of Nano structured Stainless Steel 316l Through Machining	International Conference On Synthesis, Characterisation Consolidation And Modeling Of Nanomaterials	PSG College of Tech., Coimbatore		
P.R.Balaji	Carbon Fibre Reinforced Plastics	Souvenir	SNS College of Technology		
K.A.Deepak & N.Dhilip Kumar	Drowsy Driver Detection system	Szerszamune 08	Valliammai Engineering College, Chennai		

Rank Holders

Year	B.E / M.E	Name	University	Rank Obtained
2007	M.E. (PDD)	Mr.B.M.Sankaranarayanan	Anna University	I
2005	M.E (Thermal)	Ms.J.Parveenbanu	Anna University	I
2005	M.E (Thermal)	Mr.C.T.Muthaiah	Anna University	III
2006	M.E (Thermal)	Mr.J.Chandran	Anna University	I
2007	M.E (CIM)	Mr.I.Balasubramanian	Anna University	I
2007	B.E(Mechanical)	Kamalraj	Anna University	XIV

2008	M.E (Thermal)	Mr.S. Rajesh Kana	Anna University	I
2008	M.E. (ED)	Mr.R.Bharathidhasan	Anna University	III
2009	B.E(Mechanical)	Mr. S. Nandha Kumar	Anna University	XXV
2010	B.E(Mechanical)	Mr.Jeevemanickam	Anna University	XXXII

$19. Involvement\ of\ students\ in\ academic/co-curricular\ and\ other\ activities\ of\ the\ department.$

S.No	Year	Number of students participated in workshop/symposium		Number of students Published paper in Journal/Conference	
		UG	PG	UG	PG
1.	2005 - 06	4	2	ı	35
2.	2006 - 07	7	2	ı	45
3.	2007 - 08	5	16	-	25
4.	2008 - 09	1	17	1	3
5.	2009 - 10	75	22	1	22

Awards/Prizes received by students in academic work & activities (eg: First rank in University; National or State	1.B.Gowthaman & R.Praveen Prasath got the I prize in kongu Engg. College for paper presentation	
Award in specific academic activities)	A.Sathish & V.Sabesan got III prize in MANIT-Bhopal,GCT-Coimbatore	
Achievements in sports & games by	1.A.Saravankumar selected as a football university team representative	
Students	2. C.Vasantharaja got III prize in Zonal level Ball Badminton	
Achievements in other extra-curricular activities by students	1.BAJA 2010, SUPRA 2010, Patent applied for 12 stroke engine	
Awards/Honours/Patents/copyrights/Fell	BAJA 2010,SUPRA 2010	
owships received by Faculty	1.Patent filed for the invention entitled "Plate Cam cutting	

20. Innovations and best practices initiated/adopted by the departments during the last five years.

Name of the Student	Name of the Publication	Name of the Magazine & Editor	Name of the Publisher	
	Design of an IC Engine with 12 Stroke Operation	Sonalisa. Dr.M.Renuga, Sona college of Technology	Sonaversity, Sona College of Technology	
S.Nirmalesh kumar	Internal Combustion Engine	International Mechanical Engineering Congress And Exposition	ASME, Florida, USA	
	Internal Combustion Engine	International Conference On IC Engine	ASME, Switzerland	
S.Nirmalesh kumar	Greener Approach To Energy Production Through Photovoltaic	Short Term Project	University of New South Wales, Sydney, Australia	
	Patent applied for 12 stroke engine	Applied for Patent		
	Photovoltaic optic fibre	selected at NASA		
S.Naresh and team	S.Naresh and team SAE Baja 2011		ign Contest in IIT Delhi	
B.Logeshwaran and team	Supra SAE India 2011	In Process		

21. Development and expansion plans of the department for the next 5 years

Addition of New equipments such as Scanning electron microscope (SCM), tribological equipments, Transition Electron microscope (TEM) in the CMT Laboratory

Addition of recent for CMT Laboratory

Addition of New Robots such as 6 axis KUKA Robot in the Simulation laboratory

Addition of 500 tonne Press in the Special Machine Lab.

22. Any other highlights

• Department is accredited by NBA for UG Mechanical and PG PDD.

- Department is a recognized research center of Anna University, Chennai and Anna University, Coimbatore.
- Department has got research funds for 3 projects from autonomous bodies like from AICTE -2 & DST-1
- Department has got MoU with JSW Steel Limited, Pottaneri, Salem and Jasan Industries, Salem
- Department staff has got young scientist award for the year 2008 from AICTE CAYT
- 31 students were placed in On Campus and 16 students were placed in Off campus and 11 students went for higher studies in 2003-2007,54 students were placed in On Campus and 1 students were placed in Off campus and 4 students went for higher studies 2004-2008 and 45 students were placed in On Campus and 35 students were placed in Off campus and 8 students went for higher studies in 2005-2009
- A student of current final year visited university of new south Wales,
 Sydney for short term project on "Greener Approach to Energy production through photovoltaic".
- A student of current final year visited Switzerland for participating in International conference on IC Engines.
- A student of current final year visited Florida for participating in International Mechanical Engineering congress and Exposition.

C.Evaluative Report of the Department

Department of Electrical & Electronics Engineering

The self-evaluation of every department/subunit may be provided in about **three pages**, avoiding the repetition of data already given in the profile, to the extent possible. While the profile may provide quantitative data, this part of the report may be made more evaluative, using the quantitative data only to substantiate the claims, wherever necessary.

1. Faculty profile, adequacy and competency of faculty

- 33 EEE Faculties: Professors 05; Assistant Professors 05;
 Senior Lecturers 08; Lecturers 15
- Faculty qualifications: PhD 04; PhD (Pursuing)-16; Masters Degree–13.
- Faculty strength is adequate as the teacher: student ratio is 1:13
- The faculties are competent teachers, trained formally in pedagogy, and consistently produce 100% or nearly 100% results in the courses they teach.

2. Student profile according to programmes of study, gender, region etc

U.G	Ger	nder		Region			
B.E - EEE	Boys	Girls	Tamil Nadu	Other State	Foreign	Total	
I Year	77	60	124	01	12	137	
II Year	77	70	141	02	04	147	
III Year	67	81	142	01	05	148	
IV Year	63	72	129	02	04	135	

P.G	Gender					
M.E - PSE	Boys	Girls	Tamil Nadu	Other State	Foreign	Total
I Year	11	07	15	03		18
II Year	09	09	18			18

P.G	Ger	nder	Region			
M.E - PED	Boys	Girls	Tamil Nadu	Other State	Foreign	Total
I Year	08	10	18			18
II Year	09	09	18			18

3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes

2005 - 2006 : Regulations 2004 of AU-Chennai – No changes made

2006 - 2007 : Regulations 2004 of AU-Chennai – No changes made

2007 - 2008: List of new courses introduced in the 2007 Regulations of

AUT- CBE and the corresponding courses of the R2004

AU - Chennai that were removed

2008 - 2009: List of new courses that were introduced and the

corresponding courses that were removed

2010 (Autonomous Curriculum): Will be given by Dr. Karunakaran in the First year evaluation report.

4. Trend in the success rate and drop out rate of students during the last five years

Batch	No of Students	Success Rate	Drop out Rate
2002 – 2006	64	82.81 %	17.19 %
2003 – 2007	67	80.30 %	19.70 %
2004 - 2008	67	89.55 %	10.45 %
2005 - 2009	132	97.70 %	02.30 %
2006 – 2010	132	92.42 %	07.58 %

5. Learning resources of the department like library, computers, laboratories and other such resources

Department Library	Quantity
Total No of Books	1191
No of Titles	422
Journals	25
Tutorial CDs	27
Total No. of Computer's in EEE Dept.	132
Internet Connection	52
Printer Dot Matrix	08
Printer Laser (B/w)	03
Printer Laser Colour	02
VHP	02
OHP	03

S.No	Department Lab	Area
1	AC Machines Lab	366.96 Sq.m
2	Electrical Drives Lab	
3	DC Machines Lab	246.53 Sq.m
4	Simulation Lab - UG	141.75 Sq.m

S.No	Department Lab	Area
5	Simulation Lab - PG	
6	Power Electronics Lab - UG	186.825 Sq.m.
7	Power Electronics Lab - PG	
8	Digital IC Lab	133.88 Sq.m.
9	Microprocessor and Microcontroller Lab	
10	Measurements and Instrumentation Lab	119.04 Sq.m.
11	SONASPEED R&D Lab and Project Lab (UG and PG)	204.3 Sq.m.
12	SONAPERT R&D Lab and Project Lab (UG and PG)	130 Sq.m.

6. Enhancement of the learning resources during the past five years

S.	Item	2006-	2007-	2008-	2009-	2010 -
No		2007	2008	2009	2010	2011
1	Total no of Books	150	720	815	958	1191
2	No of Journals	I	I	10	15	25
3	Total No of Computers	48	68	85	112	132
4	No of Internet Connections	08	22	32	40	48
5	Purchase of Additional	1.84	10.35	28.94	4.98	7.38
	Laboratory Equipment					
	(In Lakhs)					

7. Modern Teaching methods in practice other than the lecture method

- Organizing Technical Lectures from Resource Persons (from ISRO, IISc, VSSC) to enhance the Technical skills of the EEE Students under [INAE- DVP] – Distinguished Visiting Professor Scheme.
- Professional and Technical Associations [EDISON, IEEE, ISTE].
- EDUSAT, Computer Based Teaching, Seminars, GDs, In plant Training, Industrial Visit, Projects etc.

8. Participation of teachers in academic and personal counseling of students

- Periodical academic and non academic counseling for all the department Students by Faculty advisors and class Counselors.
- Arranging Placement Oriented Programme for all the department Students
- Arranging guest lecture and technical seminars for all department students to have more exposure on latest technological developments.

Details of faculty development programmes and teachers who benefited during the past five years

Year	2005 -	2006 -	2007-	2008 -	2009 -
Programmes	06	07	08	09	10
No. of National conference	15	29	07	03	05
attended					
No. of International		03	02	02	09
conference attended					

Year	2005 -	2006 -	2007-	2008 -	2009 -
Programmes	06	07	08	09	10
No. of Workshops/ Seminar	0.6	0.2	0.2	1.5	02
Attended	06	03	03	15	02
No. of Papers published in		03	-	02	06
Journals					
Invited Lectures	04	04	06	04	06
Pedagogy Training Program	04	03	04	03	04

10. Participation of teachers in academic activities other than teaching

and research

- Involved as Class Counsellors (to regularly liaise with and keep day-to-day records of a designated class of students) and as Faculty Advisors (for counselling of an assigned group of students)
- Compiling / authoring course material for most of the theory courses assigned and developing lab manuals for the lab courses assigned
- Organising industrial visits for students and accompanying them during visits
- Organising conferences, seminars, guest lectures, student symposia, SDPs, student internships, etc
- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library)

- As resource persons for department's continuing education courses
- As Coordinators for placement training and organising on-site or off-site interviews for student placement
- Visiting industry periodically to enhance industry-academia interaction
- As guest lecturers/resource persons invited by other colleges
- As trainers for faculty or student development (department and college level)
- Staff members are representing national and International conference and symposium and acting as Juries / Judges in various technical events.

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

Sona SPEED R&D

S.No	Project Title	Budgeted Project Cost (Rupees in Lakhs)	Status (Completed/ In progress)
1	Development of Aerospace Demo	15	Completed
	Models		
2	Design and Development of BLDC	10	Completed
	Torque motor		
3	Design of Slotless BLDC motor	1.9	Completed
4	Development of Electronics of	1.06	Completed
	BLDC motor	1.96	

S.No	Project Title	Budgeted Project Cost (Rupees in Lakhs)	Status (Completed/ In progress)
5	Realisation of Flight Model of	6	Completed
	Slotless BLDC motor		
6	Development of BLDC lab motor	1	Completed
7	Design and Realisation of qualification models of Limited Angle Torque motor	17	Completed
8	Refurbishment of High KW BLDC motor	2.15	Completed
9	Realisation of Flight model of BLDC Torque motor	29	Ongoing
10	Development of 22.5 deg PM Stepper motor	16.5	Ongoing
11	Development of Control Moment Gyro	3	Ongoing
12	Development of Reaction wheel, Scan Mirror and super precision gyroscope Models	3.3	Ongoing

SonaPERT R & D

S. No	Project Title	Budgeted Project Cost (Rupees in Lakhs)	Status (Completed/ In progress)
1	Development of High Performance Condition Monitoring System for Power Transmission Line	8.23	Completed
2	Development of nano-composite materials for outdoor insulation applications	10.5	On-going
3	Solar Cell Battery System with Microcontroller Based Maximum Power Tracking For Domestic and Street Lighting In Rural Areas	0.01	Completed
4	Outdoor Polymeric Insulator Pollution Assessment Based on Partial Discharge Analysis	15 (PD Check Instrument)	Completed
5	Development of bio-degradable oil as alternate for petroleum based mineral oil for electrical applications.	0.50	On-going
6	Current Transformer Accuracy Testing System	2.25	Completed

S. No	Project Title	Budgeted Project Cost(Rupe es in Lakhs)	Status (Completed/ In progress)
7	Potential Transformer Accuracy Testing System	2.25	On-going
8	Development of Regulated DC Power Supply	11	On-going

12. If research is a significant activity, what are the thrust areas of the department

Special Electrical machines & Controls and High voltage.

13. Details of the ongoing projects and projects completed during the last five years

Details are given in Item no 11.

14. Publications of the faculty, for the past five years. Details regarding citation index and impact factor.

S.	Name of the Faculty	No of	Paper	citation index	Impact
No.		Publications	Published	citation muex	factor
1	Dr. S. Chandrasekar	45	IEEE/	Dr.S.Chandrasekar	1.2
2	Prof. C. Easwarlal	02	ISTE/		
3	Prof. M. Senthil	01			
	Kumar		International		
4	Ms. R. Arulmozhiyal	01	Conference		1.33
5	Prof. S. Padma	02	and Journals		
6	Prof. R. Shiva Kumar	02			

15. Participation of the department in the extension activities of the college.

For the New Buildings – Calculation of Electrical load and execution of electrical connections.

16. Method of continuous student assessment

- One-hour test per course on Mondays and Wednesdays; Papers evaluated by Friday; Retest for absentees and below–par students on Saturday afternoons; Weekly test in Maths courses – every Friday, one hour
- Three weekly tests per course per semester
- University pattern model examinations for all theory and lab courses
- Assignments and Motivated Study Projects, at least two per course per semester
- Internal marks: 50% marks; Anna University exams: 50% marks
- Under autonomous system (2010 onwards) internal: external marks
 25: 75

Periodical academic counseling of students by faculty advisors and class counselors.

17. Placement record of the past students and the contribution of the department to the student placements

- The Electrical and Electronics Engineering department organizes all of its placement activities independently of the college placement cell.
- A pre-scheduled placement training plan is implemented at the departmental level every year.
- The department invites industry experts and alumni to train students for placement.

Batch	No.Of Students	Placed Through On/Off Campus	Got Job After Leaving Campus	Higher Studies	Enterpre neurs
2008	67	33	20	07	07
2009	132	28	68	17	19
2010	132	55	42	10	08

18. Significant achievements of the department or faculty or students during the past five years

Dr.S.Chandraseker , Professor of Electrical and Electronics
 Engineering Department Receiving Young Scientist Award given
 by AICTE

- Dr.N.Kannan and Team Received appreciation letter based on the performance of the Proto model from Shri .Ramakrishnan, Director (Projects) on 7th February 2008 at VSSC Director's Conference Hall.
- Most of the faculty members Received award for 95% and above result produced in the university Examinations given by the Management.

University Ranks

S.No	Name	University	University
		Rank	
	2002 – 2005 Batch	1	
1	A. Sathya Priya	17	
2	R. Jothi Priya	45	
	2003 – 2007 Batch	1	
3	Ummidi Sai Pallavi	17	Anna University,
	2004 - 2008 Batch	1	Chennai
4	E. Krithiga	1 (GOLD)	_
5	S. Mowli	10	
	2005 – 2009 Batch	1	
6	M. Preethi	16	
7	P. A. Sharanya Rani	43	
	2006 - 2010 Batch	[
8	M. Kalpana	11	
9	H. Haseenabanu	49	
10	R. Saranya	50	

Sports

Batch	Student Name	Events	Achievements
2002 - 2006	V. Arjun Krishnan	Shuttle	State level Winner
2003 - 2007	Sahul Hameed	Cricket (Team Member)	State level Winner
2004 - 2008	Sethupathy	Basket Ball (Team Member)	State level Winner
	Senthil Kumar	Cricket (Team Member)	State level Winner
	A. S.Saravanan	Football (Team Member)	State level Winner
	R. Magesh	Hand Ball	Regional level
			Runner
2005 - 2009	S. Kalaiarasan	Cricket (Team Member)	Regional level
	Vinoth Kumar	Power Lifter	Runner
			State level Winner
	M. Tamil Selvam	Basket Ball & Hand ball	Regional level
		(Team Member)	Runner
2006 - 2010	Preethi	Power Lifting & Cricket	Regional level
		(Team Member)	Runner
	Ravivarman	Handball (Team Member)	Regional level
			Runner
	N. A. Dhivya	Ball Batmiton	Regional level
		(Team Member)	Runner

19. Involvement of students in academic/co-curricular and other activities of the department.

S.No	Student Name	Gate Score	Year
1	S. Navaneetha Krishnan	74	(GATE-2009)
2	V. Vasantha Kannan	96.56	(GATE-2009)
3	S. Kalai Selvan	72	(GATE-2009)
4	V. Vasantha Kannan	96.23	(GATE-2010)

Year	Paper	Projects	Multimedia
	Presentation		Presentation
2007 – 2008	103	12	11
2008 – 2009	92	15	12
2009 - 2010	106	23	19

20. Innovations and best practices initiated/adopted by the departments during the last five years.

- Strategic planning and implementation
- Credit Point System for student soft skills development
- Exclusive Book for Faculty Advisor Counseling Record
- Arrears Clearance Plans
- Institution and Practice of Quality Codes (each staff has a QC booklet)
- Periodic motivational handouts for staff and students
- Two-week and two-month student feedback on teaching-learning process
- Regular workshops for student soft-skills development
- Identification of student and faculty learning styles
- Self-evaluation of faculty using a special format
- Departmental motivational awards for commendable student academic performance and best outgoing students
- Environmental-friendly principles in practice in the department
 University specifies innovations as a part of exercise to students.
 Hence studies of new / additional topics are given as innovations.

21. Development and expansion plans of the department for the next 5

years

To procure working models / do to understand basic working principles.

To introduce emerging fields as a branch of study.

22. Any other highlights

- The department is recognised as a research centre for PhD by Anna
 University of Technology Coimbatore.
- In our department two R& D centres

1) Sona SPEED 2) SonaPERT

Sona SPEED

The research and development activities of **Sona SPEED**, Dept. of EEE during the year 2004-2010

Slotless BLDC Motor for Meghatropiques Space Mechanism: IISU (17.4 Lakhs)

- Feasibility study and design document
- Development of Engineering Model Motor-2Nos
- Development of Drive Electronics-1No
- Realization of Flight Model Motors- 3Nos

Status: Completed (2007-2009)

C25 Quadruplex BLDC torque motor for GSLV MK- III: VSSC (39 Lakhs)

- Feasibility and design document
- Completed (2007-2010)

- Development of proto model
- Development of qualification model- 2nos
- Realization of Flight Models- 10Nos (**Ongoing**)

Limited Angle Torque Motor for CMG: IISU (14 Lakhs)

- Feasibility study and design document
- Development of proto model and testing
- Development of qualification models, 2Nos

Status: Completed (2008-2009)

22.5 deg permanent magnet stepper motor: VSSC (16.5 Lakhs)

- Feasibility study and design document
- Development of two proto models
- Development of two qualification models
- Development of ten flight models

Status: Ongoing (2009-)

Development of BLDC motor Lab setup: SCT/EEE(1 Lakh)

Status: Completed (2008)

7.5 KW BLDC Motor refurbishment: NIOT (2.15 Lakhs)

- Refurbishment of BLDC armature stator and testing
- Refurbishment of BLDC motor with test setup

Status: Completed (2008-2009)

High Power BLDC motor for RLV-TD project :VSSC(53Lakhs)

- Design document
- Development of one Proto and Three Qualification model

Status: Ongoing (2010-2011)

Development of Aerospace demo models for space museums:

IISU(21.32Lakhs)

- MoU-1 with IISU(2004-2006) Completed
- MoU-2 with IISU(2006-2008)
- Purchase order from IISU(2010-2011) Ongoing

Purchase order from ISRO(SHAR)-(2010-2011)

1 KW BLDC generator: iiTsa (0.8Lakhs)

• Feasibility study, design and development, 2Nos

Status: Completed (2010)

SonaPERT

S.No	Research and Development activity
1	Development of High Performance Condition Monitoring System for Power Transmission Line
	– AICTE –RPS – 8.23 Lakhs
2	Development of Nano-Composite materials for Outdoor Insulation applications – AICTE – CAYT – 10.5 Lakhs
3	Outdoor Polymeric Insulator Pollution Assessment Based on Partial Discharge Analysis - University of Bologna, Italy
4	Development of Current Transformer Accuracy Testing System - Megawin Switchgear, Salem. – 2.34 Lakhs
5	Development of Potential Transformer Accuracy Testing System - Megawin Switchgear, Salem. – 2.34 Lakhs
6	Modernization of high Voltage Laboratory -AICTE MODROBS – 15 Lakhs
7	Development of Regulated DC Power Supply – National Institute of Ocean Technology – Chennai – 11.6 Lakhs
8	Solar Cell Battery System with Microcontroller Based
	Maximum Power Tracking For Domestic and Street Lighting
	In Rural Areas – L- RAMP – 0.1 Lakhs

S.No	Training
1	Advanced PC based testing of Power Equipments
2	Recent condition monitoring techniques of power apparatus & systems
3	A Software Course on LabVIEW Programming

S.No	Consultancy
1	Power frequency with stand test for power equipments
2	Temperature Rise test for Switchgear & Control gear panels, Circuit breakers,
	Distribution Transformers, etc
3	Comparative Tracking Index test for insulating materials
4	Calibration of Electromechanical and Numerical Relays
5	Transformer oil Breakdown voltage testing
6	Underground Cable Fault testing

C.Evaluative Report of the Department

Department of Electronics and Communication Engineering

1. Faculty profile, adequacy and competency of faculty

30 ECE faculty: Professors – 3(2+1); Assistant Professors – 5; Senior
 Lecturers – 4; Lecturers – 17

Faculty qualifications: PhD – 1; Masters Degree – 28; UG – 1

- Faculty strength is adequate as the teacher: student ratio is 1:15
- The faculty are competent teachers, trained formally in pedagogy, and consistently produce 100% or nearly 100% results in the courses they teach.

2. Student profile according to programmes of study, gender, region, etc

U.G	Ger	nder		Region		
B.E - EEE	Boys	Girls	Tamil	Other	Foreign	Total
			Nadu	State		
II Year	67	79	140	4	2	146
III Year	78	79	143	3	11	157
IV Year	94	47	130	1	10	141
Total	239	205	413	8	23	444

3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes

2005-2006: Regulations 2004 of AU-Chennai – No changes made

2006-2007: Regulations 2004 of AU-Chennai – No changes made

2007-2008: List of new courses introduced in the 2007 Regulations of AUT-CBE and the corresponding courses of the R2004 AU-Chennai that were removed

2008-2009: List of new courses that were introduced and the corresponding courses that were removed

2010 (Autonomous Curriculum): Will be given by Dr. Karunakaran in the First year evaluation report.]

4. Trend in the success rate and drop out rate of students during the last five years

Batch	No of Students	% Results	No of Students Placed (ON, OFF Campus and after leaving Campus)	Higher Studies & Entrepreneurs hip
2002 –06	100	88	61% (50/82)	10
2003 –07	98	92	74.4% (58/78)	10
2004 –08	98	92	91.6% (76/83)	5
2005 –09	144	91.67	50.65% (47/94)	25
2006 –10	142	97.22	65% (65/100)	10

• The drop out rate is negligible.

5. Learning resources of the department like library, computers, laboratories and other such resources

• Laboratories : Seven Labs

- a. Electronics Lab
- b. Microwave/Optical Lab
- c. VLSI lab
- d. DSP Lab
- e. LIC Lab
- f. Microprocessor Lab
- g. Communication Lab

Equipments:

Equipment	Quantity
Total No. of Computer's in ECE	158
Dept.	
Internet Connection	30
VHP	2
OHP	2
Printer Dot Matrix	6
Printer Laser (B/w)	1
Printer Laser Colour	0

• Department Library:

Item	Quantity
Total No of Books	2140
No of Titles	247
Journals	5
Tutorial CDs	-
Television with DVD Player	1

 One internet access point is available in the department for every two faculty members (six internet-enabled computers)

6. Enhancement of the learning resources during the past five years.

• There has been a four-fold increase in the number of learning resources in the past five years, from 448 books in 2006 to 2140 in 2010.

7. Modern teaching methods in practice other than the lecture method

Organizing Technical Lectures from Resource Persons (from ISRO) to enhance the Technical skills of the ECE

- i. Seminars
- ii. Mini projects
- iii. Power point presentations
- iv. Assignments
- v. EDUSAT

- vi. Innovations
- vii. Industrial visit
- viii. Guest lectures from experts
 - ix. Industrial based workshop and services

8. Participation of teachers in academic and personal counselling of students

- Periodical academic and non academic counselling for the entire department Students by Faculty advisors and class Counsellors.
- 2. Arranging Placement Oriented Programme for all the department Students
- Arranging guest lecture and technical seminars for all department students to have more exposure and latest technological developments.

9. Details of faculty development programmes and teachers who benefited during the past five years

	Year	05-06	06-07	07-08	08-09	09-10
	No. of National	5	6	4	10	10
	conference attended					
S	No. of International	1	3	3	5	18
Programmes	conference attended					
ogra	No. of Workshops/	16	20	8	8	2
Pro	Seminar Attended					
	No. of Papers	-	1	5	5	13
	published in Journals					
	Invited Lectures	6	11	7	6	-
	Pedagogy	2	5	7	12	3

10. Participation of teachers in academic activities other than teaching and research

- Involved as Class Counsellors (to regularly liaise with and keep day-to-day records of a designated class of students) and as Faculty Advisors (for counselling of an assigned group of students)
- Compiling / authoring course material for most of the theory courses assigned and developing lab manuals for the lab courses assigned
- Organising industrial visits for students and accompanying them during visits
- Organising conferences, seminars, guest lectures, student symposia, SDPs, student internships, etc
- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library)
- As resource persons for department's continuing education courses
- As Coordinators for placement training and organising on-site or off-site interviews for student placement
- Visiting industry periodically to enhance industry-academia interaction
- As guest lecturers/resource persons invited by other colleges
- As trainers for faculty or student development (department and college level)

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

Continuing Education

* MATLAB and Applications	
	5 Lakhs
*Advanced Microcontrollers (2006-2008)	
PCB design& Fabrication	
	1,64,000
(2008-2010)	

12. If research is a significant activity, what are the thrust areas of the department

- Signal and Image processing
- Embedded Systems
- Nano Technology
- Wireless Networks

13. Details of the ongoing projects and projects completed during the last five years

- Identification and counting of fertile pollen grains using MIP.
- Weed Detection Using Multi Resolution Analysis. This Project Received "Best Innovative Project Award-2009" from Indian National Academy of Engineering (INAE) New Delhi.
- Texture Based Weed Detection Using Multi Resolution Combined
 Statistical and spatial Frequency.

- Texture Based Weed detection in agricultural field using MRCSF.
- Crop and Weed Discrimination in Agricultural Field using MRCSF.
- Motions blur detection in liquid system display using Richardson Lucy Algorithm
- Classification and segmentation approach for Hepatic Tumor detection using Support Vector Machine
- Detection of tumor in MR Images using SOM (Self organizing maps
 Neural Networks).
- Wavelet Based Colour Image Compression
- Face Recognition Using Neural Networks
- Texture Image Classification using co-occurrence matrix
- MRI Segmentation Using Neural Networks
- Implementation of RSA algorithm using TMS320C6201 processor
- Image Compression Using Wavelet Transform
- Image Analysis using DFT and Wavelet Transform
- Digital Image Processing Package (DIMPAC)
- Texture Image Classification Using MRF
- Texture Image Classification Using Gabor Filtering and WSF
- Texture Image Segmentation Using Co-occurrence Matrix
- Rotation Invariant Texture Image Classification Using Radon.
- Software Defined Radio (SDR)
- Blur insensitive Texture Image Classification
- Hand written text to Digital Text Conversion using Digital Image
 Processing

14. Publications of the faculty, for the past five years. Details regarding citation index and impact factor

S.no	Name of the staff	Citation index	Impact factor
1.	Dr.R.S.Sabeenian	13	0.765

15. Participation of the department in the extension activities of the college

• At least two continuing education courses are organised every year.

16. Method of continuous student assessment

- One-hour test per course on Mondays and Wednesdays; Papers evaluated by Friday; Retest for absentees and below–par students on Saturday afternoons.
- Three weekly tests per course per semester
- University pattern model examinations for all theory and lab courses
- Assignments and Motivated Study Projects, at least two per course per semester
- Internal marks: 50% marks; Anna University exams: 50% marks
- Under autonomous system (2010 onwards) internal: external marks 25: 75

17. Placement record of the past students and the contribution of the department to the student placements

- The ECE department organises all of its placement activities.
- CTS organised 1 day workshop on the Cognition Evolved in the year 2008
 120 students participated
- UNA consultant Bangulare conducted placement workshop for GD, aptitude, Mock interview in the year 2009-120 students participated
- TIME organised aptitude workshop for 111 students in the year 2010
- 50% in 2009 and 65% in 2010 placement for the two years.
- Average monthly salary of placed students has gone up from Rs 8,000/- in 2009 to nearly Rs 20,000/- in 2010.

18. Significant achievements of the department, faculty or students during the past five years

STAFFS

Prof.B.Gopi

• "I – Fuel Indicator" Renesas Microcontroller Project Contest

Dr.R.S.Sabeenian

- "Best Faculty Award" for the Academic year 2009-2010 in the ECE/EEE
 Stream from the Nehru Group of Institutions
- Best innovative project award for "Weed Detection using Multi-Resolution Analysis" from Indian Natinal Academy of Engg, New Delhi.

- "Best Paper Award" for the following research papers in the year
 2010
- "Hand written Text to Digital Text Conversion uses Radon Transform and Back Propagation Network (RTBPN)" in the Springer LNCS, during the International Conference on Advances in Information and Communication Technologies ICT 2010 held on September 2010 at Cochin
 - "Multi Resolution Adaptive Video Streaming using Scalable Video Coding" in the IEEE Explorer, during the International Conference on Advances in Communication, Network and Computing CNC 2010 on October 2010 at Calicut
 - Awarded the Best R& D activity award from the year 2006 to 2008

Prof.D.Jayanthi

✓ ISTE-NIT Kozhikode National Award 2007 for Best B.Tech. Project"

Alcohol Carbon Mono-Oxide Monitoring Equipment"

STUDENTS

S.No	Name	University Rank	University
1	Mr.S.Senthil Balaji	1	Periyar
2	M.Ramyasri	2	
	P.T.Selvi	6	
	R.Ruchit Sharma	7	
	G.Venkata Subaramani	8	
	S.Sathish Kumar	11	
	K.Vijay	12	

S.No	Name	University Rank	University
3	S.M.Sharmila	18	Anna University
	R.Udaya Dhurga	43	
4	K.Sindhu	7	
	B.Venkateswari	32	
	C.Amsaveni	39	

19. Involvement of students in academic/co-curricular and other activities of the department

Students participating in <u>academic activities</u>

Symposia - 36, Guest Lectures - 5, Workshops - 2, In-plant Training 15, Industrial Visits – yearly once, Placement Training – 351 (2008-2010), etc

Student participating in co-curricular activities

- Intra college competitions: Paper Presentation 62; Poster
 Presentation 10;
- Technical Quiz 10
 Student participating in extra-curricular activities
- Sports and Games 15; Yoga -Nil; Cultural Activities 25

20. Innovations and best practices initiated/adopted by the departments during the last five years

- Strategic planning and implementation
- Credit Point System for student soft skills development
- Faculty Advisor Counselling Record
- Two-week and two-month student feedback on teaching-learning process
- Regular workshops for student.

- Departmental motivational awards for commendable student academic performance and best outgoing students
- Environmental-friendly principles in practise in the department
- Sona-SIPRO, PCB

University specifies innovations as a part of exercise to students. Hence studies of new / additional topics are given as innovations.

- Identification and counting of fertile pollen grains using MIP.
- Weed Detection Using Multi Resolution Analysis. This Project Received "Best Innovative Project Award-2009" from Indian National Academy of Engineering (INAE) New Delhi.
- Texture Based Weed Detection Using Multi Resolution Combined
 Statistical and spatial Frequency.
- Texture Based Weed detection in agricultural field using MRCSF.
- Crop and Weed Discrimination in Agricultural Field using MRCSF.
- Motions blur detection in liquid system display using Richardson Lucy Algorithm
- Classification and segmentation approach for Hepatic Tumor detection using Support Vector Machine
- Detection of tumor in MR Images using SOM (Self organizing maps
 Neural Networks).
- Wavelet Based Colour Image Compression
- Face Recognition Using Neural Networks
- Texture Image Classification using co-occurrence matrix

- MRI Segmentation Using Neural Networks
- Implementation of RSA algorithm using TMS320C6201 processor
- Image Compression Using Wavelet Transform
- Image Analysis using DFT and Wavelet Transform
- Digital Image Processing Package (DIMPAC)
- Texture Image Classification Using MRF
- Texture Image Classification Using Gabor Filtering and WSF
- Texture Image Segmentation Using Co-occurrence Matrix
- Rotation Invariant Texture Image Classification Using Radon.
- Software Defined Radio (SDR)
- Blur insensitive Texture Image Classification
- Hand written text to Digital Text Conversion using Digital Image
 Processing

21. Development and expansion plans of the department for the next 5 years

- An independent block with well-equipped laboratories and self-sufficient facilities, including Conference Room, Seminar Hall, , R-and-D Centre, Placement Training Centre, Student and Staff Welfare Centre, etc (2013).
- An national conference in 2013-2014
- Enhanced research activities (2011-2015)
- Enhancement of interaction with industry (2010-2015)
- Enhancement of continuing education courses (2010-2015)

22. Any other highlights

a. NBA accredited

EMBEDDED SYSTEM:

Objectives:

To enable students to get profession in microcontrollers of various company. (ATMEL, PHILIPS, Microchip Renesas) Depending upon their requirementComplete the project successfully and apply for Patent.

Activities:

Training the students to understand basics of processor programming the processor code and processor Debugging. Allocation and completion of Projects. Short term courses for UG and PG students on Embedded system.

SONA SIPRO

(SONA Signal and Image PROcessing Research Centre)

SIPRO welcomes researchers in Digital Signal and image processing field to work hand-in-hand to achieve the mystery in this field, its effect to specialize in the processing of information.

Objectives:

To specialize in the processing of data delivered by electronic eyes and to obtain reliable information from the millions of data.

To publish papers in National/International Conferences and Journals.

Activities:

Research and Development

- 1) Accurate Image classification in textile industry, agricultural, leather industry and medical applications and hence solving real time issues.
- 2) Texture image classification and segmentation as per requirements.
- 3) Designing effective algorithms in Image Restoration, Enhancement and Compression.

Training:

- Offering Short term courses in Digital Image Processing (DIP) and Digital Signal Processing (DSP) using MATLAB.
- 2. Guidance for students projects (UG/PG).
- Guiding potential research scholars to do quality research in signal and image processing.

SONA PCT

OBJECTIVES:

To provide industry oriented training in PCB design, Fabrication, Assembling & Testing and also have tie up with up growing Electronics industries for making PCBs.

ACTIVITIES:

1) TRAINING

Training offered on PCB Design and Fabrication for 75 students in

and around SONA.

2) CONSULTANCY:

Consultancy services offered in the areas of PCB Design and

Fabrication for students, local industries and for ISRO projects

handled by SONA SPEED.

Revenue Generated: Rs. 2 Lakhs

PCB DESIGN:

1. For PCB Design, the "Cadence Allegon" software is very much

suited for making the PCB design requirements as industrial

standards. It is user friendly and satisfies the industrial requirements

to design the PCB in different layers.

2. By cadence Allegero editing and antoronting is easy and its easy to

managing the different layers.

3. PCB design in orcad the layer selection and the editing of design is

difficult.

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C.Evaluative Report of the Department

Department of Computer Science and Engineering

1. Faculty profile, adequacy and competency of faculty

- 30 facultymembers
 - Professors 2; Assistant Professors 7;
 Senior Lecturers 2; Lecturers 19
- Faculty qualifications
 - PhD − 2; Masters Degree − 26; UG − 2
- Faculty strength is adequate as the teacher: student ratio is 1:15
- The faculty members are competent teachers, trained formally in pedagogy and consistently produce 100% or nearly 100% results in the courses they teach.
- 2. Student profile according to programmes of study, gender, region, etc
 - Our department offers an undergraduate programme (BE-CSE) and two postgraduates programmes ME-CSE and ME –SE
 - Total student strength
 - 547 students (first year to final year) for UG
 - 71 students (first to second year) for PG
 - Male student:248: Female Student:325
 - Total current student strength (excluding first year UG) 489
 Tamilnadu 469; other state 11; Foreign 9;

- 3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes
 - 2005-2006: Regulations 2004 of AU-Chennai No changes made *
 - 2006-2007: Regulations 2004 of AU-Chennai No changes made
 - 2007-2008:
 - Open Source System, JavaProgramming, Advanced C
 Programming are the new course introduced in 2007
 Regulation, Anna University of Technology, Coimbatore
 - Visual Programming is removed from Regulation 2004 Anna University, Chennai.
 - 2008 2009:
 - PC Hardware and Trouble Shooting, Formal Languages and Automated Theory are the new courses introduced in Regulation 2008, Anna University of Technology, Coimbatore
 - System Software is removed from regulations 2007 Anna
 University of Technology, Coimbatore.
 - 2009-2010 : Regulation of 2008of Anna University of Technology, Coimbatore –

No changes made

No faculty contribution in curriculam and regulation as Sona College
of Technology is affiliated to Anna University, Chennai till 20062010 batch and affiliated to Anna University of Technology,
Coimabtore 2007-2011 batch onwards.

• 2010-2011

SCT is conferred Autonomous status in the academic year 2010-11. Advanced C Programming Theory and C Programming Laboratory courses are newly added to the II Semester curriculam for the benefit of students.

- 4. Trend in the success rate and drop out rate of students during the last five years
 - Academic results: 2003-07 batch- 96%, 2004-08 -95%, 2005-09 batch
 97%; 2006-10 batch 96.96%
 - The drop out rate is 2%
- 5. Learning resources of the department like library, computers, laboratories and other such resources

.

- The CSE Department's Learning Resources Centre (LRC) has,
 - Adequate reading-room space (an exclusive room)
 - Titles 989; volumes 3094; Journals -32 Tutorial CDs-32
 - Computers with internet connection for students use
 - A 'Career Corner' with relevant resources
- One internet access point is available in the department for every two faculty members (16 internet-enabled computers)
- Teaching aids: 4VHPs are fixed in four classrooms. In addition, 2 standalone VHPs, 2 OHPs and 3 laptops and NetBooks are available

6. Enhancement of the learning resources during the past five years.

- There has been a two-fold increase in the number of learning resources in the past five years, from 1627 books in 2006 to 3094 in 2010
- Also, there is a proportional increase in number of computers in the past five years from 125 computers in 2006 to 248 in 2010

7. Modern teaching methods in practice other than the lecture method

- Organizing Technical Lectures (Resource Persons from reputed organisations like ISRO,CTS, Wipro, IBM and Infosys) to enhance the technical skills of CSE students
- Professional and Technical Association activities (CSI, IEEE and ISTE)
- The modern teaching methods currently prevalent are Seminar,
 Group Discussion, Quiz, Team Teaching, Demonstration, Field trip,
 In-plant training, Project presentation, video conferencing, Webinars
 etc

8. Participation of teachers in academic and personal counselling of students

- The students are divided into groups of around 20 each and assigned to the faculty such that every faculty acts as a 'Faculty Advisor' for a specific group of students
- There is a counselling hour every week, such that every student is counselled once in a fortnight on academic or personal matters
- The Faculty Advisors maintain all counselling records

Details of faculty development programmes and teachers who benefited during the past five years

Over the last five years (2005-2010), the total number of faculty who have benefitted from various faculty development programmes are listed below:

- National Conferences 64
- International Conferences 9
- Technical Seminar/Workshops/Pedagogical Training 87
- Invited lectures 41

10. Participation of teachers in academic activities other than teaching and research

- Involved as Class Counsellors (to regularly liaise with and keep day-to-day records of a designated class of students) and Faculty Advisors (for counselling of an assigned group of students)
- Compiling / authoring course material for most of the theory courses assigned and developing lab manuals for the lab courses assigned
- Organising industrial visits for students and accompanying them during visits
- Organising conferences, seminars, guest lectures, student symposia, Staff
 Development Programmes, student internships, etc
- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library)
- As resource persons for department's continuing education courses

- As Coordinators for placement training and organising on-site or off-site interviews for student placement
- Visiting industry periodically to enhance industry-academia interaction
- As guest lecturers/resource persons invited by other colleges
- As trainers through technology based Education and Evaluation
- As trainers for faculty or student development (department and college level)
- Involved in Academic reform, examination reform and student non formal education.

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

- A National Conference on "Innovative Computational Intelligence & Security System "NAC-CISS'07" – sponsored by AICTE & ISTE was conducted by our department, IT and MCA on 2-3, Feb 2007
- ISTE Regional Conference on "Strategies for Enhancing Research in Technical Institutions", organized by ISTE-New Delhi and TN & P
 Section and Sona College of Technology, Salem on 13-14, Nov 2009
- A National Level Technical symposium "Threads 10" sponsored by CSI was conducted by our deapartment
- A National Level Technical symposium "Threads 06" sponsored by CSI and ISTE was conducted by our deapartment
- MoU with ICTACT, Tamilnadu. The staff of Sona will be trained by ICTACT to make the students readily available for corporate sectors.
 Faculty members and students would receive the funds for research and development activities.

12. If research is a significant activity, what are the thrust areas of the department

- Wireless Sensor Network
- Data Mining
- Bioinformatics
- Information Retrieval
- Artificial Intelligence
- Web Services
- Network Security

13. Details of the ongoing projects and projects completed during the last five years

Ongoing Projects:

- Mobile Application for Apple Mac system
- Securing Wireless Ipv6 Networks against DDoS Attacks
- Development of a Test bed to Study the Performance of Multimedia Applications in the Current Internet
- Predictive analysis of clinical databases
- Design and development of Association Rule based actionable
 Knowledge discovery Techniques

Completed Projects:

- Quality of Service support for wired networks
- Analysis of Active Queue Management Algorithms for wireless
 AdHoc Networks

- FIFO_VQ Scheduler for Grid sim v 4.1
- Enhanced routing protocol for mobile ad-hoc network
- Structural Health Monitoring using Wireless Sensor Networks
- Mining Gene Expression data using clustering techniques and Patient Record Clustering
- A Framework develop for identifying causes a symptoms of Chikungunia diseases
- Design and Development of Building plans storage, project management system ,WLAN Implementation

14. Publications of the faculty for the past 5 years. Details regarding citation index and impact factor.

Name of the Staff	Publications	Impact
		Factor
Dr.M.Usha	International Journal of Business	0.8
	Information Systems	
	Journal of Computer Society of India	-
	Asian Journal of Information Technology	-
	International Journal of Computer Science	-
	and System Biology	
Dr.B.Sathiyabhama	WSEAS Transactions on Information	0.1
	Science and Applications	
	Journal of Current Science	0.2
	International Journal of Computational	-
	Intelligence and Healthcare Informatics	
	IJCSES International Journal of Computer	-
	Sciences and Engineering System	
	0.36	

15. Participation of the department in the extension activities of the college

(1) Providing value added courses through Continuing Education (2) Consultancy service through Networking, Web Hosting, Web Designing etc., (3) Research and development (5) IBM Centre of Excellence (6) Infosys Campus Connect Programme (7) Oracle Academy (8) Centre of Excellence for Sona NET (9) Centre of Excellence for Sona MINE (10) Acting as a chief superintendent for conducting Anna University, Coimbatore examinations, Overall coordinator of the CSI (11) Acting as a member secretary, Academic

16. Method of continuous student assessment

council of the College

- One-hour test per course on Mondays and Wednesdays; Papers evaluated and distributed to the students by Friday; Retest for absentees and below– par students on Saturday afternoons; Weekly test in Maths courses – every
 Friday (duration -one hour)
- Three weekly tests per course per semester
- Model examinations (University pattern) for all theory and lab courses
- Assignments and Motivated Study Projects at least two per course per semester
- Internal evaluation: 50% marks; Semester (University)examination: 50% marks
- Under autonomous system(2010 onwards) internal: external marks is 25:
 75

17. Placement record of the past students and the contribution of the department to the student placements

- A pre-scheduled placement training plan is implemented at the departmental level every year
- Average monthly salary of placed students has gone up from `13000 in 2009 to nearly `18000 in 2010

18. Significant achievements of the department, faculty or students during the past five years

Faculty:

- Dr.M.Usha and Dr.B.Sathiyabhama are Recognized supervisors in Anna University of Technology, Ciombatore
- Dr.M.Usha was recognized in Marquis Who's who in the world, USA in the year 2008
- Dr.B.Sathiyabhama was recognized in Marquis Who's who in the world, USA and Cambridge Who's who in the world in the year 2010
- CSI Salem chapter office bearers: Dr M.Usha Vice Chair and Dr B.Sathiyabhama - Secretary
- Dr.B.Sathiyabhama is invited as a speaker in International Conference and Exhibition on Proteomics and Bioinformatics to be held in hyderabad on Jan 27-29, 2011

Students:

a) University Results

• The Computer Science Department of Sona College produces university rank holders every year

b) Student achievements

- 10 teams were participated in face to face evaluation, IBM Great Mind
 Challenge
- Ms.A. Shobana and Mr. Ram Shankar won the best project award in M/S Honeywell Technologies, Bangalore.
- G. Srinivasan (2006-10) presented a paper "Load balancing for mobile network" in BITS Pilani
- C. Oswald(2005-09) presented a paper "Image processing in parallel computer using Beowulf clusters" in BITS Pilani
- C. Oswald(2005-09) presented a paper in 58th International Astranautical Congress held in Hyderabad in Sep 2007.
- C. Kavya (2006-10) won the meritorious sportsmen for employment given by Anna University sports board, Chennai
- Every year, students (BE & ME) taking up project internship at reputed organizations (Honeywell, Checktronics, Mukesh associates and, Cognizant Technologies)

c) University Ranks

• 2004-2008 Batch: Four university ranks (10, 11, 30 and 36) in Anna university, Chennai

- 2005-2009 Batch: One university rank (45th) in Anna university, Chennai
- 2006-2010 Batch: One university rank (11th) in Anna university,
 Chennai

19. Involvement of students in academic/co-curricular and other activities of the department

- Students participating in academic activities
 - Symposia Organised 3 Symposium Participation:489
 - Workshops − 30
 - In-plant Training 36
 - Industrial Visits 8
 - Placement Training -130
- Student participating in co-curricular activities

Intra-college competitions

- Paper Presentation 30
- Technical Quiz 15

<u>Inter-college competitions:</u>

- Paper Presentation 40
- Technical Quiz 14
- Student participating in extra-curricular activities
 - Sports and Games 56
 - Cultural Activities 40

20. Innovations and best practices initiated/adopted by the departments during the last five years

- Strategic planning and implementation
- Credit Point System for student soft skills development
- Exclusive record maintanance for Faculty Advisor Counselling
- Arrears Clearance Plans-Slowrunners are given special coaching
- Periodic motivational handouts for staff and students
- Student feedback on teaching-learning process done twice in a semester
- Regular workshops for student soft-skills development
- Identification of student and faculty learning styles
- Self-evaluation of faculty using a specific format
- Motivational awards for commendable student academic performance and best outgoing students
- Energy efficient computing principles are practised in the department

21. Development and expansion plans of the department for the next 5 years

- An independent block with well-equipped laboratories and self-sufficient facilities including Conference Room, Seminar Hall, Learning Resources
 Centre (LRC), R&D Centre, Placement Training Centre, Student, Staff
 Welfare Centre, etc (2011).
- To obtain funding for R & D projects from agencies like ISRO, DST,
 AICTE and DIT
- To form different clubs like software development club, innovative idea club, problem solving club and demonstration club
- An international conference is scheduled in 2012-2013

- Establishment of an Industrial Training Centre in 2012-2013
- Enhanced research activities and quality publications are our continuous objectives
- Enhancement of Industry/Institute interaction in 2010-2015
- Enhancement of continuing education courses in 2010-2015

22. Any other highlights

- The department is recognised as a research centre for Ph.D by Anna University of Technology, Coimbatore
- B.E. CSE programme has been accrediated by NBA
- The department has two centres of excellence (SonaNet and SonaMine)

SONANET (SONA NETWORK COMPUTING RESEARCH CENTRE)

Objectives:

- To develop new architecture / Technologies in Networking and related areas
- To provide consultancy services tailored to the needs of organizations for innovative IT solutions in these areas

SONAMINE (CENTER FOR DATAMINING AND DATA SYSTEM DESIGN)

Objectives: -

- To develop pioneering tools and applications applied to database and data mining
- To obtain patents for the framework developed

C. Evaluative Report of the Department

Department of InformationTechnology

- 1. Faculty profile, adequacy and competency of faculty.
 - Faculty members: 25. (Professors: 3, Assistant Professors: 9,

Senior Lecturers: 2

Lecturers: 11)

- Professors qualified Ph.D: 2.
- Research scholars: 13
- Nearly 50% of the faculties were above 10 years of experience.
- 2. Student profile according to programmes of study, gender, region etc.
 - 4 years. B.Tech IT programme is offered.
 - Total student strength 430 students (II year to IV year). Male:
 202, Female: 228
 - Region: Tamilnadu 419 students; Other State: 1; NRI: 10.
- 3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes.
 - 2005-2006: Regulations 2004 of AU-Chennai No changes made.
 - 2006-2007: Regulations 2004 of AU-Chennai No changes made.
 - 2007-2008: New courses were introduced in the 2007 Regulations of AUT-CBE and some courses of the R2004 AU-Chennai were removed.

- 2008-2009: New courses were introduced and some courses were removed.
- 2010-2011: (Autonomous Curriculum): New courses were introduced in the II semester.
- No faculty contribution is made from 2005-2010, since the institution is affiliated to Anna University, Chennai from 2005-2007 and Anna University of Technology, Coimbatore from 2007-2010.

4. Trend in the success rate and drop out rate of students during the last five years.

• Batch	Success rate	Drop out rate
• 2002-2006	85.15%	14.85%
• 2003-2007	92.23%	7.77%
• 2004-2008	97.00%	3.00%
• 2005-2009	97.03%	2.97%
• 2006-2010	91.26%	8.74%

5. Learning resources of the department like library, computers, laboratories and other such resources.

- Department Library Books: 956.
- Journals: 18 National and 36 International Journals.
- CD's: 128.
- Video Lectures: 7
- Computer Labs: 4
- Computers: 350

6. Enhancement of the learning resources during the past five years.

- CCNA Certification.
- RHCE Certification.
- IBM WAS, WSAD Certification.
- HP IT Essentials and Sun Certification.
- Library books: 626 books in 2006. 956 book in 2010.

7. Modern Teaching methods in practice other than the lecture method.

 Guest Lecture, Seminars, Group Discussions, Demonstration and Practice, Industrial Visit, In-plant Training, Project Work, Team Teaching, Case Study and Webinars.

8. Participation of teachers in academic and personal counseling of students.

- Weekly Test will be conducted for all subjects in three Cycles.
- Assignments will be given.
- For every 10 students there will be a faculty advisor for monitoring
 the students on their performance, attendance, need for personality
 development, Inspiring Awards, discipline, dress code and
 avoiding the cell phone use in the college campus. All the above
 details were monitored and counseled.
- SPA Form (Students Performance Analysis) use to analysis the performance of the students in their weekly test.
- Intensive Coaching and Model exam will be conducted at the end of the semester to improve their marks in the University examinations.

9. Details of faculty development programmes and teachers who benefited during the past five years.

Over the last five years (2005-2010), the total number of faculty who have benefitted from different development programmes are as listed below:

- National Conferences attended 23
- International Conferences attended 16
- Technical Seminars attended 35
- Workshops attended 50
- Pedagogical Training attended– 9
- Faculty development programme on "Computer Architecture" was oganised from 21-11-05 to 26-11-05 (1 week); nearly 15 staff members were benefited.
- Faculty development programme on "Software Engineering" was oganised from 04-12-07 to 16-12-07 (2 weeks); nearly 27 staff members were benefited.
- Staff development programme on "Open Source Systems
 (Applications of Linux Apache MySQL Php/Python) LAMP"
 was oganised from 06-07-09 to 10-07-09 (1 week); nearly 30 staff members were benefited.

10. Participation of teachers in academic activities other than teaching and research.

 Pedagogical Training, Faculty training, attending seminar, workshop and technical events.

- Staff members are representing national and International conference and symposium and acting as Juries / Judges and also various technical events.
- Involved as Class Counsellors (to regularly liaise with and keep day-to-day records of a designated class of students) and as Faculty Advisors (for counselling of an assigned group of students).
- Compiling / authoring course material for most of the theory courses assigned and developing lab manuals for the lab courses assigned.
- Organising industrial visits for students and accompanying them during visits.
- Organising conferences, seminars, guest lectures, student symposia, SDPs, student internships, etc.
- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library).
- As resource persons for department's continuing education courses.
- As Coordinators for placement training and organising on-site or off-site interviews for student placement.
- Visiting industry periodically to enhance industry-academia interaction.
- As guest lecturers/resource persons invited by other colleges.
- As trainers for faculty or student development (department and college level)

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years.

- A National Conference on "Innovative Computational
 Intelligence & Security System "NAC-CISS'07" sponsored by
 AICTE & ISTE was conducted by our dept., CSE and MCA on 2nd
 and 3rd of Feb'07.
- ISTE Regional Conference on "Strategies for Enhancing Research
 in Technical Institute organized by ISTE –New Delhi TN & P
 Section and Sona College of Technology, Salem on 13-11-09 and
 14-11-09.

12. If research is a significant activity, what are the thrust areas of the department.

 Computer Networks, Network Security, Data Mining, Open Source Software, Image Processing, Web Services.

13. Details of the ongoing projects and projects completed during the last five years.

• Ongoing Projects:

Indira Gandhi Centre for Atomic Research, Kalpakkam, Chennai.

- a) UML 2.0 based modeling and automatic code generation for Embedded System important to safety for Fast Breeder Reactor (FBR).
- b) MISRA 'C' Rule checker for Real time program.
- c) Open Source Tools (QT Graphics Library, Real time Java) based GUI for plant application on Linux platform.

• Completed Projects:

Tamil Nadu State Council for Science & Technology

- a) Remote Controlled PC(Student Projects Scheme). (2004-2005)- Dt: 31-01-05)
- b) Use of Bright White LED's as street lights in rural areas (Student Projects Scheme (2006-2007)Dt: 06-12-06)

M/s. Burning Glass, USA.& M/s. Checktronix India (P) Ltd. Dharmapuri.

- a) Focus Web Based Applicant Tracking System.
- b) Component Based Interface for LENS.
- c) Alternatives for Multithreaded Application Performance Tuning.
- d) Alternatives for Lexes for Unicode Documents.
- e) Integrated CPM and CTM for automating the Specification Based Test case Generation.
- f) Relation Based Similarity Score Test Case Prioritization.

M/s. Infosys

- a) A test Framework to validate Applications upon deployment of Security Upgrades.
- 14. Publications of the faculty, for the past five years. Details regarding citation index and impact factor.
 - Journal Publication: 13.
 - Paper publications National/ International: 58
 - Citation Index and impact factor: Nil.

15. Participation of the department in the extension activities of the college.

- Providing value added courses through Continuing Education.
- Providing Consultancy service through Networking, Web Hosting,
 Web Designing etc.,
- Research and development.
- FOSS Centre of Excellence.
- IBM Centre of Excellence.
- Infosys Campus Connect Programme.
- Centre of Excellence for Web services and Development. Sona
 Web.

16. Method of continuous student assessment.

- Weekly Tests, Assignments, Model Exams.
- Assignments given periodically and evaluated.
- Performance analysis / Student counseling.
- Uploading the test marks into the Management Information System.
- Informing parents about their wards' performances after every testcycle.
- Parents have access to data on their wards' attendance and test performances.

- 17. Placement record of the past students and the contribution of the department to the student placements.
 - Placement record: 2002-06: 43%, 2003-07: 61%, 2004-08: 79%, 2005-09: 35%, 2006-10: 50%.
 - Department acted as communicating media between the alumni resource persons and the current final year students for having the technology and knowledge transfer.
 - Technical mock interviews were conducted by the department for the final year students.

18. Significant achievements of the department or faculty or students during the past five years Students.

University Ranks:

- 2002-2006 Batch: 4 University ranks 18th, 30th, 40th and 48th
 Ranks.
- 2003-2007 Batch: 3 University ranks -21^{st} , 38^{th} and 4^{th} Ranks.
- 2006-2010 Batch: 4 University ranks 17th, 42nd, 45th and 48th
 Ranks.

Placement:

• Refer 17.

Students Project:

V. Ganesh Babu, K. Ezhilarasan and A. Kathikeyan – (2004-2006 Batch) won the First Prize for the Project Model Presentation for the project titled "Remote Control PC' sponsored by the Tamil Nadu State Council for Science and Technology on 20-08-05.

Karthikeyan. T and Gowtham. P - (2003-2007 Batch) won the
First Prize for the Project Model Presentation for the project titled
"Use of Bright White LED's as street lights in rural areas"
sponsored by the Tamil Nadu State Council for Science and
Technology on 25-08-07.

Student's achievements:

- B. Manikandan won the Gold Medal in Power Lifting (Men) held
 by the Anna University, Zone VI Tournament (State Level) on
 04-11-05.
- Somasundaram. B. K of 2004-08 batch had been selected in the pH Test (National Level test with Stiff Competition) conducted by M/s. eLitmus Evaluation Pvt. Ltd on 20-02-09.
- M/s. Opera Software congratulates Sethu Raman. M. III year B
 Sec for achieved Silver 2 level membership for being one of the most active members of the Opera Campus Crew for the January-June semester 2010.
- M. Muthukumar III year 'C' Sec. participated and won the
 Bronze Medal in Asian Power Lifting Championship
 (International) held at Mongolia from 01-05-10 to 05-05-10.
- P. Surya. IV year 'B' Sec has been selected as the Google

 Ambassador for the year 2010-2011. She has also been selected as
 one among 9 in the world this year. She is a past of Google's

 Expert User Group representing 57 products, consisting of 100

members. She represents the Google products – Google Calendar, Google Groups and Google Talk.

Silambarasan. K. – III year (Microsoft Student Partner (MSP)
 organized the Awareness programme on Microsoft "DreamSpark
 Yatra" – Sponsored by Microsoft IT Academy, Bangalore on 30 03-10.

Department:

- The institution is the nodal centre for promoting free open source software (FOSS) approved by Anna University and the Centre for Development of Advanced Computing (CDAC), a national resource centre for FOSS.
- One day First Intellectual National Seminar on Applications of Network Security - ANS'09 was organized by the Association of IT on 11-04-09 in our P. G. Auditorium.
- Microsoft is creating an awareness programme for young engineering students (CSE, IT, ECE, EEE, MCA) to acquire knowledge on the latest technologies through their experts. In connection with that, MICROSOFT DREAMSPARK Yatra has been organized by the Department on March 30, 2010.

Faculty:

Prof. G. Prakash. Asst. Professor was deputed for sabbatical work on Software Engineering Research at M/s. Infosys,
 Bangalore for a period of 8 weeks starting from 9th May 2007.

Mr. G. Prakash. Asst. Professor has been selected for the IASc-INSA-NASI Summer Research Fellowship in 2009 under the guidance of Prof. N. Balakrishnan, S. E. R. C Indian Institute of Science, Bangalore from 01-03-09.

19. Involvement of students in academic/co-curricular and other activities of the department.

- Students participating in <u>academic activities</u>
 - Symposia 44
 - Workshops 10
 - In-plant Training 3
 - Industrial Visits 5
 - Placement Training 15
- Student participating in co-curricular activities

<u>Intra-college competitions</u>

- Paper Presentation 1
- Technical Quiz 5

<u>Inter-college competitions</u>:

- Paper Presentation 68
- Technical Quiz 14
- Student participating in extra-curricular activities
 - Sports and Games 43
 - Cultural Activities 9
 - Painting Competition 4
 - NCC − 8

- Blood Donor's Club 1
- Women Development Wing 3
- YRC − 11
- NSS 3

20. Innovations and best practices initiated/adopted by the departments during the last five years.

• <u>Centre for Research and Development of Free Open Source</u> Software

To develop projects using Open Source Technology based on the industry needs and problems and to promote Open Source awareness to be students and near by industries.

• IBM Centre of Excellence

To offer training in the best available software like WSAD, WAS and DB2, with continued access to further application of IBM's breakthrough technology.

• Centre for Infosys Campus Connect Programme

To facilitate student knowledge in the basics of IT and Computer Science Skills and to make them employable.

• Anna University Edusat Programme

To make an improvement in the quality of instruction, training and skill development.

• Indo – US/iitb E – Learning

Establishing an exclusive satellite interactive network and providing higher level learning in engineering subjects.

• Microsoft IT Academy

Established in the department of Information Technology to create awareness among faculties and students to know about the Microsoft products, training and certifications. The Microsoft IT Academy Program benefits for institutions that subscribe through a Microsoft Campus Agreement or Microsoft School Agreement are equivalent to the Advanced level program benefits like

- Rich, interactive e-learning.
- Essential computer skills training.
- Academic pricing on MOAC textbooks.
- Instant access to Microsoft Press books online.
- Academic pricing on Microsoft Certification exams.
- Become a Microsoft Certification testing center.
- One free Microsoft Certified Trainer (MCT) membership.

21. Development and expansion plans of the department for the next 5 years.

- To start 2 P. G. Programmes.
 - a) M. Tech IT (Wireless Communication and Sensor Networks)
 - b) M. Tech IT (Intelligent systems).
- To strengthen R & D centre's by incubating the ideas.
- To obtain funding for R & D projects from agencies like ISRO,
 DST, AICTE, DIT etc.
- To depute students to reputed institutions and industries for summer internship.

- To strengthen alumni interaction.
- To offer value added courses.
- To form different clubs like software development club, innovative idea club, problem solving club, demonstration club, etc.
- To provide mini projects to students in important practical subjects.
- To make project compulsory during summer vacation for II, III and IV years.

22. Any other highlights.

- The department is producing university ranks consistently for the past 9 years.
- The department has two centers of excellence namely
 - center for free open source focuses on developing software using open source systems
 - center for web services and development focuses on development
 of personalized web services and ontology
- Mr. Prakash, AP/IT had attended sabbatical training on live projects in Infosys, Bangalore and IISc, Bangalore. He also disseminated the knowledge gained to his fellow teachers.
- The department is a recognized research center of Anna University, Coimbatore for guiding Ph.D scholars.
- The department has obtained a project using open source software from IGCAR, Chennai
- The department has also obtained a project on control systems from IIT,
 Mumbai.

- The department faculty has got research and staff development programme grants from AICTE for Rs. 5,00,000 and Rs. 7,00,000 respectively.
- The department has a good strength of alumni who are regularly visiting the department for training the students for placements.
- The faculty members have published their research works in reputed journals.

Evaluative Report of the Department

Department of Civil Engineering

1. Faculty profile, adequacy and competency of faculty

- 18 Civil faculty: Professors 2; Assistant Professors 4; Senior
 Lecturers 4; Lecturers 8 Faculty qualifications: PhD 2; Masters
 Degree 13; UG 3
- Faculty strength is adequate as the teacher: student ratio is 1:13
- The faculty are competent teachers, trained formally in pedagogy, and consistently produce 100% or nearly 100% results in the courses they teach.

2. Student profile according to programmes of study, gender, region, etc

- Only one four-year BTech Civil Engineering programme is offered.
- Total student strength 416 students (first year to final year)
- Male student: Female student ratio is about 269:147
- Total current student strength (excluding first year): 292

3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes

[Each department may provide information as follows:

2005-2006: Regulations 2004 of AU-Chennai – No changes made

2006-2007: Regulations 2004 of AU-Chennai – No changes made

2007-2008: New Courses introduced

- Basic Structural Design.
- Concrete and Highway Laboratory.
- Concrete Technology (Elective).
- Project formulation and management (Elective)
- Project formulation and management (Elective)

Courses Removed:

- Principles of Management.
- Municipal Solid Waste and Management (Elective)
- Intellectual Properly rights (Elective)
- OOPS(Elective)
- Total Quality Management
- Habitat System and Design.
- Rock Engineering.
- Ecological Engineering.
- Design of Plate and Shell Structures.
- Wind Engineering.

2008-2009: New Courses introduced

• Municipal Solid Waste and Management (Elective)

Courses Removed:

- Principles of Architecture.
- Survey camp.
- Engineering Economics.

• Indian constitution and society(Elective)

4. Trend in the success rate and drop out rate of students during the last five years

- Four batches of students have graduated (2007, 2008, 2009 &2010).
- Academic results: 2009 batch 89%; 2010 batch 93%
- The dropout rate is negligible.

5. Learning resources of the department like library, computers, laboratories and other such resources

- Six Laboratories: Five labs equipped with latest equipment; the CAD Lab has 60 computers.
- The Civil Department's Learning Resources Centre (LRC) has,
 - Adequate reading-room space (an exclusive room)
 - No of Books 584
 - 15 computers with internet connection for student use
 - A "Civilions Corner" with relevant resources
- One internet access point is available in the department for every two faculty members (Nine internet-enabled computers)
- Teaching aids: VHPs and computer sets 3 sets (classroom use)

6. Enhancement of the learning resources during the past five years.

• There has been a increase in the number of learning resources in the past five years, from 60 books in 2006 to 584 in 2010.

7. Modern teaching methods in practice other than the lecture method

 The modern teaching methods currently prevalent are Seminar, Group Discussion, Quiz, Team Teaching, Demonstration, Drill and Practice, Field Trip, In-plant training, Project Work, etc

8. Participation of teachers in academic and personal counselling of students

- The students are divided into groups of around 20 each and assigned to the faculty such that every faculty acts as a 'Faculty Advisor' for a specific group of students.
- There is a counselling hour every week, such that every student is counselled once a fortnight on academic or personal matters.
- The FAs maintain all counselling records in an exclusive book.

Details of faculty development programmes and teachers who benefited during the past five years

Over the last five years (2005-2010), the total number of faculty who have benefitted from different development programmes are as listed below:

- National Conferences 30
- International Conferences 12
- Technical Seminars 10
- Workshops 10
- Pedagogical Training 8

10. Participation of teachers in academic activities other than teaching and research

- Involved as Class Counsellors (to regularly liaise with and keep day-to-day records of a designated class of students) and as Faculty Advisors (for counselling of an assigned group of students)
- Compiling / authoring course material for most of the theory courses assigned and developing lab manuals for the lab courses assigned
- Organising industrial visits for students and accompanying them during visits
- Organising conferences, seminars, guest lectures, student symposia, SDPs, student internships, etc
- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library)
- As resource persons for department's continuing education courses
- As Coordinators for placement training and organising on-site or off-site interviews for student placement
- Visiting industry periodically to enhance industry-academia interaction
- As guest lecturers/resource persons invited by other colleges
- As trainers for faculty or student development (department and college level)

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

S.	Collaboration	Purposeof	Outcomes	
No.	with	Collaboration		
	K.M.C	Training Consultancy		
1	Constructions,	for different levels of	SeveralTraining	
	Hyderabad.	Employees	Programmes conducted	

12. If research is a significant activity, what are the thrust areas of the department

- Concrete Technology.
- Earthquake Resistant Design.
- Water Distribution Network.

13. Details of the ongoing projects and projects completed during the last five years

• Concrete Technology : Ongoing projects – 4: Completed – 1

• Earthquake Resistant Design: Ongoing projects – 3; Completed – 1

• Water Distribution Network : Ongoing projects – 1; Completed – Nil

14. Publications of the faculty, for the past five years. Details regarding citation index and impact factor

Journal publications: 12; Conference publications: 20; Total – 32

15. Participation of the department in the extension activities of the college

- Department takes up the "Masons Training Programme" for the upliftment of rural youth and so far two batches (50 Participants) have been trained.
- Continuing education courses are organised every year.

16. Method of continuous student assessment

- One-hour test per course on Mondays and Wednesdays; Papers evaluated by Friday; Retest for absentees and below–par students on Saturday afternoons; Weekly test in Maths courses – every Friday, one hour
- Three weekly tests per course per semester
- University pattern model examinations for all theory and lab courses
- Assignments at least two per course per semester
- Internal marks: 50% marks; Anna University exams: 50% marks
- Under autonomous system (2010 onwards) internal: external marks 25: 75

17. Placement record of the past students and the contribution of the department to the student placements

• The Civil Department organises all of its placement activities.

Batch	Total	Campus	Off	Own	Higher
	Students	Placement	Campus	Business	Studies
2003 – 07	61	34	16	0	11
2004 - 08	70	37	21	4	8
2005 - 09	65	13	40	6	6
2006 – 10	66	15	41	5	5

 Average monthly salary of placed students has gone up from Rs 8,000/- in 2007 to nearly Rs 12000/- in 2010.

18. Significant achievements of the department, faculty or students during the past five years

a) University Results:

- The Civil Engineering Department of Sona College stands within Top 10 in academic performance among the affiliated colleges under AU-Chennai offering Civil Engineering.
- **b) Placement:** As stated above under Point 17.

c) University Ranks

- 2003-2007 Batch: Three University ranks 9th, 12th & 24th of only fifty ranks announced by the university.
- 2004-2008 Batch: Two University ranks 45th & 47th of only fifty ranks announced by the university.
- 2005-2009 Batch: One University rank 49th of only fifty ranks announced by the University.
- 2006-2010 Batch: Four University ranks 15th, 41st, 44th and 47th of only fifty ranks announced by the University.

19. Involvement of students in academic/co-curricular and other activities of the department

Students participating in academic activities

Symposia - 40, Guest Lectures - 25, Workshops - 20, In-plant Training 60, Industrial Visits - 20, Placement Training - 40.

Student participating in co-curricular activities

- Intra-college competitions: Paper Presentation 60; Poster Presentation -50; Technical Quiz - 50.
- Inter-college competitions: Paper Presentation 60; Poster Presentation -50; Technical Quiz - 50.

Students participating in extra-curricular activities

• Sports and Games - 60; Yoga -50; Cultural Activities – 100.

20. Innovations and best practices initiated/adopted by the departments during the last five years

- Team Teaching.
- Students Counselling Methods.
- Arrears Clearance Plans.
- Motivational Lectures by Faculty.
- Special lectures by visiting Faculty.

21. Development and expansion plans of the department for the next 5 years

- An exclusive Block Comprising of all facilities for the civil Engineering Department by 2012.
- An International conference in 2012 13.
- Introduction of M.E Programme in 2012 13.
- Enhanced research activities (2010 2015)
- Enhancement of industry interaction (2010 2015)
- Enhancement of Continuing Education Courses (2010 2015)

22. Any other highlights

- The department is recognised as a research centre for PhD by Anna University of Technology Coimbatore.
- The department is carrying out all construction and maintenance works in the Campus.

C.Evaluative Report of the Department

Department of Fashion Technology

1. Faculty profile, adequacy and competency of faculty

12 FT faculty: Professors – 2; Assistant Professors – 3; Senior
 Lecturers – 2; Lecturers – 5

Faculty qualifications: PhD - 1; Masters Degree - 9; UG - 2

- Faculty strength is adequate as the teacher: student ratio is 1:15
- The faculty are competent teachers, trained formally in pedagogy, and consistently produce 100% or nearly 100% results in the courses they teach.

2. Student profile according to programmes of study, gender, region, etc

- Only one four-year BTech FT programme is offered.
- Total student strength 250 students (first year to final year)
- Male student: Female student ratio is about 2:3 (107: 149)
- Total current student strength (excluding first year): 199
 Tamilnadu 191 students; Kerala 6; Karnataka 2

3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes

[Each department may provide information as follows:

2005-2006: Regulations 2004 of AU-Chennai – No changes made

2006-2007: Regulations 2004 of AU-Chennai – No changes made

2007-2008: List of new courses introduced in the 2007 Regulations of AUT-CBE and the corresponding courses of the R2004 AU-Chennai that were removed

2008-2009: List of new courses that were introduced and the corresponding courses that were removed

2010 (Autonomous Curriculum): Will be given by Dr. Karunakaran in the First year evaluation report.]

4. Trend in the success rate and drop out rate of students during the last five years

- Only two batches of students have graduated (2009 and 2010).
- Academic results: 2009 batch 93.44%; 2010 batch 98.46%
- The drop out rate is negligible.

5. Learning resources of the department like library, computers, laboratories and other such resources

- Six Laboratories: Five labs equipped with industry-grade textile/garment equipment; the CAD Lab has 33 computers.
- The FT Department's Learning Resources Centre (LRC) has,
 - Adequate reading-room space (an exclusive room)
 - Titles 636; volumes ?; reference books ?

- Two computers with internet connection for student use
- CBT packages in three textile courses
- A 'Career Corner' with relevant resources
- One internet access point is available in the department for every two faculty members (six internet-enabled computers
- Teaching aids: VHPs and computer sets 3 sets (classroom use)

6. Enhancement of the learning resources during the past five years.

• There has been a seven-fold increase in the number of learning resources in the past five years, from 93 books in 2006 to 636 in 2010.

7. Modern teaching methods in practice other than the lecture method

 The modern teaching methods currently prevalent are Seminar, Group Discussion, Quiz, Team Teaching, Demonstration, Drill and Practice, Field Trip, In-plant training, Project Work, etc

8. Participation of teachers in academic and personal counselling of students

- The students are divided into groups of around 20 each and assigned to the faculty such that every faculty acts as a 'Faculty Advisor' for a specific group of students.
- There is a counselling hour every week, such that every student is counselled once a fortnight on academic or personal matters.
- The FAs maintain all counselling records in an exclusive book.

9. Details of faculty development programmes and teachers who benefited during the past five years

Over the last five years (2005-2010), the total number of faculty who have benefitted from different development programmes are as listed below:

- National Conferences 8
- International Conferences 7
- Technical Seminars 11
- Workshops 7
- Pedagogical Training 11

10. Participation of teachers in academic activities other than teaching and research

- Strategic planning and implementation every faculty is either a Thrust
 Area Managers or a Joint Thrust Area Managers for thrust areas identified
 for departmental development
- Involved as Class Counsellors (to regularly liaise with and keep day-to-day records of a designated class of students) and as Faculty Advisors (for counselling of an assigned group of students)
- Compiling / authoring course material for most of the theory courses assigned and developing lab manuals for the lab courses assigned
- Organising industrial visits for students and accompanying them during visits

- Organising conferences, seminars, guest lectures, student symposia, SDPs, student internships, etc
- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library)
- As resource persons for department's continuing education courses
- As Coordinators for placement training and organising on-site or off-site interviews for student placement
- Visiting industry periodically to enhance industry-academia interaction
- As guest lecturers/resource persons invited by other colleges
- As trainers for faculty or student development (department and college level)

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

S. No.	Collaboration with	Purpose of Collaboration	Outcomes
1	 Sona Centre for Non-formal and Vocational Education (another department of Sona College) Steel Authority of India (Salem Steel Plant) Women Development Corporation (Tamil Nadu State Department) Tamil Nadu Government (World Bank Project, Poverty Reduction Scheme) 	Training consultancy for customised 35-day 'Sewing Machine Operator Training' for the Garment Industry	 4 MOUs signed 7 programmes organised 377 rural women trained 184 employed in 6-7 garment units in Salem, on an average salary of Rs. 2,500/month

S. No.	Collaboration with	Purpose of Collaboration	Outcomes
2	Researchers of other colleges (VMKVC, PSG, KCT, KIT, KSR, SSM, etc)	Research Publications	Seven joint publications
3	 Elda Tex Mills, Salem Sona Vana Textiles, Salem Thiagarajar Polytechnic College, Salem 	 R-and-D Project R-and-D Project R-and-D Project 	Project CompletedOngoing ProjectOngoing Project

12. If research is a significant activity, what are the thrust areas of the department

- Clothing Comfort
- Textile Finishing
- Garment Engineering

13. Details of the ongoing projects and projects completed during the last five years

• Clothing Comfort : Ongoing projects – 3: Completed – 1

• Textile Finishing : Ongoing projects – 3; Completed – 1

• Garment Engineering: Ongoing projects – 3; Completed – 1

14. Publications of the faculty, for the past five years. Details regarding citation index and impact factor

Journal publications: 23; Conference publications: 20; Total – 43

Journal publications include one journal with Impact Factor of 0.215.

15. Participation of the department in the extension activities of the college

- At least four continuing education courses are organised every year.
- Department regularly takes up at least two industrial training consultancy projects and concurrently contributes to rural development.

16. Method of continuous student assessment

- One-hour test per course on Mondays and Wednesdays; Papers evaluated by Friday; Retest for absentees and below–par students on Saturday afternoons; Weekly test in Maths courses – every Friday, one hour
- Three weekly tests per course per semester
- University pattern model examinations for all theory and lab courses
- Assignments and Motivated Study Projects, at least two per course per semester
- Internal marks: 50% marks; Anna University exams: 50% marks
- Under autonomous system (2010 onwards) internal: external marks 25: 75

17. Placement record of the past students and the contribution of the department to the student placements

- The FT department organises all of its placement activities independently of the college placement cell.
- A pre-scheduled placement training plan is implemented at the departmental level every year.

 The department invites industry experts to train students on factory production techniques through a 10-day programme every year to enhance placement performance.

• 100% placement for the two years, 2009 and 2010

 Average monthly salary of placed students has gone up from Rs 8,000/- in 2009 to nearly Rs 12000/- in 2010.

18. Significant achievements of the department, faculty or students during the past five years

a) University Results:

 The Fashion Technology Department of Sona College stands first in academic performance among the affiliated colleges under AU-Chennai offering FT programme.

b) Placement: As stated above under Point 17.

c) Student Projects

- Two student teams secured the second prize (Rs. 50000/-) and a consolation prize (Rs. 10000/-) in 'TechNow 2010', a state-level project work presentation contest at Anna University, Chennai among over 100 participating teams.
- Two patents have been filed, one in each of the areas of spinning and weaving, with faculty guides.

d) University Ranks

• 2005-2009 Batch: Three university ranks 1st, 3rd and 6th of only six ranks announced by the university

• 2006-2010 Batch: Five university ranks 1st, 2nd, 3rd, 6th and 7th. The department bagged five of the seven ranks announced by the university.

e) Student Co-curricular /Extra-curricular Activities

- Two teams of FT students won the overall championship prize at intercollege technical-events competitions, one held at Anna University,
 Chennai and the other at Sri Krishna Engineering College, Chennai.
- The FT students have won many prizes in unique sports like swimming and fencing, besides the regular sports events

f) Strategic Planning

 The FT Department has been implementing well-documented strategic plans for the periods 2007-2009 and 2009-2012.

19. Involvement of students in academic/co-curricular and other activities of the department

(Please provide numbers of students, for the students currently with us)

Students participating in academic activities

- Symposia ?, Guest Lectures ?, Workshops ?, In-plant Training ?,
 Industrial Visits ?, Placement Training ?, etc
 Student participating in <u>co-curricular activities</u>
- Intra-college competitions: Paper Presentation ?; Poster Presentation ?;
 Technical Quiz ?; Fashion Illustration ?; FT Students Magazine ? etc

- Inter-college competitions: Paper Presentation ?; Poster Presentation ?;
 Technical Quiz ?; Fashion Illustration ? etc
 Student participating in <u>extra-curricular activities</u>
- Sports and Games ?; Yoga -?; Cultural Activities ?, etc

20. Innovations and best practices initiated/adopted by the departments during the last five years

- Strategic planning and implementation
- Credit Point System for student soft skills development
- Exclusive Book for Faculty Advisor Counselling Record
- Arrears Clearance Plans
- Institution and Practice of Quality Codes (each staff has a QC booklet)
- Periodic motivational handouts for staff and students
- Two-week and two-month student feedback on teaching-learning process
- Regular workshops for student soft-skills development
- Identification of student and faculty learning styles
- Self-evaluation of faculty using a special format
- Departmental motivational awards for commendable student academic performance and best outgoing students
- Environmental-friendly principles in practise in the department
- Multiple-activity Outreach Centre (Sona-REACH), etc.

21. Development and expansion plans of the department for the next 5 years

- The school's UG programme will go in for **NBA-accreditation** (2010)
- An independent block with well-equipped laboratories and self-sufficient facilities, including Conference Room, Seminar Hall,
 Learning Resources Centre (LRC), Design-Production-cum-Display
 Centre, R-and-D Centre, Placement Training Centre, Student and
 Staff Welfare Centre, etc (2011).
- An international conference in 2012-2013
- Introduction of an MTech programme in 2012-2013
- Establishment of an Industrial Training Centre (2012-2013)
- Enhanced research activities and quality publications (2010-2015)
- Enhancement of interaction with industry (2010-2015)
- Enhancement of continuing education courses (2010-2015)

22. Any other highlights

- The department is recognised as a research centre for PhD by Anna University of Technology - Coimbatore.
- The HOD of the FT Department is an experienced HR Trainer and is involved in several faculty and student training programmes at the college and in AICTE SDPs.

C. Evaluative Report of the Department

Department of General Engineering

(SCIENCE, MATHEMATICS & HUMANITIES AND LANGUAGES)

The Self-evaluation of every department /submit may be provided in about three pages, avoiding the repetition of data already in the profile to the extent possible. While the profile may provide quantitative data, this part of the report may be more evaluative, using the quantitative data only to substantiate the claims, whenever necessary.

1. Faculty profile, adequacy and competency of faculty

- 57 faculty: Professors 6; Assistant Professors 13; Senior Lecturers 13;
 Lecturers 25 Faculty qualifications: Ph.D 10; Ph.D (Pursing) 20;
 Masters Degree 47
- Faculty strength is adequate as the teacher: student ratio is 57:892

2. Student profile according to programmes of study, gender, region etc.

- Total student strength 892 (first year only)
- Male student: Female student ratio is 490:402
- Tamilnadu 819 students; other states- 3 students; Foreign 70 students.

3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes

2005-2006: No changes made

2006-2007 – No changes made

2007-2008 – Anna University of Technology, Coimbatore has signed an MoU with Ebek and the syllabus has been changed into skill oriented one encompassing all the 4 language skills: Listening, Reading, Speaking and Writing.

2009-2010 – Regulations 2008 of Anna University of Technology, Coimbatore is followed.

2010-2011-Autonomous Curriculum is followed.

4. Trend in the success rate and drop out rate of students during the last five years

- Academic results: 2005-2006 (I year) 75.08% (I semester), 80.60%
 (II semester)
- Academic results: 2006-2007 66.62% (non-semester)
- Academic results: 2007-2008 87.02 (I semester), 82.21% (II semester)
- Academic results: 2008-2009 85.66% (I semester), 82.21% (II semester)
- Academic results: 2009-2010 78.2% (I semester), 77.0% (II semester)

5. Learning resources of the department like library, computers, laboratories and other such resources

Physics and Chemistry Laboratory- 49 Equipment

English Language Lab with 75 Lenovo computers, Window 2008, Video Head Projector and one Panasonic VCR

Total No of Library Books- 878, Total no.of Computers in departments- 35 Internet Connections – 35, VHP-1, OHP - 3, Computer Laboratory – 150 computers, Photocopy Machine – 1

6. Enhancement of the learning resources during the past five years

- Using OHP, VHP
- Addition of more volumes, text books, reference books, CDs,
 Journals and magazines in both college and department Library.
- Educational Software Globarena
- Purchase of latest lab equipment, Software in all department lab.
- Addition of more computers with internet facilities for NRI students
- Laptop and Calculator are provided to the students

7. Modern teaching methods in practice other than the lecture method

- The modern teaching methods currently prevalent are Seminar,
 Group Discussion, Quiz, Team Teaching, and Demonstration.
- Use of audio visual aids

8. Participation of teachers in academic and personal counseling of the students

- Special Coaching for vocational group, Tamil medium, and low cut off students
- Counseling for the Students by faculty advisors.
- Conducting Personality Development programme (3programmes)
 and Orientation Programme (Phase I,II & III) for students
- 'Improve your English', classes for Tamil Medium Students

9. Details of faculty development programmes and teachers who benefited during the past five years

Over the last five years (2005-2010), the faculty members benefitted from different development programmes are:

- National Conferences 30
- International Conferences- 40
- Seminars 20
- Workshops- 30
- Pedagogical Training Programme- 20

10. Participation of teachers in academic activities other than teaching and research

- Involved as Class Counsellors
- Arranging class committee meetings
- Coordinating Club Activities like Science Club, Aptitude & IQ
 Club, English Development Club
- Coordinating induction programmes, Seminars, Guest Lectures etc.
- Master of Ceremony
- Coordinating weekly test for I Year B.E/B.Tech students
- Coordinating Bridge Course for I year B.E/B.Tech students and lateral entry students
- Arranging various types of scholarship for the Students
- Compiling / authoring course material for most of the theory courses assigned

- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library)
- As resource persons for department's continuing education courses
- As Coordinators for placement training
- As guest lecturers/resource persons invited by other colleges
- As trainers for faculty or student development (department and college level)

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

- Our college has signed an MOU with British Council. Our college is also a nodal centre for Business English Certificate (BEC) offered by Cambridge University.
- Our College is identified as the Regional Field Unit of National
 Testing Service by Central Institute of Indian Languages (CIIL,
 Ministry of HRD, Government of India), Mysore.
- Chemistry wing has collaboration with Varalakshmi Starch Industries, Salem, SAGOSERVE, Salem, Tamilnadu Starch & Sago Manufactures Association, Salem, Central Tuber Crops Research Institute, Trivandrum, Kerala, Department of Microbial Technology, Madurai Kamaraj University, Department of Chemistry, Anna University, Department of Chemistry, Annamalai University, Anna University (for PhD programmes)
- Physics wing has Collaboration with NARL, Calcutta University,
 Calcutta, National Data Center, India Meteorological Department,
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Pune., Indian Institute of Tropical Meteorology, Pune,. Department of Electronics and communication, Allahabad University, Usikov Institute of Radio Physics, Ukraine, Cyclone Detection Radar Station, Machilipatnam, Nara Institute of Technology, JAPAN Doshisha University, Kyoto, JAPAN, IISc., Bangalore

12 If research is a significant activity, what are the thrust areas of the department

- Sonastarch R& D consultancy laboratory
- Centre For Study On Rain Fall And Radio Wave Propagation
- Centre of Photonics and Nanotechnology Laboratory
- Sona Flair (Foreign Language Instruction and Research Centre)

13 Details of the ongoing projects and projects completed during the last five years

- Ongoing Project -15
- Tech Teach An Educational Broadcasting Software & Bio-ethanol from Tapioca starch and solid waste: Completed Project – 2

14 Publications of the faculty for the past five years. Details regarding citation index and impact factor

Journal Publications: 53; Conference Publications: 79

Impact Factor : 2.53

15. Participation of the department in the extension activities of the college.

Admission Work

- Consultancy Work in R & D
- ISO Activities
- Club Activities like Science Club, Aptitude & IQ Club, English
 Development Club etc.,
- Dept Library
- Coordinator for induction programme. Seminar, conference, FDP, symposium.
- Master of ceremony
- PRO in charge
- Anna University Internal Audit Team
- Coordinating weekly test for I Year B.E/B.Tech students
- Coordinator to Bridge Course for I year B.E/B.Tech
- To arrange various type scholarship for the Students

Continuing Education Programmes

- Preparatory Course & Bridge Course
- Business English Certificate (BEC) Course
- International English Language Testing Systems (IELTS)
- Improve your English
- Advanced Level English for Medical Transcription
- Foreign Languages
- 1. German Language course
- 2. French Language course

16. Method of continuous student assessment

- Three Weekly Tests per course on Mondays and Tuesdays. Papers evaluated by Thursday.
- University pattern model examinations for all theory and practical papers

17. Placement record of the past students and the contribution of the department to the student placements

Conducting Placement Test, GD, Mock Interview and Oral Presentation for the pre-final year and final year students.

18. Significant achievements of the department or faculty during the past five years

- The recognition permits the recognized supervisors of our department (Dr. K. Karunakaran, & Dr. T. Maruthavan) to function as supervisors for the candidates desirous of registering for research programmes under Anna University.
 - Dr. K. Karunakaran, and Dr. T. Maruthavanan delivered special lectures in the '6-week Technology based entrepreneurship development programme on Value added products from tapioca' conducted by ITCOT sponsored by Department of Science and Technology, Govt. of India.

- Dr. Rajasri sen Jaiswal availed visiting fellowship of UGC at S.K.
 Mitra Centre for Research in Space Environment, Calcutta
 University, and Calcutta.
- ISTE sponsored one day seminar on "Aerosols and environmental pollution" on 30th August 2004.
- Faculty Development Programme on "Material Science"
 Sponsored by Anna University organized by Sona College of Technology at Salem on January 3rd to 8th 2005.
- Orientation Programme for PG teacher on "+2 Practical Physics" on 23rd & 24th September 2005.
- Faculty Development Programme on "Engineering Chemistry"
 Sponsored by Anna University on June 26th-July 1st, 2006 at Sona College of Technology, Salem.
- 'The 3rd International Congress on English Grammar' (ICEG 2006) was organised by the Department of Humanities and Languages. Around 310 delegates from various states of India and across the globe participated in the Congress and 210 papers were presented. Resource Persons-Prof. Ramdas Akela, Prof. Yamuna Kachru, University of Illinois, Urbana, USA,Prof. Priya Hosali, CIEFL, Hyderabad,Prof. P. Ramanujam, Andhra Loyola College, Vijayawada,Prof. Amritavalli, CIEFL, Hyderabad,Prof. V. Prakasam, CIEFL, Hyderabad,Prof. Braj. B.Kachru, University of Illinois, Urbana, USA,Prof. Bill Greaves, York University, Canada,Prof. Christian M.I.M. Matthiessen, Macquarie University, Australia.

- Prof. Paul Tench, Cardiff University, UK. Grammar and
 Communication Skills' was organised by the Department of
 Humanities and Languages. Resource Person-Prof. Paul Tench,
 Cardiff University, UK.
- "Sona State Level Science Brilliance (S3B) Test" Conducted on January 06th 2007 at Sona College of Technology. Nearly 200 schools (1000 students) participated in this test.
- First International Symposium on "Study of rainfall rate and radio wave propagation (ISRR'07)" sponsored by DST, CSIR, & TNSCST on January 29th 30th, 2007 at Sona College of Technology.
- Ignite India Initiative(3I) a motivational programme, was conducted on 28th March 2009 for I Year BE/B.Tech students (nearly **750** students)
- SonaStarch R&D centre generated revenue of amount Rs.85 Lakhs
 through testing and consultancy services in the field of applied
 chemistry
- 'A State Level Orientation Programme on Computer Aided English

 Language Lab' was organized by the Department of Humanities and

 Languages for the Government School Teachers.
- 9 students have scored Top Rank among 500 BEC participants
 across the country in Business English Certificate course conducted
 by the University of Cambridge. One among them was selected for
 the final round.
- Sona Rhythms, a Music Show, was organized by the Soft Skills
 Workshop participants on 20th July 2008 under the Infosys Campus
 Connect Programme. 6000 & above public participated in the

- programme. The Infosys Campus Connect Team has certified the programme as one of the **Best Students Projects**.
- 1 student participated in the "Talk your way to Japan" speech contest.
- 15 batches of Business English Certificate (BEC) course have been conducted and 498 students and 102 staff members have been trained for the certification by the department
- The Department has promoted Mathematics so successfully that a large fraction of its results are above 90%. The Department has conducted a Mathematical Exhibition 2010 to kindle the interest of the students in Mathematical Sciences.

19. Involvement of students in academic/co-curricular and other activities of the department.

- Involvement of students in club activities like Science club,
 Aptitude &IQ club, English Development Club etc.
 - Organizing 'SONATA' a Cultural Festival under Fine Arts Club activities

20. Innovations and best practices initiated/adopted by the departments during the last five years.

- Using video Clipping from English movies to develop the Spoken English
- Conducting Oral Presentation, Role Play
- Guest lecture on Interpersonal Skills
- Conducting Induction Programmes

21. Development and expansion plans of the department for the next 5 years

- To achieve an overall pass percentage of 88%.
- To achieve 96% pass in each theory subject and 100% pass in every practical subject.
- To conduct a series of Motivational / Orientation programmes for the first year B.E/B.Tech students.
- To organize minimum 5 continuing education programmes every year.
- To ensure publication of minimum five research papers in National/International conferences or two papers in journal.
- To obtain minimum two sponsored project from industries/organizations.
- To sign an MOU with other academic bodies.
- To strengthen R & D centres by incubating the ideas.
- To depute the students to reputed institutions and industries for summer internship
- To conduct different club activities for students and faculty
- To Coordinate with AICTE for getting funded projects
- To conduct Guest Lectures on Ethics and Human Values
- To conduct Communication Skills classes for the B.E / B.Tech Students.
- To offer Japanese Language Course.

22. Any other highlights

The department of Science (Physics & Chemistry), Humanities and Languages and Mathematics is recognized as a research centre for Ph.D by Anna University of Technology, Coimbatore. The recognition permits the recognized supervisors of our departments (Dr. K. Karunakaran, Dr. T. Maruthavan, Dr. Rajasrisenjaiswal, Dr.S.Saravanan, Dr.M.Renuga and Dr.Ponnuswamy) to function as supervisors for the candidates desirous of registering for research programmes under Anna University.

The HOD of English department has qualified Teaching Knowledge Test offered by Cambridge University in all the three modules **TKT**Module 1, (Language and back ground to Language Learning and Teaching) Module 2 (Lesson planning and use of resources for language teaching) Module 3 (Managing the teaching and learning process) The Department of Mathematics offers a complete sustainable training to the various disciplines of Engineering and Technology students at the graduate and post graduate levels. The Department has proven to be valuable by imparting quantitative aptitude training classes for those students going on to campus recruitment

Department of Science started a new centre "Nanoscience Centre for Optoelectronics and Energy devices (Nano-COED)" for synthesizing various types of nanomaterials to fabricate future energy devices such as solar cells and light emitting diodes.

Centre for Photonics and Nanotechnology (PAN) developed the centre to International Standard for Research and Development in Sona College of Technology. The centre has collaborative research with International researchers in the field of, Quantum dots, MEMS, Nonmaterial, Solar Technology, Crystal growth for NLO crystals, OLED and to fabricate semiconductor Micro-tubes, Micro-plates, Micro-mirrors by strain driven self assembling technique for monolithic integration of optical devices and sensors for displays and optical switching and to fabricate Quantum Dot based/Nanoparticles based Solar Cells. Sonastarch developed an economically viable green technology for the extraction of bio-fuel from tapioca tubers/tapioca starch. Centre for study on Rainfall and Radio wave Propagation CRRP has been established in order to create a common platform where researchers of India and abroad will work together in the focused area of rainfall and radio wave propagation, share their knowledge in order to find answers to the unresolved issues in the field. The Centre concentrates on the dynamics of rainfall and associated parameters; natural hazards; the effect of rainfall on radiowave propagation

C.Evaluative Report of the Department

Department of Master of Business Administration

1. Faculty profile, adequacy and competency of faculty

• 23 Full Time faculty: Director – 1; Professors – 2; Assistant Professors –

7; Senior Lecturers – 2; Lecturers – 11

Faculty qualifications: PhD – 6; Masters Degree – 17

- Faculty strength is adequate and the teacher: student ratio is 1:12
- The faculty are competent teachers, trained formally in pedagogy, and consistently produce 100% or nearly 100% results in the courses they teach. Faculty are involved in consultancy, training and research.

2. Student profile according to programmes of study, gender, region, etc

- Two year MBA Full Time programme is offered
- Doctoral Programme (Ph.D Part time) is offered
- Total student strength 295 students (first year to final year)
- 9 research scholars have been registered for Ph.D
- Male student: Female student ratio is about 1.12:1 (156: 139)
- Total current student strength (excluding first year): 127

Tamilnadu – 115 students; Kerala – 1; AndhraPradesh – 1

Bihar -1; Foreign -9

3. Changes made in the courses or programmes during the past five years and the contribution of the faculty to those changes

Each department may provide information as follows:

2005-2006: Regulations 2004 of AU-Chennai

2006-2007: Regulations 2004 of AU-Chennai – No changes made

2007-2008: Regulations 2007 of AUT-Coimbatore

2008-2009: Regulations 2007 of AUT- Coimbatore

2009-2010: Regulations 2009 of AUT – Coimbatore

- 4. Trend in the success rate and drop out rate of students during the last five years
 - 10 batches have been graduated
 - Academic Results:
 - o 2005-2007 batch 80.00% Pass
 - o 2006-2008 batch 96.09% Pass
 - o 2007-2009 batch 97.41% Pass
 - o 2008-2010 batch 98.35% Pass
 - The drop out rate is negligible.
- 5. Learning resources of the department like library, computers, laboratories and other such resources
 - MBA department has a separate Library and resources available are
 - No. of Books 11847 + 500 books in MBA Director's Cabin
 - No. of Titles 4644;
 - Journal Subscribed (National & International) 85 nos.
 - Management related CDs 284 no.s
 - Online Databases available in our Library

- IEL Online, ASME Digital, ACM Digital Library, Prowess
 Database, NPTL course
- Television with DVD Player
- Computer Laboratory: 101 computers with Internet connectivity.
- Since 2008 WIFI Connection is available in the department.
- 29 Laptops; Printer Dot Matrix 4 nos.; LaserJet 4nos are available in the department.
- Teaching aids: 7 VHPs and 6 computer systems for classroom session.

6. Enhancement of the learning resources during the past five years.

• There has been an increase in the number of learning resources in the past five years, from 5269 books in 2006 to 11847 in 2010.

7. Modern teaching methods in practice other than the lecture method

- The modern teaching methods currently prevalent are
 - Case Analysis
 - Role Play
 - Factory Visits
 - Field Visits
 - Co-operative Learning
 - Management Games
 - Activity / Action Based Learning
 - Video Documentaries

8. Participation of teachers in academic and personal counselling of students

- The students are divided into groups of around 10 each and assigned to the faculty such that every faculty acts as a 'Faculty Advisor'(FAs) for a specific group of students.
- There is a counselling hour every week, such that every student is counselled once a fortnight on academic or personal matters.
- The FAs maintain all counselling records in files.

Details of faculty development programmes and teachers who benefited during the past five years

Over the last five years (2005-2010), the total number of faculty who have benefitted from different development programmes are as listed below:

- National Conferences 10
- International Conferences 14
- Technical Seminars 22
- Workshops 29
- Pedagogical Training 13

10. Participation of teachers in academic activities other than teaching and research

 Strategic planning and implementation – every faculty is specialising in a thrust area for thrust areas identified for departmental development / faculty development.

- Involved as Class Counsellors (to regularly liaise with and keep day-to-day records of a designated class of students) and as Faculty Advisors (for counselling of an assigned group of students)
- Compiling / authoring course material including cases for most of the theory courses assigned.
- Organising industrial visits for students and accompanying them during visits
- Organising conferences, seminars, guest lectures, student symposia, SDPs, student internships, etc
- Involved as Coordinator/Joint Coordinator for departmental Learning Resources Centre (Library)
- As resource persons for department's continuing education courses
- As Coordinators for placement training and organising on-site or off-site interviews for student placement
- Visiting industry periodically to enhance industry-academia interaction
- As guest lecturers/resource persons invited by other colleges
- As trainers for faculty or student development (department and college level)

11. Collaborations with other departments and institutions at the national and international level and their outcome during the past five years

S. No.	Collaboration with	Purpose of Collaboration
1	Green Land Farm, Salem	Innovative project – Design and
		Fabrication of SOKA machine
2	KMC Constructions Ltd,	Provide Training & Consultancy for
	Hyderabad	KMC.

S. No.	Collaboration with	Purpose of Collaboration
3	National Innovation	Providing Innovative projects for
	Foundation, Ahmedabad	Students
4	Researchers of other colleges	
	(KPR, Alliance B School,	Publish research articles in National
	AMS, Gobi Arts, Periyar	and International Journals.
	University)	
5	Royal Government of Bhutan	Offered Diploma Courses in
		Management
6	Assumption University of	Faculty and Student Exchange
	Thailand, Bangkok	• Research

12. If research is a significant activity, what are the thrust areas of the department

- Rural Development UGC's Special Assistance Programme Proposal submitted.
- Human Resources
- Entrepreneurial Development

13. Details of the ongoing projects and projects completed during the last five years

Ongoing Projects

Short Term courses based on Modular Employable Skills (MES) in Retail
 Sector in collaboration with Directorate General of Employement and
 Training, Ministry of Labour and Employment, Government of India.

Projects Completed

• Prem Textiles International, Karur – to implement customized ERP based

on BPR, Development of Admin Systems

• Godrej Home Appliances Division - Training programme for Sales

personnel.

• Royal Government of Bhutan - Training programs under GOI project for

HRD of private Sector (Diploma in Marketing Management and Strategic

Leadership for Schools in Changing Environment)

• KMC Constructions Ltd, Hyderabad – Training & Consultancy for KMC

constructions

• AKR Parcel Services, Salem - to provide consultancy support to AKR

(Productivity of HR inorder to attain higher and faster growth)

• Southern India Mills Association (SIMA)

• Vee Technologies Pvt ltd., - Conduct promotion test for team leaders.

• One Patent Filed - Design and Development of MOTIF(BUTTA)

Construction Mechanism for Handloom project under the guidance of

Ms. S.P. Thenmozhi and Mr. C. Prakash.

14. Publications of the faculty, for the past five years. Details regarding

citation index and impact factor

No. of Book Publication: International: 1 National: 5

No. of publication in National and International Journal: 85

435

15. Participation of the department in the extension activities of the college

- At least four continuing education courses are organised every year.
- Department regularly takes up at least two industrial training and consultancy projects and concurrently contributes to rural development.

16. Method of Continuous Student Assessment

- Two Internal Assessment Test per semester; Retest for absentees and failed students.
- University Pattern Model examinations for all theory and lab courses.
- Assignments at least one per course per semester.
- For II yrs MBA students, Internal marks: 50% marks; Anna University exams: 50% marks
- For I yr MBA students, Under Autonomous System: Internal 60 marks
 External 40 marks

17. Placement record of the past students and the contribution of the department to the student placements

- Department of Management Studies organises its placement activities independently.
- A pre-scheduled placement training is carried out every year
- Industry experts are invited to deliver Guest Lectures.
- 83% placement for the year 2008-2009 and 71% placement for the year 2009-2010
- Average salary package is Rs. 2.25 lakhs per annum

18. Significant achievements of the department, faculty or students during the past five years

a) University Ranks

2005-2007 – A. Mythili and Swathi Elangovan has secured 41st and 46th
 Rank in Anna University Examination.

b) Student Association Activities

- Inaugurated many Club activities in various specialisation like HR,
 Marketing, Production etc.
- Cyber Journey of Sona e-Mag, where its main objectives is to disseminate new knowledge in the field of management to the corporate and academia in a short and simple manner.

c) Student Driven Activities

- Dhriti (Determined to Excel) State Level Management Fest organised by our students.
- B3 (Business Brain Busters) National Level Management Quiz.

d) Student Projects:

Research project done by II year MBA students under the guidance of Ms.

S.P. Thenmozhi, Assistant Professor for National Innovation Foundation,

Ahmedabad India during March 2009

- Feasibility study of Reversible Reduction for Marine Inboard Engine
- A Market Study on Ceiling cooler in the District of Salem, Erode and Namakkal

A Market Study on Sugarcane bud chipper in the District of Salem,
 Erode and Namakkal.

e) Student Co-curricular /Extra-curricular Activities

- MBA students won the overall championship prize in the National level and State level Inter-College Management Meet.
- Besides the regular sports events, our students have participated in various sports events like Basket ball; Power lifting, etc.

f) Training and Development

 For the development of industrial executives and the faculty, Training and Development centre organised 30 Management Development Programmes, 6 workshops, 6 Faculty Development programmes, 3 seminars and 1 Conference

g) Consultancy

• Training and Consultancy for KMC Constructions Ltd, Hyderabad (Revenue Generated:48.58 lakhs)

h) Journal Publication

 Global Management Review Journal launched in the year November 2006.

i) Social Responsibility

 Manage Mentor – more than 30 Live programmes telecasted by our faculty members with the aim to create Management Awareness among the Public

19. Involvement of students in academic/co-curricular and other activities of the department

(Please provide numbers of students, for the students currently with us)

All the Students are participating in <u>academic activities like</u> Symposium,
Guest Lectures, Workshops, In-plant Training, Industrial Visits, Placement
Training etc

Student participating in co-curricular activities

Intra-college competitions: Best Manager: 3; Paper Presentation: 3,
 Business Quiz: 3, HR Event – 2; IT Event: 1; Business Plan: 1; Finance
 Event: 2;

Student participating in extra-curricular activities

• Sports and Games – 3

20. Innovations and best practices initiated/adopted by the departments during the last five years

- Case Study Method
- Short term Corporate Certified Programmes
- Student driven events and Student placement activities
- Students involvement in institutional activities/operations
- Institution and Practice of Quality Codes (each staff has a QC booklet)
- Periodic motivational handouts for staff and students
- Two-week and two-month student feedback on teaching-learning process
- Regular workshops for student soft-skills development

- Identification of student and faculty learning styles
- Self-evaluation of faculty using a special format

21. Development and expansion plans of the department for the next 5 years

- An independent block with well-equipped laboratories and self-sufficient facilities, including Conference Room, Seminar Hall, Learning Resources Centre (LRC), Design-Production-cum-Display Centre, Rand-D Centre, Placement Training Centre, Student and Staff Welfare Centre, etc (2011).
- Every year conduct a National and International conference
- Enhanced research activities and quality publications
- Launch series of MDPs and FDPs
- Enhancement of interaction with industry (2010-2015)
- Enhancement of continuing education courses (2010-2015)

22. Any other highlights

- Director has delivered over 75 MDPs, and taken up over 40 consulting projects with MNCs and national companies.
- The department is recognised as a research centre for PhD by Anna University of Technology - Coimbatore.
- Director and other faculty members are experienced Trainers and have involved in several faculty and student training programmes at the college and in AICTE Seminars.

C.Evaluative Report of the Department

Department of Master of Computer Applications

1. Faculty profile, adequacy and competency of faculty

Faculty	D : 1		DI D	Ph.d	D.C.A
Details	Required	Available	Ph.D	(pursuing)	MCA
Teaching	24+1	24+1			
Faculty	Director	Director	3	13	9

- Director 1, Professors 3, Assistant Professors 5, Lecturers –
 16
- Faculty strength is adequate for the student ration as 1:15
- Faculties are competent as they are trained by various training programmes

2. Student profile according to programmes of study, gender, region etc

	Gender]				
MCA	Boys	Girls	TamilNadu	Other State	Foreign	Total	
I Year	69	49	118	-	-	118	
II Year	65	55	120	-	2	120	
III Year	62	54	116	-	-	116	

Changes made in the courses or programmes during the past five years and the contribution of faculty to those changes

- 2002 2005: Regulations of AU-Chennai (No Changes Made)
- 2003 2006: Regulations of AU-Chennai (No Changes Made)
- 2004 2007: Regulations of AU-Chennai (No Changes Made)
- 2005 2008: Regulations of AU-Chennai (No Changes Made)
- 2006 2009: Regulations of AU-Chennai (No Changes Made)
- 2007 2010: Regulations of AUT-Coimbatore (Changes Made)
- 2008 2011: Regulations of AUT-Coimbatore (No Changes Made)
- 2009 2012: Regulations of AUT-Coimbatore (No Changes Made)
- 2010 2013: Autonomous Curriculum (Changes Made in second semester)

The faculties are contributed in the way of giving technical ideas and inserting new subjects on research and placement related areas.

We have Board of Studies with industry people who are highly experienced in giving suggestion on new subjects which help the students to implement the concepts on the real time applications.

4. Trends in the success rate and drop out rate of students during the last five years

Batch	No. of Students Admitted	Success Rate	Drop out Rate
2003-06	60	100%	Nil
2004-07	60	100%	Nil
2005-08	60	100%	0.02 %
2006-09	60	100%	0.02 %
2007-10	60	100 %	0.02 %

5. Learning Resources of the department like Library, Computers,

Laboratories and other resources

Library			
Item	Quantity		
Total No. of Books	8964		
No. of Titles	2566		
Journals	National:24,International:24		
Tutorial CDs, DVDs	2255		
TV with DVD player	1		
Computer with Internet	5		
E-resource	es in Library		
Online Journal	IEL,ACM		
AV resources	NPTEL resources		
Databases	CMIE Prowess		
Comp	uter Lab		
Equipment	Quantity		
No. of Labs	3		
No. of Computers	184		
Internet Connection	184		
Printer Dot Matrix	18		
Printer Laser	2		
Other	resources		
Item	Quantity		
VHP	6		
ОНР	2		
Laptop	7		
White Board	8		

6. Enhancement of learning resources during the past five years

- E-Learning
- Social Networking learning
- Separate department library with 9000 text books, journals, magazines,
 etc..

7. Modern teaching methods in practice other than the lecture method

Presentation

• Activity Based Learning

• Team Teaching

Demonstration

• Seminar

• Project Work

• Group Discussion

• Innovative Works

Quiz

• Group Activity

8. Participation of teachers in academic and personal counseling of students

- Active participant in Academic results like weekly test, model exam and intensive coaching
- Personal counseling for Body Language, Personality Development
 & Soft skills
- Counseling in matters of Personal problems
- 12 to 15 students allotted for each faculty to improve the progress of students under all status
- Two faculties will be allotted as class counselors for each class
- Two class committee meeting will be conducted for each semester
- Two to three faculty advisor meeting will be conducted for each semester

9. Details of Faculty Development Programmes and teachers who benefited during past five years

Programmes	Year						
attended by faculty	2005-06	2006-07	2007-08	2008-09	2009-10		
National	13	06	02	17	21		
Conference	13	00	02	1 /	21		
International	05	02	01	06	06		
Conference	03	02	01	00	00		
Workshops/	27	02	07	20	29		
Seminars	21	02	07	20	2)		
FDP	11	00	03	09	12		

10. Participation of teachers in academic activities other than teaching and research

- Representing at National and International Conference
- Question Paper setting
- Involved as class counselors and faculty advisors to improve the progress of students
- Organizing conferences, seminars, guest lectures, SDP, symposium
- Involved as coordinators for placement training, value add-on course training, personality development programs
- Course materials are authored by faculties for most of the theory courses and laboratory courses

- Invited as a resource persons for national symposiums, conferences,
 SDP, workshops, seminars on various reputed engineering colleges
- Faculties are invited as guest lecturers by other colleges

11. Collaboration with other department and institutions at the national and international level and their outcome during the past five years

Collaboration	Purpose of Collaboration	Outcomes
with		
	Training on computer	Trained candidates are
	fundamentals for rural area	employed as Data Entry
	women's (Duration:3-4	Operators in BPO
Tamilnadu	months)	companies
Government	Training on computer	Employees are trained
&	fundamentals, Internet for	well to work in
PHC (Primary	Primary Health Centre	computers
Health Centre)	(PHC) (Duration-20 days)	
	Training on computer	Employees are trained
	fundamentals, Internet for	well to work in
	employees of registrar office	computers

12. If research is a significant activity, what are the thrust areas of the department

- Steg Bio Metric
- Network Security
- Adhoc Networks
- Image Processing

13. Details of ongoing projects and projects completed during the last five years

Projects Completed		Projects Ongoing	
List	Nos	List	Nos
Student Information System		• Automation s/w for TPT	
Examination process control system		 Autonomous process for 	
Fees follow-up system	23	Exam cell	4
Income tax filing		• Staff Information System	
Online hall reservation		Hospital Management	
Product Development			
Integrated milk procurement			
system (IMPS)			
• Examination Process Control			
System for Polytechnic			
colleges			
Online Quiz			
SMS Based performance			
Access System			
Online university results			
retrieval process			

14. Publications of the faculty for the past five years. Details regarding citation index and impact factor

• Journal Publication: 22

• National Conference Publications: 58

• International Conference Publications: 20

• Citation Index: Artificial intelligence in medical processing, Applied soft computing (Impact factor-2.468), Knowledge based systems (Impact factor-1.406), Applied mathematics and computation (Impact factor-1.236)

• Average Impact Factor: 1.70

15. Participation of department in the extension activities of the College

- Maintenance of Management Information System for the entire college for students and staff
- Online Exam System for Placement cell

16. Method of continuous student assessment:

- Counseling
- Four Weekly test, Two Model exam, one intensive coaching per semester
- Retest for below average students will be conducted on every Saturday
- Seminar
- Group activity
- Club activity
- Motivational and Innovative works for self improvement of knowledge

17. Placement record for the past students and the contribution of the department to the student placements

Batch	Total No. of Eligible Students	No. of Students Placed	Percentage of Placement
2005-2008	56	33	56%
2006-2009	59	47	80%
2007-2010	57	37	65%

Contribution of the Department to the student Placements

- Conducting GD
- Conducting Continuous Education Programmes on Technical Subjects
- Online assessment Test
- Placement tips by External Faculties/Corporate peoples.
- Industry Interaction Programme
- Mock Interview
- Personality Development Programme

18. Significant Achievement of the department, faculty and Students during the past five years

a) University Ranks:

Category	2003-	2004- 07	2005-	2006-	2007-10
University Rank Holders	2	1	7	1	Result awaited

- **b)** University Results: consecutively secured first position in AUT-coimbatore results from 2007 onwards
- c) **Placement:** Produced 56% of placement in 2005-08 batch, 80% of placement in 2006-09 batch and 65% of placement in 2007-10 batch

Every year our students achieved overall trophy in national symposium conducted by reputed engineering colleges

19. Involvement of Students in Academic/ Co-Curricular and other activities of the department

- Participated in different events of Inter College symposium and won
 10 Overall trophies
- Vibrant Participated in different field of sports like athletic, Power –
 Lifting, High Jump, Ball-Bad mitten, 4 x 40 M Relay, and won prizes
 at zonal and Inter zonal level.

20. Innovation and best Practices initiated / adopted by the department during last five years

- R&D Supports
- Psychological, career counseling
- Flexibility in electives
- Industry based assignment
- Continuing Education Programme
- Organizing training workshop
- Classroom ambience
- Personality development Programmes
- Exclusive evaluation report for students
- Student feedback on teaching / learning process

21. Development and expansion plans of the department for the next five years

- Planning to conduct international conference
- To have more continuing education courses for students and rural area peoples

- New block with exclusive facilities (55,000 sq m)
- Steps taken to achieve 100% of placement in every batch
- Strengthening on more research activities in centre of excellence

22. Any other highlights

- The department is recognized as research centre for PhD by AUT Coimbatore
- The department is accredited by NBA
- Every year our department conducting AICTE sponsored training programmes, DIT sponsored seminar, ISTE sponsored programmes, National Conferences and National symposium
- Achieved 60% to 80% of placement in every batch and students are placed in Various IT industry and Banking Sectors
- 10% of alumnus has turned as Entrepreneurs
- Training program on "computer fundamentals" for rural women sponsored by Tamilnadu women's development corporation, Govt of Tamilnadu
- Training program on "computer fundamentals and Internet" for employees of Primary Health Centre(PHC) sponsored by Unicef and Govt of Tamilnadu
- Add-on-course functioning for all MCA students on various domain areas

D. Declaration by the Head of the Institution

I certify that that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.
This SSR is prepared by the institution after internal discussions and no part thereof has been outsourced.
I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.
Signature of the Head of the institution with seal:
Place:
Date:

Conferment of 2 (f) Status by UGC

Ph. 23236351, 23232701, 23237721 23234116, 23235733, 23232317 23236735, 23239437, 23239627

UGC Website: www.ugc.ac.in



दिल्ली मा प्रकार के दिल्ली विश्वविद्यालय अनुदान आयोग बहाद्रशाह जफर मार्ग नई दिल्ली-110 002 UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELHI-110 002

F. No. 8-95/2009 (CPP-I)

The Registrar Anna University Coimbatore

SPEEDIPOS 2009 ö SALEM

Section 2 (f) of the UGC Act, 1956-inclusion of New Sub:- List of Colleges prepared under College-

Sir. Sir.

I am directed to refer to the letter no. SCT/2 (f) &12 (B) 1520/2009 dated 02.04.2009 received from the Principal, Sona College of Technology, Thiagarajar Polytechnic Road, Salem, (T.N) on the subject cited above and to say that the name of the following College has been included in the list of Colleges prepared under Section 2 (f) of the UGC Act, 1956 under the head Non-Government Colleges teaching upto Post Graduate Degree:-

Name of the College	Year of Establishment	Remarks
Sona College of Technology, Thiagarajar Polytechnic Road, Salem – 636 005. (T.N) (On permanent affiliation)	1997	The College is not eligible to receive Central assistance under Section 12 (B) of the UGC Act, 1956 as the UGC has not yet finalised the details to provide financial assistance to "Self Financed Colleges".

The Indemnity Bond and other supporting documents submitted in respect of the above College have been accepted by the Commission.

Yours faithfully

(S.C.Chadha)

Copy to:-

3

The Principal, Sona College of Technology, Thiagarajar Polytechnic Road,

The Principal, Sona College of Technology, Thiagarajar Polytechnic Road.

Salem – 636 005, Tamil Nadu

The Secretary, Government of India, Ministry of Human Resource Development,
Department of Higher Education, Shastri Bhawan, New Delhi-110 001.

The Secretary to the Government of Tamil Nadu, Department of Higher Education,
Chennai (Tamil Nadu).

The Joint Secretary, UGC, South Eastern Regional Office, P.B. No. 152, A.P.S.F.C.
Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad-500 001 (A.P).
Publication Officer, UGC-Website, New Delhi.

Section Officer, FD-III Section, UGC, New Delhi.

All Sections, UGC, New Delhi.

Guard file.

(Sunita Gulati) Section Officer

Conferment of 12 (B) Status by UGC

Ph. 23236351, 23232701, 23237721 23234116, 23235733, 23232317 23236735, 23239437, 23239627

Extension No. 413 (CPP-1 Colleges) UGC Website: www.ugc.uc.in F. No. 8-95/2009 (CPP-I/C)

The Registrar, Anna University, Tirunelveli - 627 007, Tamil Nadu.



Senday copy to all thops विक्वविद्यालय अनुदान आयोग्रेट बहाद्रशाह जफर मार्ग मई दिल्ली-110 002 UNIVERSITY GRANTS COMMISSION BAHADURSHAH ZAFAR MARG NEW DELHI-110 002

SPEED POST



August, 2010

2 7 AUG 2010

Sub: - Declaring a College fit to receive Central Assistance under Section 12 (B) of the UGC Act.

I am directed to refer to the letter No. SCT/12(B) Application/1791/2009 dated 09.12.2009 received from the Principal, Sona College of Technology, Thiagarajar Polytechnic Road, Salem – 636 005, (Tamil Nadu) on the above subject and to say that it is noted that the following college is un-aided/self financed and permanently affiliated to Anna University. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 12 (B) of the UGC Act, 1956 under the head 'Non Government Colleges teaching upto Master's Degree':

Name of the College	Year of Establishment	Remarks
Sona College of Technology, Thiagarajar Polytechnic Road, Salem – 636 005, (Tamil Nadu),	1997	The college is already included under Section 2 (f) of the UGC Act, 1956 vide this office letter No. F. 8-95/2009 (CPP-I) dated 25.06.2009. The college is now declared fit to receive Central Government grants from other sources, even if it does not receive grants from UGC due to paucity of funds as decided by the Commission at its meeting held on 4th May, 2010.

The documents submitted in respect of the above College have been accepted by the University Grants Commission

(S.C. Chadha) Deputy Secretary

Copy to:-

- (Tamil Nadu).

 2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi 110 001.

 3. The Secretary, Higher Education Deptt., Government of Tamilnadu, Secretariat, Chennai 600 009, (Tamil Nadu).

 4. The Joint Secretary, UGC, South Eastern Regional Office (SERO), P.B. No. 152, A.P.S.F.C., Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad 500 001, (Andhra Pradesh).

 5. Publication Officer, UGC-Website, New Delhi.

 6. Section officer, FD-III Section, UGC, New Delhi.

 7. All Sections, UGC, New Delhi.

 8. Guard file.

(Sunita Gulati) Section Officer



COURSES OFFERED

BE/BTech Degrees (Full time-4 Years)

BE

Mechanical Engineering

Electrical and Electronics Engineering

Computer Science and Engineering

Electronics and Communication Engineering

Civil Engineering

BTech

Information Technology

Fashion Technology

MASTERS DEGREES

ME (Full time-2 Years)

Computer Science and Engineering

Software Engineering

Communication Systems

VLSI Design

Power Systems Engineering

Power Electronics and Drives

Product Design and Development

Engineering Design

MBA Master of Business Administration MCA Master of Computer Applications

DOCTORAL DEGREE (PhD)

MECH

EEE

ECE

CSE

FT

Physics

Chemistry

Mathematics

Management Studies

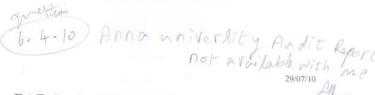
Computer Applications

English

Civil

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BAR 1 - Audit Report for Upgrade

Company Name/Code	SON	A COLLEGE OF	TECHNOLO:	GY	5161.35	
Job Description/Code:	Re-C	ertification			676535	
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Standard audit conducted	against	:	Other doc	cuments :		
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BAR2 - Audit Summary

Company :	Name/Cod	le SONA COLLEGE O	F TECHNOI	LOGY						51	61.3	5		
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4.2	Documenta	ation Requirements			X	X						-		_
5.1	Manageme	nt Commitment					1	/	1	X	Λ	+		
	Customer I					Х	X	X	X	X	X	-		-
	Quality Pol	licy							-	X	-	+		-
	Planning									X	1	-		
	Responsibi	lity, Authority & Commun	ication			X	X	Х	X	-		+		
	Manageme	nt Review f resources								X				
5.2	Human reso	resources								X				
	Infrastructu									X				
	Work Envir													
	Planning of	Product Realization				, ,	4.							
1.2	Customer-re	elated processes					X				X			
.3 I	Design and	Development			X	X	X	Х	X	-	X			
.4 P	urchasing				Λ	-	-	-	-	-	-			
.5 P	roduction a	and Service Provision				V	v	V	36					
.6	Control of N	Monitoring and Measuring	Equipments				X		X		X			
.1 1	Aeasuremer	nt, analysis and improveme	ent				X		V	-	v	-	-	1
.2 N	Aonitoring :	and Measurement					X			_	X		-	+
.3 C	Control of n	on-conforming product							X		X	-	-	+
4 A	nalysis of	Data							X		X		-	+
5 C	continual in	provement				_					X		-	+
VI B	meann Vari	tas Certification - Use of Le								X	1.6			





BAR2 - Audit Summary

Company N	Name/Code	e SONA COLLEGE OF	TECHNO	LOGY						516	51.35		-	
Job Descrip	otion/Code	Re-Certification				676	5535							
Doto(a)		22/07/2010												
Date(s):		23/07/2010		Department(s) /										
Contact(s):		Process(es)												
	1 Administration				1									
Amirthaling		2 Computer Applications												
- timethamig	aiii 5.	Khadar Nawaz GK 3 Continuing Education Centre												
Shanthi .		Chetan Bajaj .	4	Inform	nation tech	nolo	ov	+		-				
Suresh.			5	MBA		11010	57	+	-			_		
			6	Physic	cal science	2	-	+			_		_	_
									_					
					Ma	1	2	3	4	5	6	T	T	
					nRe									
T		D 11 1 -			v									
Team Lead		Ravishankar Pingalay			X	X				X	X			
Team men	nber(s):	M Saravanan			X		Х	Х	X					
Site(s):												_		
SALEM					77									
OTTODIN					X	X	X	Х	X	X	X			
	ISO 9001-	2008 - Clauses :	-					_			_			
		equirements			X	X	37	37	37	2.0	2.0	-		_
4.2	Documenta	ation Requirements			X	X	X	X		X		-		_
5.1	Manageme	ent Commitment			Α.	^	Λ	^	A	A	X	-		-
5.2	Customer I	Focus					v	Х	v	х	V	-		-
	Quality Po	licy					-	^	^	- ^	^	+-	-	+
	Planning										-	+	-	+
5.5	Responsibi	lity, Authority & Communic	cation									+		-
5.6	Manageme	nt Review									-	+		-
		of resources								-		-		+
	Human res						X	Х	X	X	Y	-		+
	Infrastructu					X	/ 1	71	^	^	Λ	-		+
	Work Envi						X	X	X	X	X	+	-	+
7.1	Planning of	Product Realization						X		X				+
7.2	Customer-r	elated processes								X				
		Development			X									+
	Purchasing					X								+
7.5 I	roduction	and Service Provision					X	X	X	X	X			+
7.6 (Control of I	Monitoring and Measuring E	Equipments				X		X		X			+
3.1 N	Measureme	nt, analysis and improvemen	nt				X	X	X		X			+
3.2 N	Monitoring	and Measurement							X		X			+
3,3	ontrol of n	non-conforming product					X		X	-	X			+
3.4 A	Analysis of	Data				X	X	X	X		X			+
3.5	continual ir	mprovement				X	X	X	X	X	X			
BV I B	Bureau Veri	itas Certification - Use of Lo	ogo											+



29/07/10

BAR3 - Audit Findings

Company Name/Code	SONA COLLEGE OF TECHNOLOGY	
:	The state of the s	5161.35
Job Description/Code:	Re-Certification	
Product Name :	ISO 9001:2008	676535

Audit Summary:

Basic inputs:

The 2nd Surveillance + Up gradation audit as per the requirements of ISO 9001:2008 standard was conducted at "M/S. SONA COLLEGE OF TECHNOLOGY " on 22/07/2010 & 23-07/2010 by 2 auditors for 4

An opening meeting with the audit team was held by the team lead to explain about audit process, audit criteria-ISO 9001:2008, audit methodology, grading of audit findings and results of audit. The scope & exclusions of the Organization remains the same. MR confirmed the audit plan sent and had conducted as

Description of the Organization:
SONA COLLEGE OF TECHNOLOGY, the sister institution of Thiagarajar Polytechnic College, has its inception in the year 1997. The college is affiliated to the Anna University and offers several UG and PG, Engineering, Technology and Management degree programmes. It also offers a whole range of Non-formal, Continuing education courses and programmes through the vibrant Sona Continuing Education Centre. Sona Starch, the chemical laboratory offers the consultancy services, inorder to analysis the samples. For eg: the water analysis to find the pH value etc. The Centre's main objective is to invigorate the local eg. the water analysis to find the pri value etc. The Centre's main objective is to invigorate the local economy by providing opportunity for enhancing the employability of the community in the region. This Institution wishes that each of its students has a strong technical base. One of the goals of this college is to emerge as a Centre of Excellence in Research and Development and Development Activities. The various departments of the college have been designed to function individually as specialist research centers. The college also organizes a number of training programmes to mould student's skill sets and to transform them into carrier oriented graduates.

SONA COLLEGE OF TECHNOLOGY is known for its excellence in instructional facilities. Bright and airy classroom, state-of-the-art-laboratories, well equipped workshops, finely stacked library, stupendous sports facilities, feel-at-home -hostel facilities are the highlights of SCT. In addition to this, the students have further advantage of taking advanced / specialized courses through various extension services available within the campus.

The Quality system manual QM & PM (Process Manual) Version no 03 dated 01/07/10 amended to meet the requirements of ISO 9001:2008 requirements, amendment record evidenced for the revision. Quality manual provides all applicable procedures and includes the scope of the QMS and 7.3 Design & Development is claimed as exclusion. Macro level Sequence of interaction of process was addressed as Macro Process Map under the section -F of QMS. The type and extent of control exercised over outsourced process has been adequately addressed in the manual QM 4.1 and

adequately addressed in the manual QN 4.1 and
1) Process Manual (PM) 6-a –Faculty and Staff recruitment, Qualification & Numbers for the
Outside/Guest faculty out sourced for covering part /whole of syllabus of MBA. Director of the
department have laid down certain norms for their selection and they are evaluated based on student

2) Process Manual PM-5-C-Assigning contract services at SONA canteen. It is based on the selection and evaluation of canteen service provider, further monitoring by the organization and effectiveness of their functioning is reports to review committee.

Scope of the organization was verified and reconfirmed during this Surveillance + Up gradation audit: "IMPARTING EDUCATION IN THE FIELDS OF ENGINEERING, TECHNOLOGY, MANAGEMENT AND



TO GRADUATE AND POST GRADUATE DEGREES AND TO SUPPORT THE INDUSTRIES BY PROVIDING CONSULTANCY, TESTING, RESEARCH AND HUMAN RESOURCES".

Exclusions Claimed: 7.3: Design and Development

Validation of Scope:

Design: 7.3 –Design and Development – The college does not conceive, Design & develop any course on its own. It is bound by the regulations (NBA & AICTE) of the university, which formulates own. It is bound by the regulations (NB curiculum and syllabi for all the 17 programmes.

Manufacture: List of courses / programmes offered are list down Sec # D of their QMS.

Supply: Not applicable.

Product Range: List of courses / programmes offered are list down Sec # D of their QMS

Achievement of Policy commitments:

The defined Quality policy is found appropriate to the purpose of the organization. Quality Policy is deployed down to the company through the Quality objectives established for each department.

Details of Process audited:

Comments on Process Performances:

Following Deployment of Quality Objective set for the Departments for the year 2009-2010. Fresh objectives are ser for the current academic year, which is to start now. Departments

Objectives

Status

2.	Civil Engineering ECE CSE IT	To achieve 65% in university exam To conduct 95% pass in each subject To achieve 95% pass in final year To achieve 90% pass in final year To achieve 90% pass in Final year	Achieved Achieved 98.3% passed 89.55% Passed Even semster - 91.28%,
		To achieve 95% in each subject	Odd Semster - 71.10% 7 Subjects Achieved
5. 6. 7.	MCA Continuing Education centre Mathematics	To achieve 90% pass in Final Year To conduct 30 continuing programmes To establish 30 centres of excellance To achieve class wise 90% pass	except one 98.31% passed Achieved Achieved. Achieved in odd
8.	Physical Science	To achieve overall pass 88%	semesters/Not achieved in Maths III.

It was observed that all the departments are monitoring the status of there College level and Department level Objectives. Root cause and corrective action initiated can be further improved. Student's feedbacks are monitored well and actions are taken on the staff deployed. These may be interfaced and improvement in objectives may be monitored on holistically. For other supporting processes measures are monitored during MRM.

Description of system conformance:

Verified the system implementation for the compliance to requirements of Standard and for continual improvement. Remarks as follows.

Requirements of standard are well documented and established.

Operating teams Involvement; commitment in system implementation and striving for excellence is noted in all the audit processes.

Internal auditor training by MR found to be reliable.

5/8





Integrated Quality & Process manual

Statuses of Quality & Department objectives are well monitored.

System strengths

Establishment & Deployment of QMS documentation is good.

Top management commitment and team effort evidenced. 3.

The audittee demonstrated a very positive approach & transparency during the audit.

4. Lesson plan and its execution is well maintained

Adherences of Calibrating the lab equipments is well complied. 5. Implementation of MIS across colleges is found effective.

Improvement observed

Achieved 4 patents and 36 centers for excellence by the college. Utilization of on line "Autolib" software in Library.

Seeking Autonomous and Deemed university status. 4.

India's top management magazines have rated well among the India's top engineering

Research work and establishment of lab in the field of Nano technology-tubes & plates. 6.

Most of the Objectives are positive in trend.

Thirty-six MOUs have been signed with external companies.

Campus Placement during last year by the companies has been increased.

Effectiveness of Internal Audit

The internal audit frequency is once in 6 months. Annual Audit plan for the years 2010 evidenced .IA conducted in June & Dec. There are 25 trained Internal auditors deployed. List of IQ auditors as on

Audit schedule and Audit Check list in line with ISO 9001:2008 are maintained for each process /department. Consolidated report of IQA conducted on 10-06-10 & 11-06-10 and observed 2 non-conformities. But there were 4 Observation noted. Consolidated report of IQA conducted on 05-01-10 & 06-01-10 and observed 13 non-conformities. NC report perused, identification of root cause, correction, corrective action taken and closure evidenced. Effectiveness of IQA for the 2 NC's evidenced. Reliability of internal audit is evidenced.

Effectiveness of Management Review

Effectiveness of Management Review
Management Review Committee (MRC) Meeting frequency is once in six months and MRM are conducted at
planned interval. Last MRC #15 was conducted on 07.07.2010 at Mech Engg Conference hall, wherein the review of all the inputs and actions initiated are discussed. Reliability of MRM process is evidenced. Class committee meeting & Governing council meeting escalated issues /areas of concerns may be discussed in MRC. Continual Improvements status may be captured in MRC.

Verification of previous non-conformity in Bureau Veritas Certification audit: There were 3 non-conformities made during last re certification audit and no non-conformity observed during last surveillance audit by Bureau Veritas Certification.

NC Ref.

Clause Ref

Details of Non conformance

Verification of Effectiveness

RSO/01

Support activities like Sona Starch and continuing education center were not audited during IQA. IQA conducted on 10th & 11th June 2010 these two departments were audited.

Repeated audit findings evidenced in EEE and CSE dept no analysis and CA taken

No NC during their last IQA under this clause requirement. RSO/03

BV Use of Logo

6/8



The results of various tests conducted in the college laboratories for the external customers are found delivered in the certificate forms consists of BV logo

MR sent a circular to this effect and also No NC during their last IQA under this clause requirement. Effectiveness correction action verified during this audit, found to be effective and there is no

Useful comparison with the previous audit findings

Actions are taken on OFI's identified during last Re certification cycle Audit.

Opportunities for improvement:

- Class committee meeting & Governing council meeting escalated issues /areas of concerns may be discussed in MRC. Continual Improvements status may be captured in MRC.
- Librarian may further monitor quality of service provided by leased line service provider.
- Usage of library by students is presently on an average 5%, action may be taken to improve usage. Results of Bridge course given for the lateral entry students may reviewed for improvement.
- Action taken on Students feedback by all the departments may be further improved. Evaluation of external faculty may be further strengthened.
- Demonstration of effectiveness of action taken by all the HOD's on objectives needs further
- Shelf life of Chemicals used in laboratory can be monitored.
- Accessibility of some of the Fire extinguishers may be revisited.
- Rubber floor mats near electrical installations at some of the places may be revisited.
- Medicines in FA boxes are not maintained properly is some places.
- Disposal of UPS batteries and E Waste can be monitored.
- Certificates issued in Continuing education can have unique number for better traceability
- Adequate lighting at the library may be studied and further light energy savings may be given

External communication:

No adverse communication reported within the system. Communications with customers and supplier related

Evaluation of compliance to legal requirement:

Verified the compliance as per list of applicable codes and standards shared in Appendix 1.

Uncertainty / obstacles that could affect the reliability of audit conclusions

Generally, the audit flow was good. The audittee and top management were very committed, involved and demonstrated well in their areas during the audit process. The audit feed backs and findings were taken up positively and taken as opportunities for improvement. No uncertainties / obstacles faced during the audit.

Unresolved diverging opinions between the audit team & audittee There is no unresolved diverging opinion between the audit team and audittee.

Usage of Logo of Bureau Veritas Certification was once again explained and reiterated during the closing

A closing meeting was conducted on 23/07/2010 by the team lead and team consolidated audit findings were communicated/shared. There are no non-conformity noted by the team and areas for improvement pertaining to departments were presented by the team lead. The response of the audittee was positive and top management/Principal assured commitment for improvements.

Scope & exclusions re confirmed and the validity of certificates to ISO 9001:2008 standards and logo usage were reiterated during the closing meeting.

Agreed follow-up actions



29/07/10

No Non-conformity recorded during this 2nd Surveillance audit \pm Up gradation and hence recommendation is made based on the system conformance noted in all the departments.

System capability
"M/S. SONA COLLEGE OF TECHNOLOGY" well demonstrates the implementation and maintenance of QMS requirements in all the Departments /Programmes audited. Considering the effective implementation, maintenance of regulatory norms and the confidence levels gauged by the audit team, the organization is recommended for continuance of Certification as per specimen certificate shown and meeting requirements of ISO 9001:2008 standards.

Auditors maintain th	eir notes as hard cop						
OBSERVATION		Details	of Findings :				
MAJOR							
MINOR							
Number of Non Cor	nformities Raised :		Major	0		Minor	
The visit report form		Audit	Canalusian .			Allhor	0
identified nonconform	nance and secondly	re corrective		action, firstly			
identified nonconform necessary to prevent	nance and secondly recurrence. The audi been identified	to examine t t was based ort external	e and preventive he underlying ca on Random samp to the organisation	action, firstly use and imple ples and there on, then all pa	ment the	ne changes nconformitie	es may
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the Pile

23.04.2010

V.K. Searil ME3/4/la

From

G. Nalla Kumarasamy Chief Auditor (803 – Sona College of Technology) Associate Professor & Head Department of Automobile Engineering KSR College of Engineering Tiruchengode

To

The Controller of Examinations, Anna University – Coimbatore, Coimbatore.

Sir,

Sub. : Submission of External Audit Report – Reg., Ref. : Lr No.351(009)/AU-CBE/COE/Audits dated 19.04.2010

Ref. : LF NO.351(009)/A0-CBE/COE/Addits dated 13.04.2010

As per your direction and guidelines, we have audited all the departments of 803 – Sona College of Technology, Salem on 23.04.2010.

Please find the External Audit Report of the same for your kind perusal and reference.

Yours faithfully,

Chief Auditor

1

Copy to:

1. Fist Copy : The COE, Anna University, Coimbatore : The Principal, 803- Sona College of Technology

3. Third Copy : The Management, Sona College of Technology
4. Fourth Copy : The Registrar, Anna University, Coimbatore

Encl: Attendance Certificate 2 No's along with the Claim Forms

EXTERNAL AUDIT REPORT

College Name

803 - SONA COLLEGE OF TECHNOLOGY, SALEM

Ref.

Instruction issued for the conduct of internal assessment

and educative evaluation by Anna University, Coimbatore.

Vide letter Lr. No.351(009)/AU-CBE/COE/Audits dated 12.04.2010

Subject

External Audit Report

Department Audited:

B.E.,/B.TECH., (ALL BRANCHES), ECE-PG, MBA, MCA

Name of the dept. chosen for detailed

B.E. MECHANICAL ENGINEERING

Date of External Audit:

23.04.2010

Audited by

G. NALLAKUMARASAMY Asso. Professor&Head/Auto

605 - KSR CE

Chief Auditor

V.K. SENTHIL RAGAVAN Asst. Professor&Head/MCA 903 – EBET GROUP OF INSTITUTIONS

Second Auditor

Signature of the Second Auditor

Signature of the Chief Auditor

EXTERNAL AUDIT REPORT

G. NALLAKUMARASAMY Asso. Professor&Head /AUTO 605- KSR CE **Chief Auditor**

V.K.SENTHIL RAGAVAN Asst. Professor &Head/ MCA 903- EBET Second Auditor

Institution :

803 - SONA COLLEGE OF TECHNOLOGY

Programme(s):

All UG & PG Programme 23.04.2010

Date of Audit :

General Observations:

- Internal Tests: i)
 - Verified all programmes and found to be satisfactory
- Assignments ii)
 - Verified all programmes and found to be satisfactory
- Maintenance of students records iii)
 - Verified and found to be satisfactory
- Counseling and guidance to students by faculty members: iv)
 - Verified all programmes and found to be satisfactory
- Lesson plans and curriculum delivery methods V)
 - Verified Lecturer Notes, OHP Sheets, Power points presentation and found to be good
- Maintenance of records by faculty members vi)
 - Verified and found to be satisfactory
 - Records are maintained perfectly
- Awareness and adherence to policy vii)
 - Well understood by the faculty in time

- Any innovative development of educational methodology / work towards evaluation, improved and effective curriculum delivery and evaluation techniques.
 - Proto type models can be developed/displayed
- List of non-conformities with university policy and unacceptable deficiency in standards.

--- NIL ---

Any specific recommendation on faculty development:

Faculty members are asked to maintain the filing system properly

Any Specific instance of excellence:

❖ Faculty Counseling record maintained by Dept. of Fashion Technology was good

Existence of Confidential audit report, if any: Ni

S. No.	Auditors	Name & Institution	Designation	Signature with Date
1	Chief Auditor	G.Nallakumarasamy 605 – KSR CE	Asso. Professor & Head Automobile	of romatel x
2	Second Auditor	V.K.Senthil Ragavan 903 – EBET	Asst. Professor & Head MCA	V.K. samily

ENCLOSURE 1

List of General Documents Produced by the Department for Audit (Put tick Mark if produced by the department, else leave as blank)

	Document Name	
1.	Semester Wise nominal Roll of Students	
2.	Faculty List in the format	
3.	Continuous record of Audits	
4.	Up-to-date Compendium / Compilation / Copy of regulations with updated entry of Amendments	
5.	Daily students Attendance Register	
6.	Summary of semester / Trimester attendance reports of last two semester / trimesters	
7.	Copy of results of last two semester (One Year) examinations including internal assessment and arrear examinations for all programmes.	
8.	Copy of internal assessment records for all programmes for all semesters / trimesters from (including) that last seen by internal auditors.	
9.	Copy of results of internal tests for all semester / trimester from	
10.	All external practical examination records	
11.	Lesson plans used by all faculty members in the department, other innovative educational techniques / aids, transparencies, power point presentations etc.	
12.	Student information system: Notices and displayed literature / instructions received from examination cell / chief superintend for dissemination	
13.	State of laboratory and workshop equipment for exams	
14.	Status of availability of assistant examiners / skilled assistants for conduct of practical examinations	
15.	Warning / Counseling register for students and record / file of letters to parents / guardians	/
16.	Academic counseling record of faculty members	
17.	Innovative work / practical project of students	
18.	Papers / Projects presented by faculty members	
19.	Feedback report from students during departmental academic meetings	
20.	Suggestion book / complaints of students / parents by letter	
21.	Any feedback report from industry etc, on students / academic matters	
22.	Audit report files of departments	
23.	Continuous record of Audits of departments	
24.	Action taken report (by departments subsequent to last internal audit)	1

Enclosure 2

2. List of Students records audited

S. No.	Name of the Student	Branch
1.	P.S.Anusuyadevi	MCA
2	P.Nancy Priya	CSE
3	N.Sivaraj	ECE
4	T.Sudha	IT
5	R.Ragu	EEE
6	V.Sivanayagi	CIVIL
7	S.Vigneswaran	FT
8	S.Pravallika	MBA
9	Sheeba Kumari	ECE-PG
10	All records of Mechanical	Engineering

Enclosure 3

3. List of Faculty records audited

S. No.	Name of the Faculty	Designation & Department
1	P. Arunkumar	Lecturer/MCA
2	N. Nithya	Lecturer/MBA
3	R. Subhashini	Lecturer/CSE
4	K.S.Yamuna	Lecturer/EEE

Enclosure 4

4. List of students Interviewed

S. No.	Name of the Student	Branch
1	R.Karthiga	MCA
2	C.S.Monisha	CSE
3	Udhaya Kumar	ECE
4	R.Prabhakaran	EEE
5	V.Sivanayagi	CIVIL
6	S.Vigneswaran	FT
7	S.Pravallika	MBA
8	Sheeba Kumari	ECE-PG

Enclosure 5

5. List of Faculty Interviewed randomly

S. No.	Name of the Staff	Designation	Branch
1	D.Rajavel	Lecturer	MCA
2	S.Namagiri	Lecturer	IT
3	R.Prabakaran	Lecturer	EEE
4	M.Srividhya	Lecturer	FT
5	A.Radhakrishnan	Lecturer	ECE-PG

Enclosure 6

6. List of Faculties called for counseling with brief details of nature of counseling conducted

- DOES NOT ARISE -

Enclosure 7

7. List of documents for the conduct of practical internal assessment

- a. Practical Exam observation Notebooks
- b. Practical Exam records
- c. Attendance and Assessment record of Faculty
- d. Lab Manual
- e. Stock Register
- f. List of Equipments
- g. List of eligible practical examiners

8. List of general observations on the following

i. Internal Tests

Internal Test note books are signed by the faculty in-charge , HOD and Dean concerned

ii. Assignments

- ✓ Assignments titles and evaluation of assignments are good and well maintained
- ✓ Detailed write up is given on latest topics and presented in the class room.

iii. Maintenance of records by students

Well maintained and updated

iv. Correction and guidance to students by faculty members

Proper guidance as and when required correction is made by the faculty members

v. Lesson plans on curriculum delivery methods

Lesson plans involve tutorial class and specific models, if required Teaching aids are utilized

vi. Maintenance of records by faculty members

Department wise internal tests, attendance percentage entry are in uniform pattern.

- vii. Awareness and Adherence to policy
 - ✓ Compendium file was available
 - ✓ Faculty counseling file was available
 - ✓ Internal auditing was conducted on 10.04.2010
 - Any innovative development of educational methodology work towards evaluation, improved and effective curriculum delivery and evaluation techniques
 - Well maintained language laboratory, common computer centre and conducive class room atmosphere, OHPs, LCD & Public address systems.
 - ii. Examination data centre in EMS
 - 1. Copy of documents made available with Dean
 - 2. Adequate visual isolation is there
 - 3. Adequate furniture is available
 - List of non-conformities with university policy and unacceptable deficiency in standards

NIL

11. Any specific recommendations on faculty development

NIL

- 12. Any specific instance of excellence
- i. Well maintained walk around facilities, labs state of the art Central library.
- 13. Confidential Audit Report if Necessary :

NIL

Prof.V.K.Senthil Ragavan

Second Auditor

Prof.G.Nallakumarasamy Chief Auditor