

SELF STUDY REPORT

EVALUATIVE REPORT OF THE

DEPARTMENTS

Submitted to

National Assessment and Accreditation Council
Bangalore

for

Cycle 2 Accreditation of

Sri Venkateswara College of Engineering

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JUNE, 2013

Part A Inputs from the Departments

Automobile Engineering

Biotechnology

Chemical Engineering

Civil Engineering

Computer Science & Engineering

Electronics & Communication Engineering

Electrical & Electronics Engineering

Information Technology

Marine Engineering

Mechanical Engineering

Computer Applications

Applied Chemistry

Applied Physics

Humanities and Social Sciences

Applied Mathematics

EVALUATIVE REPORT OF THE DEPARTMENTS

Name of the department: AUTOMOBILE ENGINEERING

1. Name of the department: Automobile Engineering
2. Year of Establishment: 1999
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)- UG- Automobile Engineering
4. Names of Interdisciplinary courses and the departments/units involved- Nil
5. Annual/ semester/choice based credit system (programme wise) - Semester based programme
6. Participation of the department in the courses offered by other departments

Nam of the course	Department
Engineering Graphics	All branches in SVCE
Engineering Practices laboratory	

7. Courses in collaboration with other universities, industries, foreign institutions, etc. -NIL
8. Details of courses/programmes discontinued (if any) with reasons NIL
9. Number of Teaching posts

	sanctioned	Filled
Professors	1	1
Associate Professors	2	2
Asst. Professors	9	9

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D students guided for the last 4 years
Dr.N.Muthukrishnan	Ph.D.,M.S., B.E.,D.M.E.,	Professor	Machinablity studies, Technological operations, Production Engineering, Jigs&fixtures & Automobile	24.5	-

			Engineering		
Dr.S.Saravanan	Ph.D.,M.M.M., M.E., B.E.,	Assoc. Professor	Bio fuels, Marketing management, Thermal Engineering, Mechanical Engineering	17	-
V.Ganesh	M.E., B.E.,	Assoc. Professor	Automobile Engineering, Mechanical Engineering	11	NA
S.Premnath	M.E., B.E.,	Asst. Professor	Automobile Engineering, Mechanical Engineering	12.5	NA
J.Dhanabal	M.E., B.Tech.,B.Sc.,	Asst. Professor	Automobile Engineering, Production Engineering,Mathematics	12	NA
S.Muniraj	M.E., B.E.,	Asst. Professor	CAD/CAM, Mechanical Engineering	14	NA
K.Paul Durai	M.E., B.E.,	Asst. Professor	Computer Integrated Manufacturing, Automobile Engineering	9.5	NA
G.Ravi	M.E., B.E.,	Asst. Professor	Automobile Engineering, Automobile Engineering	1	NA
Ramanjaneyulu Kolla	M.E., B.E.,	Asst. Professor	Automobile Engineering, Mechanical Engineering	1	NA
E.Ravindar Rao	M.E., B.E.,	Asst. Professor	Automobile Engineering, Mechanical Engineering	0.5	NA
R.Sakthivel	M.E., B.E.,	Asst. Professor	Automobile Engineering, Mechanical Engineering	0.5	NA
K.E.Kumaraguru	M.E., B.E.,	Asst. Professor	Automobile Engineering, Production Engineering	7.5	NA

11. List of senior visiting faculty-NIL
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty-NA
13. Student -Teacher Ratio (programme wise)

Total sanctioned strength (S)	No. of Faculty members required (R)				Student –Teacher Ratio
	Professor	Asso. Prof.	Asst. Prof.	Total	
180	1	2	9	12	15 : 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Category	Sanctioned	Filled
Academic support staff (technical)	4	4
Administrative staff	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG. As in Serial No. 10

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

S.No	Name of the Faculty	Funding Agency
1	Dr.N.Muthukrishnan	AICTE
2	Dr.S.Saravanan	

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received NIL

18. Research Centre /facility recognized by the University-NIL

19. Publications:

S.No	Name of the Faculty	Department	Number of Publications	Average Citation Index	SNIP [Source Normalized Impact Per Paper]	SJR [SCImage Journal Rank]	Impact Factor	h-Index
1	Dr. N.Muthukrishnan	Automobile	20					
2	Dr. Saravanan S	Automobile	23				1.3 (Average of 19 papers)	
3	Dr.Srikantha Dath, T.N	Automobile	2	-	-	-	-	-
4	Mr. C.Kannan	Automobile	4	-	-	-	1.2 (Average of two papers)	-
5	Mr. K. Bhaskar	Automobile	3	-	-	-	-	-
6	Mr. V. Ganesh	Automobile	2	-	-	-	0.6	-

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)- 54

Books with ISBN/ISSN numbers with details of publishers-

N.Muthukrishnan, Machinability studies of composite materials, Lambert academic publishing company, Germany-ISBN 13: 978-3-659-20562-0, ISBN-10: **3-659205621**

20. Areas of consultancy and income generated

Area of consultancy	Income generated
IC Engines	Rs.4. 8 lakhs

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards....

S.No	Name of the Faculty	Members
1	Dr.N.Muthukrishnan	Editorial board member in 1. International Journal of Materials, Forming and Machining 2. International Journal of Manufacturing, Materials and Mechanical engineering
2	Dr.S.Saravanan	Reviewer for following international journals • Fuel, Energy, Energy for sustainable development, International Journal of oil, Gas. Coal Technology, Journal of renewable and sustainable Energy

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme

Sl.No	Academic Year	Percentage of students who have done in-house projects
1	2009-10	100
2	2010-'11	18.9
3	2011-12	8.6
4	2012-13	32.3

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

Sl.No	Academic Year	Percentage of students who have done industry projects
1	2009-10	0
2	2010-'11	81.2
3	2011-12	91.4
4	2012-13	67.7

23. Awards/ Recognitions received by faculty and students

Students

Academics year	No. Of prizes won by students At national/international technical competitions	Category of prizes		
		1 st	2 nd	3 rd
2009-2010	2	-	1	1
2011-2012	3	2		1
2012-2013	8	1	6	1

- Best project award to Final year automobile Engineering students by M/s Tafe

every year

Faculty

Academic year	Name of the faculty	Honor/award
2009-2010	Dr.N.Muthukrishnan	Reviewer for International Journals
	K. Bhaskar	Received Best Paper Award in a National Conference
	Dr.S.Saravanan	Reviewer for International Journals
	C.Kannan	
	V.Ganesh	
2010-2011	Dr.N.Muthukrishnan	Reviewer for International Journals
	Dr.S.Saravanan	
2011-2012	Dr.N.Muthukrishnan	<ul style="list-style-type: none"> • Listed in the “Marquis who is who” in the world for the year 2012. • Recognised as a research supervisor in Anna University, Chennai • Reviewer for International Journals
	Dr.S.Saravanan	<ul style="list-style-type: none"> • Listed in the “Marquis who is who” in the world for the year 2012 • Reviewer for International Journals
2012-2013	Dr.N.Muthukrishnan	Reviewer for International Journals
	Dr.S.Saravanan	Reviewer for International Journals

24. List of eminent academicians and scientists/ visitors to the department

Academic year	Name of the academicians and scientists
2009-2010	Dr. V. GANESAN Professor Department of Mechanical Engineering IIT Madras Chennai
	Mr. V. P. Ranganatham Division Manager Simpson & Co LTD
	Dr. Palavi ram Research scholar University of Florida U.S.A
	Mr. P. Nageshwar Rao Sr. Chief Engineer TAFE LTD
	Mr. Sampath Kumar Ambattur Metal Theater
2010-2011	Dr. V. Balasubramanian, Executive Director, Simpson & Co.
	Mr. R. Murali Krishnan Associate vice president TAFE
	Mr. K. Arvind, Training Manager, South Bosch Ltd.
	Mr. P. Nageswara Rao,

	Chief Engineer, R & D Tafe.
	Mr. S. Sivasankaran, Lead Engineer – Engine performance analysis, Automotive Robotics India Ltd.
	Mr. S. Sivasankaran, Lead Engineer – Engine performance analysis, Automotive Robotics India Ltd.
	Mr. K. Sundar Executive Director Turbo Energy LTD
	Mr. S. Vivekanand, Senior Executive- Lean Implementation, MAS Linea Fashions.
	Dr. P. A. Subramani Vice president – R & D Turbo Energy LTD
	Dr. K. Sridhar Executive Director – R & D Turbo Energy LTD
	Dr. Anand Gurupatham Deputy Director – R & D Nissan LTD
2011-2012	Dr.G.NAGARAJAN Professor IC Engines Division CEG, Anna university
	Mr. R. Raman Deputy Manager PCRA
	Mr. S. Krishnan Faculty PCRA
	Mr. Vijai Anthony Senior Manager Ashok Leyland
	Dr. R. Mahadevan Director India Piston LTD
	Mr. G. Giri Business Development Manager Alalon LTD
	Mr. S. Ramachandran QMS Consultant LUCAS - TVS
	Mr. G. Mathivanan AGM Delphi – TVS
	Mr. S. Arun Division Head Ashok Leyland
	Mr. S. Shanmugam M.D Design Desk, Chennai
2012-.2013	Dr. V. GANESAN Professor Department of Mechanical Engineering IIT Madras Chennai

	Dr.G.NAGARAJAN Professor IC Engines Division CEG, Anna university
	Mr. S. Prabhu Cad Engineer Caddam Technologies Pvt. Ltd
	Mr. K. Aravind Regional Trainer – South BOSCH
	Dr. K. Jayaraman, PhD (Former registrar, Anna University) Professor of Excellence Department of Aerospace Engineering MIT Campus, Anna University Chrompet, Chennai – 600044
	Tamil selvan A senior engineer Tafe ltd

25. Seminars/ Conferences/Workshops organized & the source of funding
a)National

Academic Year	Particulars of Seminars/Workshops/ Seminars/ etc organized	Source of funding
2009-2010	REPAIR AND MAINTENANCE OF AUTOMOTIVE VEHICLES (2 & 3 WHEELERS)	DST
2010-2011	“UNDER THE ROOF OF CYLINDER HEAD” more than 200 participants	SVCE
	“Training on Fuel injection and electrical systems” by Ms BOSCH for Third year Automobile Engineering at our College	SVCE
	“Training on Fuel injection and electrical systems” by Ms BOSCH for Final year Third year Automobile Engineering at our college	SVCE
	REPAIR AND MAINTENANCE OF AUTOMOTIVE VEHICLES (2 & 3 WHEELERS)	DST
2011-2012	A three day workshop on “Fuel injections systems in Diesel engines” is arranged for a batch of 24 students of third year automobile engineering	SVCE

b)International-NIL

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled *M *F	Pass percentage
2009-2010			NIL	74.19
2010-2011			NIL	90.63
2011-2012			NIL	71.43

*M=Male F=Female

27. Diversity of Students

Name of the Course	Academic Year	% of students from the same state	% of students from other states	% of students from abroad
B.E. AUTOMOBILE ENGINEERING	2009-2010	95.2	4.8	NIL
	2010-2011	100.0	Nil	Nil
	2011-2012	94.8	5.2	NIL
	2012-2013	98.4	1.6	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Academic Year	No. of Students			
	GATE	GRE	TOEFL	IELTS
2009-2010	-	05	03	-
2010-2011	01	03	02	02
2011-2012	-	01	-	03
2012-2013	06	03	03	03

29. Student progression

Student Progression	Against % enrolled		
	2009-10	2010-11	2011-12
UG to PG	19.35	25	2.86
PG to M.Phil	NIL	NIL	NIL
PG to Ph.D	NIL	NIL	NIL
Ph.D to Post-Doctoral	NIL	NIL	NIL
Employed			
Campus Selection	01	07	13
Other than Campus recruitment	01	01	01
Entrepreneurship / Self-employment	NIL	NIL	NIL

30. Details of Infrastructural facilities

- a) Library
 - Separate room with 45 sq.m is available for the department library
- b) Internet facilities for Staff & Students
 - 49 systems with internet facility for students and 4 systems with internet facility for staff
- c) Class rooms with ICT facility
 - 100 % of the class room with ICT facility

d) Laboratories

- Our departmental laboratories contain more equipments and experiments than prescribed in the curriculum. For example Engine Testing laboratory, we have latest engine test rigs including MPFI Petrol engines and CRDI Diesel engines coupled with eddy current dynamometers. Ashok Leyland heavy duty diesel engine is fitted with AVL Pressure pickup and Angle encoder to measure combustion parameters. Such facility may be existing only in handful of academic institutions in India.

31. Number of students receiving financial assistance from college, university, government or other agencies

Academic year	Number of students receiving financial assistance from college.
2009-10	9
2010-11	8
2011-12	8
2012-13	11

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sl.No	Academic Year	No of special lectures	No of special workshops / seminar
1	2009-10	5	1
2	2010-'11	11	4
3	2011-12	10	1
4	2012-13	6	-

33. Teaching methods adopted to improve student learning

- (i) LCD Projector
- (ii) Over-head Projectors
- (iii) Smart Classroom
- (iv) Interactive multimedia

34. Participation in Institutional Social Responsibility (ISR) and Extension activities - NA

35. SWOC analysis of the department and Future plans

Strengths:

- We have very good laboratory facilities beyond the syllabus requirement (like engine testing lab and CAD lab) and to do research works, consultancy, etc.,
- Since we have a faculty member student ratio 1:15 we can closely monitor them in their

Curricular and co-curricular activities.

- We are following highly appreciated ISO system, developed by the college and certified by an external body.
- Our students were regularly getting university ranks including gold medals, right from the first batch.
- Two of our faculty are doctorate and most of our faculty members are pursuing doctoral programme in Anna University.
- Department frequently arranges guest lectures, industrial visit, In-plant training and industrial tours to our students.

Weakness:

- Since Our College is far away from the city we could not over stay to continue our activities of a day.
- Since we are an affiliated institution of Anna University, we could not make many changes in the syllabus suiting to our students' standards. Even though many of our faculty members are the members of Board of Studies, the syllabus are prepared keeping in mind the standards of other institutions in the University.
- R & D in the college is possible only to a limited extent.
- No PG programme is in place and hence the Department is not eligible to become a research centre.

Opportunities

- To become a research centre with existing facilities
- Industry institute interaction can be enhanced with automobile industries

Future plans

- To Increase in Intake of students
- To start a P.G. programme.
- To develop centre of excellence for engine reserach.
- To get research centre status for department
- To have more funded research projects

Name of the department

BIO TECHNOLOGY

1. Name of the department – Biotechnology
2. Year of Establishment – 2005 (B.Tech program – 2005 , M.Tech program – 2010)
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
 1. B.Tech Biotechnology
 2. M.Tech Biotechnology
 3. M.S. by Research
 4. Ph.D
4. Names of Interdisciplinary courses and the departments/units involved – NA-
5. Annual/ semester/choice based credit system (programme wise) –

B.Tech Biotechnology Semester based

M.Tech Biotechnology Semester based

M.S. by Research Semester based

Ph.D Annual
6. Participation of the department in the courses offered by other departments – NA-
7. Courses in collaboration with other universities, industries, foreign institutions, etc. – NA-
8. Details of courses/programmes discontinued (if any) with reasons – NA-
9. Number of Teaching posts

	sanctioned					Filled				
	2012-2013	2011-2012	2010-2011	2009-2010	2008-2009	2012-2013	2011-2012	2010-2011	2009-2010	2008-2009
Professors	2	2	2	1	1	2	2	2	1	1
Associate Professors	3	1	-	1	1	3	1	-	1	1
Asst. Professors	14	12	12	11	11	14	12	12	11	11

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.M.Sivanandham	PhD	Professor & Principal	Immunology, Immunotechnology, Fermentation Technology and Genetic Engineering	32	6
Dr.Sulochana Somasundaram	PhD	Professor & HOD	Microbiology and Molecular Biology	31	2
Dr.S.Prabhu	PhD	Associate Professor	Biochemistry	18	-
Dr.E.Nakeeran	PhD	Associate Professor	Downstream Processing	7	-
Dr.Nalinkanth V Ghone	PhD	Associate Professor	Biomedical Engineering	11	-
Ms.V.Sumitha	M.Tech	Assistant Professor	Industrial Biotechnology	9	-
Ms.S.Pandi Prabha	M.Tech	Assistant Professor	Industrial Biotechnology	6	-
Mr. Kirubanandan. Shanmugam	M.Tech	Assistant Professor	Biopharmaceutical Technology	3	-
Mr. P. K. Praveen Kumar	M.Tech	Assistant Professor	Biopharmaceutical Technology	8	-
Ms. P. Jaibiba	M.Tech	Assistant Professor	Microbial Technology	5	-
Dr. N. Karpagam	PhD	Assistant Professor	Plant Biotechnology	7	-
Dr.A.Srinivas	PhD	Assistant Professor	Plant Biotechnology	7	-
Mr. J. Hariharan	M.Tech	Assistant Professor	Genetic Engineering and biochemistry	4	-
Ms.S.Sivasankari	M.Tech	Assistant Professor	Biotechnology	1	-
Ms. R. Karthiga Rani	M.Tech	Assistant Professor	Environmental Biotechnology	2	-
Mr. N. Sathish	M.Tech	Assistant Professor	Biotechnology	3	-
Ms.S.Nagavignesh	M.Tech	Assistant Professor	Biotechnology	3	-
Ms.N.Anitha	M.Tech	Assistant Professor	Industrial Biotechnology	4	-
Ms.S.Ranjhani	M.Tech	Assistant Professor	Biotechnology		-
Ms.U.Stahya	M.Tech	Assistant Professor	Biopharmaceutical Technology	3	-
Mr.R.Manikandan	M.Tech	Assistant	Biotechnology	3	-

		Professor			
Ms..S.Padma @ Dhivya	M.Tech	Assistant Professor	Biotechnology	2	-
Ms.Anjana Anand	M.Tech	Assistant Professor	Biotechnology	0.5	-

11. List of senior visiting faculty- Nil
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty- Nil
13. Student -Teacher Ratio (programme wise)

Year	Total No of Students (II+III+IV year)	Total No of Faculty	Student -Teacher Ratio (STR)
2008-2009	171	14	12.21
2009-10	167	13	12.84
2010-11	169	12	14.08
2011-12	155	12	12.91
2012-13	151	14	10.78

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	sanctioned					Filled				
	2012-2013	2011-2012	2010-2011	2009-2010	2008-2009	2012-2013	2011-2012	2010-2011	2009-2010	2008-2009
Technical Staff	4	5	6	8	5	4	5	6	8	5
Administrative staff	1	1	1	1	-	1	1	1	1	-

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.

Name	Qualification
Dr.M.Sivanandham	PhD
Dr.Sulochana Somasundaram	PhD
Dr.S.Prabhu	PhD
Dr.E.Nakeeran	PhD
Dr.Nalinkanth V Ghone	PhD
Ms.V.Sumitha	M.Tech
Ms.S.Pandi Prabha	M.Tech
Mr. Kirubanandan. Shanmugam	M.Tech
Mr. P. K. Praveen Kumar	M.Tech
Ms. P. Jaibiba	M.Tech
Dr. N. Karpagam	PhD
Dr.A.Srinivas	PhD
Mr. J. Hariharan	M.Tech
Ms.S.Sivasankari	M.Tech
Ms. R. Karthiga Rani	M.Tech
Mr. N. Sathish	M.Tech
Ms.S.Nagavignesh	M.Tech
Ms.N.Anitha	M.Tech
Ms.S.Ranjhani	M.Tech

Ms.U.Stahya	M.Tech
Mr.R.Manikandan	M.Tech
Ms..S.Padma @ Dhivya	M.Tech
Ms.Anjana Anand	M.Tech

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

1 (National-Prof. M.Sivanandham, Upgradation of Bioprocess and Downstream Processing Lab for Mammalian Cell Culture)

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received NIL

18. Research Centre /facility recognized by the University Research Centre status recognized by Anna University of Technology, Chennai (Ref. No. RBC 01 2011)

Research centre status granted with effect from 14th June 2011-to carryout Ph.D programme (full time and part time) and MS by Research.

19. Publications:

a) Publication per faculty

Faculty name: Prof. M. Sivanandham

Number of papers published in peer reviewed journals (national / international): 48

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 35

Monographs: NIL

Chapter in Books: NIL

Books Edited : NIL

Books with ISBN/ISSN numbers with details of publishers: NIL

Citation Index :Total Number of citations 880

Number of Citations per article: 18.33

SNIP: Cumulative SNIP: 17.424

SJR: Cumulative SJR: 12.144

Impact factor : Cumulative Impact Factor: 120.683

h-index: 15

Faculty name: Dr. Sulochana Somasundaram

Number of papers published in peer reviewed journals (national / international): 13

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 13

Monographs: NIL

Chapter in Books: NIL

Books Edited: NIL

Books with ISBN/ISSN numbers with details of publishers: 01

ISBN-NO 978-3-84443-9792-5, Lambert publishers, Academic publication, Germany

Citation Index: Total Number of citations 211

Number of Citations per article: 16.00

SNIP: Cumulative SNIP: 10.184

SJR: Cumulative SJR: 2.018

Impact factor: Cumulative Impact Factor: 20.46

h-index: 7

Faculty name: Dr. S. Prabhu

Number of papers published in peer reviewed journals (national / international): 11

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 10

Monographs: NIL

Chapter in Books: NIL

Books Edited: NIL

Books with ISBN/ISSN numbers with details of publishers: 01

ISBN-NO 978-3-8454-0, Lambert publishers, Academic publication, Germany

Citation Index: Total Number of citations 161

Number of Citations per article: 16.33

SNIP: Cumulative SNIP: 4.759

SJR: Cumulative SJR: 0.578

Impact factor: Cumulative Impact Factor: 16.474

h-index: 6

Faculty name: Dr. E. Nakkeeran

Number of papers published in peer reviewed journals (national / international): 9

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 8

Monographs: NIL

Chapter in Books: NIL

Books Edited : NIL

Books with ISBN/ISSN numbers with details of publishers: NIL

Citation Index : Total Number of citations 34

Number of Citations per article: 3.78

SNIP: Cumulative SNIP: 12.091

SJR: Cumulative SJR: 1.028

Impact factor : Cumulative Impact Factor: 23.092

h-index: 3

Faculty name: Dr. Nalinkanth V. Ghone

Number of papers published in peer reviewed journals (national / international): 8

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 6

Monographs: NIL

Chapter in Books: NIL

Books Edited : NIL

Books with ISBN/ISSN numbers with details of publishers: NIL

Citation Index: Total Number of citations 168

Number of Citations per article: 21

SNIP: Cumulative SNIP: 8.227

SJR: Cumulative SJR: 2.063

Impact factor : Cumulative Impact Factor: 21.757

h-index: 5

Faculty Name: Mr. P.K. Praveen Kumar

Number of papers published in peer reviewed journals (National/ International): 7

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host,etc.): 6

Monographs: NIL

Chapter in Books: NIL

Books Edited : NIL

Books with ISBN/ISSN numbers with details of publishers: NIL

Citation Index :Total Number of citations: 05

Number of Citations per article: 0.714

SNIP: Cumulative SNIP: NIL

SJR: Cumulative SJR: NIL

Impact factor : Cumulative Impact Factor: 2.226

h-index: 1

20. Areas of consultancy and income generated

Sl.No	Name of company	Areas of consultancy	Income generated
1.	Innovative Health care Pvt. Ltd, Chennai	Protein processing and analysis	Rs. 6000/-
2.	Kumar organics Pvt. Ltd, Bangalore	Biopolymer processing	Rs 22,000/-

21. Faculty as members in

a) National committees

- Life member in Society of biological Chemists of India, IISC Bangalore
- Member of American Association of Animal Sciences
- Founding Member, Association for Biotechnologist, Coimbatore
- Member, Research Board, IIT Madras
- Doctoral Committee Member, Anna University, Chennai
- Doctoral Committee Member, VIT University, Chennai
- Life member of Indian Journal of Applied Microbiology
- Life membership in ISTE

- Member of Association of Food Scientists and Technologists India
 - Member in Research Journal of Biotechnology
 - Member in Biopharmaceutical Scientist in Institutional Ethical Committee
 - Member in The Indian Science Congress Association
 - Life time Member in Biotechnology Research Society of India
- b) International Committees
- Member of the Scientific Advisory Board, Curevax Inc., Flemington, USA
 - Member of International Society for Vaccines
 - Life Member of International Association of Computer Science and Information Technology
 - Member of International Association of Engineers
- c) Editorial Boards
- Chief Editor of International Journal of Contemporary Science & Engineering
 - Member of the Editorial Board, American Journal of Chinese Medicine
 - Editor, Biotechorum Newsletter of the Association for Biotechnologist, Coimbatore
 - Associate Editor – International Research Journal of Microbiology
 - Editorial Board Member - International Journal of Nutrition and Food Sciences
22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/programme – **64%**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies – **36%**
23. Awards/ Recognitions received by faculty and students
- Awards/Prizes received by the Faculty:
- Who's Who in the World 2013 Edition
 - Research Day Presentation award, 2013
- Awards/Prizes received by the students:

Year	Paper presentation	Poster / model presentation	Technical quiz	Sports	Outstanding student award	Fellowships
2009-2010	7	30	1	-	-	3
2010-2011	8	30	12	1	-	-
2011-2012	7	24	7	1	1	1
2012-2013	15	31	-	1	-	8

24. List of eminent academicians and scientists/ visitors to the department

Year	Name of Academicians & Scientists/Visitors	
2009-2010	Prof. Buddy D Ratner Director, University of Washington Engineered Biomaterials, Washington, USA	
	Prof. Lindsay Brown, Associate Professor, School of Biomedical Science, The University of Queensland, Australia	
	Dr. K. B.Ramachandran, Dept of Biotechnology, IIT Madras	
	Dr.S.Ramalingam, Assistant professor, Centre for Biotechnology, Anna University Chennai	
	Dr. T.Viruthagiri, Head of the Department, Dept of chemical engineering, Annamalai university	
	Dr. N. Parthasarathy, Department of Biotechnology, Rajalakshmi Engineering College	
	Mr. J. Ramanan Area Service Manager, Bioscience Division, Lab India Instruments Pvt. Ltd	
	Mr. R. Shankar, General Manager, SPINCO Pvt.Ltd	
	Dr. K. Prabhakaran Exe. Vice President – Fermentation, Strides Arcolab, Bilekahalli, Bangalore	
	Mrs. Smita Tillu, General Manager, Lab India Instruments Pvt. Ltd,	
	Mr.Subhojit Dutta, Application Specialist, Bioscience Division, Millipore (India) Pvt Ltd	
	Dr. M.D. Nair, Consultant, Pharmaceutical Industry, Chennai	
	2010-2011	Dr. Anand Pandiyan, Senior Lecturer of KEELE University, USA
		Mr. Sabesan Manikka Vasagam, Head of operations, Global Reach, Overseas Education
Dr. Chris Cane, Director of Bioscience, University of Leicester.		
Dr. Mrinal Mugdh, Vice president of Academic affairs, University of Houston		
Dr. K. Prabhakaran, Ex Vice president, Strides Acrolab		
Dr. T. Virudhagiri, Head of the Department, Annamalai University		
Dr. S.Ramalingam, Senior Lecturer, Anna University		
Dr. Madhavan Jagadesan, Head of Sankara Nethralaya, Department of Genetics		
R. Boopathi, Director of School of Biotechnology		
Resource Persons from Eppendorf Ltd., Chennai		
Dr.T.Raju, Department of Analytical Chemistry, University of Madras		
Dr. G. Sasikumar Chief Scientific Officer, Spic Science		
Sri. B. Sundaran Asst. Director, Pasteur Institute of India		
Dr. Rasappan, Managing Director, RV Diagnosis		
Prof. Mukesh Doble, Professor, Department of Biotechnology, IIT- Madras.		

2011-2012	Mr. Arun Kumar Thanagaraju, Oklahoma State University USA
	Dr. S. Chellaiiah, Visiting Professor, LIBA Loyola, BITS, Pilani
	Dr. Naresh Singhal, Associate Professor, University of Auckland
	Dr. K. Sekar, Professor, Indian Institute of Sciences
	Mr. Julie Bradley, Regional Manager, University of Auckland
	Dr. S. N. Mitra, CEO, BrainWave, Biosolutions
	Dr. S. Chellaiiah, Visiting Professor, LIBA Loyola, BITS, Pilani
	Dr.R.Rajasekaran, Assistant Professor, Vellore Institute of Technology
	Dr. K. Sekar, Professor, Indian Institute of Science
	Dr. Gopal Ramesh Kumar, AU-KBC Research Centre, MIT Campus of Anna University
	Dr. P. Gautham, Professor, Centre for Biotechnology, Anna University, Chennai.
	Dr. N. Gautham, Professor, Madras University.
	Dr. Sivagami Gopinath, M.B.B.S. DGO. Gynaecologist, Sooriya Hospital
	Dr. Bharathi Rajan Scientist, Mediclone Biotech Pvt. Ltd
Dr. R.B. Narayanan Department of Biotechnology, Anna University	
2012-2013	Dr. A. Mangala Gowri, Associate professor, Madras Veterinary College
	Mr. Santhosh Gummidipundi, San Jose State University, USA
	Dr. Brindha Lakshmi, Assistant Professor, Anna University
	Dr. R. B Narayanan, Department of Biotechnology Anna University
	Dr. Bharathi Rajan, Scientist, Mediclone Biotech Pvt. Ltd
	Dr. Rajan Ravichandran, Chairman, Sapiens Health Foundation
	Mr. R. Nim Bahadur, Manager, Education UK, British Council
	Dr. Ben Abell, Senior Lecturer, Sheffield Hallam University
	Dr. Sivasubramaniam, Senior Lecturer, Nottingham Trent University, UK
	Dr. Chitra Devi Palani, Department of Hematology and Oncology, Friedrich Schiller University, Germany
	Mr. T.S. Srinivasamurthy, I.F.S, Director of Environment Department
	Mr. T. Pradeep Professor, Indian Institute of Technology, Madras
	Dr. P.T. Kalaichelvan Professor, CAS in Botany, University of Madras
	Dr. C.Rose Chief Scientist & Head Department of Biotechnology, Central Leather Research Institute
	Dr. Velan, Professor, Anna University
	Dr.S.Sandhya CSIR Complex
	Dr. G. Vijayalakshmi, Senior Principal Scientist & Coordinator, Central Food Technological Research Institute
	Mr. T. Ramachandran, Mushroom Consultants Chennai
	Dr. K. Anbarasu Environmental Scientist, Tamil Nadu Co-Operative Milk Producers Federation Limited, AAVIN
	Dr. T.V. Ranganathan Professor, Department of Food Processing and Engineering Karunya University
	Dr.Micheal Tittus, senior lecturer, University of Boras, Sweden
	Dr. Mohan Ravuru, CEO of Helix2Health, Singapore
	Mr. Ambhighainath Ganesan, AHA predoctoral fellow, Johns Hopkins University, USA
	Dr. N. Bharathi, Director, Growmore Biotech Ltd, Hosur
	Dr. S. Vincent, Dean Research, Loyola College
	Dr. Mukesh Doble, Professor, IIT Madras
	Prof. P.T. Kalaichelvan, Professor, University of Madras
Dr. Akila Kalaichelvan, Director, Sculpture Institute of India	

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

Year	Conference /Workshop organized	Source of funding
2009	Workshop in “Recent Trends in Industrial Bioprocesses”	SVCE
2010	Workshop in real-time PCR for the diagnosis of diseases and molecular evaluation	Eppendorf ltd & SVCE
	“Recent Trends in Instrumentation in Quality Control & Quality Assurance in Bioprocess Industries”	TNSCST
2011	Current Trends in Drug Design by Bioinformatics Tool.	SVCE
	National Workshop on Current Trends in the Biotechnology of Vaccines	SVCE
2012	National conference on “Emerging trends in Environmental Biotechnology”	SVCE
	Workshop on “Modern biotechnological approaches for food processing”	SVCE
2013	National level Workshop on Phytoproducts for Human Health and Environmental Sustainability	SVCE

b) International: NIL

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
UG – B.Tech Biotechnology					
2009-2010		53	17	36	90.69
2010-2011		46	16	27	90.90
2011-2012		53	15	38	75.47
2012-2013		51	15	36	58.82
PG – M.Tech Biotechnology					
2010-2011		10	1	9	100
2011-2012		18	7	11	94.4
2012-2013		17	5	12	100

*M=Male F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
UG – B.Tech Biotechnology			
2009-2010	98	2	-
2010-2011	93	7	-
2011-2012	100	-	-
2012-2013	98	2	-
PG – M.Tech Biotechnology			
2010-2011	100	-	-
2011-2012	100	-	-
2012-2013	100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Name of the qualifying examination	Number of students who got qualified national/state level competition
GRE	67
TOFEL	55
IELTS	23
CAT/XAT	4
GATE	16

29. Student progression

Student progression	Against % enrolled
UG to PG	31
PG to M.Phil.	NA
PG to Ph.D.	3
Ph.D. to Post-Doctoral	NA
Employed	
• Campus selection	78
• Other than campus recruitment	3
Entrepreneurship/Self-employment	1

30. Details of Infrastructural facilities

a) Library

Resources Type	No. of Resources
BOOK TITLES	146
JOURNAL (INTERNATIONAL)	08
JOURNAL (NATIONAL)	13
e-JOURNALS	80
MAGAZINES (INTERNATIONAL)	05

b) Internet facilities for Staff & Students

12 Mbps, 30 Ports, 40 Port HUB - 02

c) Class rooms with ICT facility

Classrooms with Smart Board & LCD - 01

Conference Hall (100 seats), PA system, Podium with LCD - 01

CSB Lab with LCD - 01

d) Laboratories

Instrumental Method of Analysis/ Analytical Techniques Lab - 01

Biochemistry/ Bioorganic Chemistry Lab - 01

Bioprocess Lab/ Downstream Processing Lab - 01

Cell Biology Lab /Microbiology Lab	-	01
Molecular Biology Lab/Genetic Engineering Lab	-	01
Immunology Lab	-	01
Bioinformatics Lab	-	01
Computational Systems Biotechnology Lab	-	01

31. Number of students receiving financial assistance from college, university, government or other agencies

Academic Year	Type of Scholarship	Number of Students
2009-2010	Scheduled Tribe	1
	Economic Means	5
	Merit Scholarship	4
	Merit cum economic Scholarship	1
2010-2011	Merit Scholarship	6
	Merit cum means	5
	Sports	3
	Economic Means	3
2011-2012	Management Scholarship	
	Economic Means	7
	Merit Cum Means	3
	Merit	3
	Sports	1
	Books and Instruments	
	Merit cum Means	1
	Merit	3

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

The department has conducted number workshops/ conferences with the external experts giving lectures on current trends and advanced technology adapted in the various field of biotechnology. The various events conducted have been enlisted below:

Year	Name of Academicians & Scientists/Visitors	Events
2009-2010	Prof. Buddy D Ratner Director, University of Washington Engineered Biomaterials, Washington, USA	Guest Lecture
	Prof. Lindsay Brown, Associate Professor, School of Biomedical Science, The University of Queensland, Australia	
	Dr. K. B.Ramachandran, Dept of Biotechnology IIT Madras	Workshop on Recent Trends in Industrial Bioprocesses
	Dr.S.Ramalingam, Assistant professor, Centre for Biotechnology,	

	<p>Anna University Chennai</p> <p>Dr. T.Viruthagiri, Head of the Department Dept of chemical engineering, Annamalai university</p> <p>Dr. N. Parthasarathy, Department of Biotechnology, Rajalakshmi Engineering College</p> <p>Mr. J. Ramanan Area Service Manager, Bioscience Division, Lab India Instruments Pvt. Ltd</p> <p>Mr. R. Shankar, General Manager, SPINCO Pvt.Ltd</p> <p>Dr. K. Prabhakaran Exe. Vice President - Fermentation Strides Arcolab, Bilekahalli, Bangalore</p> <p>Mrs. Smita Tillu General Manager Lab India Instruments Pvt. Ltd,</p> <p>Mr.Subhojit Dutta, Application Specialist, Bioscience Division, Millipore (India) Pvt Ltd</p> <p>Dr. M.D. Nair Consultant Pharmaceutical Industry, Chennai</p>	
2010-2011	<p>Dr. Anand Pandiyan, Senior Lecturer of KEELE University, USA</p> <p>Mr. Sabesan Manikka Vasagam, Head of operations, Global Reach, Overseas Education</p> <p>Dr. Chris Cane, Director of Bioscience, University of Leicester.</p> <p>Dr. Mrinal Mugdh, Vice president of Academic affairs, University of Houston</p> <p>Dr. K. Prabhakaran, Ex Vice president, Strides Acrolab</p> <p>Dr. T. Virudhagiri, Head of the Department, Annamalai University</p> <p>Dr. S.Ramalingam, Senior Lecturer, Anna University</p> <p>Dr. Madhavan Jagadesan, Head of Sankara Nethralaya, Department of Genetics</p> <p>Mr. R. Boopathi, Director of School of Biotechnology</p> <p>Resource Persons from Eppendorf Ltd., Chennai</p> <p>Dr.T.Raju, Department of Analytical Chemistry, University of Madras</p> <p>Dr. G. Sasikumar Chief Scientific Officer, Spic Science</p>	<p>Guest lecture</p> <p>Workshop on Real-time PCR for the diagnosis of diseases and molecular evaluation</p> <p>Workshop Recent Trends in Instrumentation in Quality Control & Quality Assurance in Bioprocess Industries”</p>

Dr. Rajan Ravichandran, Chairman, Sapiens Health Foundation	
Mr. R. Nim Bahadur, Manager, Education UK, British Council	
Dr. Ben Abell, Senior Lecturer, Sheffield Hallam University	
Dr. Sivasubramaniam, Senior Lecturer, Nottingham Trent University, UK	
Dr. Chitra Devi Palani, Department of Hematology and Oncology, Friedrich Schiller University, Germany	
Mr. T.S. Srinivasamurthy, I.F.S, Director of Environment Department	One day National conference on “Emerging trends in Environmental Biotechnology
Mr. T. Pradeep Professor, Indian Institute of Technology, Madras	
Dr. P.T. Kalaichelvan Professor, CAS in Botany, University of Madras	
Dr. C.Rose Chief Scientist & Head Department of Biotechnology, Central Leather Research Institute	
Dr. Velan Professor, Anna University	
Dr.S.Sandhya CSIR Complex	
Dr. G.Vijayalakshmi, Senior Principal Scientist & Coordinator, Central Food Technological Research Institute	Workshop on “Modern biotechnological approaches for food processing”
Mr. T. Ramachandran Mushroom Consultants Chennai	
Dr. K. Anbarasu Environmental Scientist, Tamil Nadu Co-Operative Milk Producers Federation Limited, AAVIN	
Dr. T.V. Ranganathan Professor, Department of Food Processing and Engineering Karunya University	
Dr.Micheal Tittus, senior lecturer, University of Boras, Sweden	Guest Lecture
Dr. Mohan Ravuru, CEO of Helix2Health, Singapore	
Mr. Ambhighainath Ganesan, AHA predoctoral fellow, Johns Hopkins University, USA	
Dr. N. Bharathi Director, Growmore Biotech Ltd, Hosur	National level Workshop on Phytoproducts for Human Health and Environmental Sustainability
Dr. S. Vincent, Dean Research, Loyola College	
Dr. Mukesh Doble, Professor, IIT Madras	
Prof. P.T. Kalaichelvan, Professor, University of Madras	
Dr. Akila Kalaichelvan, Director, Sculpture Institute of India	

33. Teaching methods adopted to improve student learning
- By using
- (i) LCD Projector
 - (ii) Over-head Projectors
 - (iii) Smart Classroom
 - (iv) Interactive multimedia
34. Participation in Institutional Social Responsibility (ISR) and Extension activities-
- Biotechnology students involved in blood donation camp organized by rotaract club and NSS.
 - Third year biotechnology students under the leader ship of Mr. Rathinavel pandiyan carried out sparrow survey in North Chennai
 - Biotech students from CARE club co-organized kangeyam Cattle fair in Vellakoil, Erode.
 - CARE club organized ECO day.
 - CARE club participated in a documentary on water conservation for awareness completion organized by government of Tamilnadu.
 - CARE club performed energy conservation activities inside SVCE
 - CARE club organized tree plantation inside and around SVCE campus
 - NSS students participated in awareness rally on “Evil effects of illicit arrack”
 - Rotaract Students organized a trip to Bala Vihar (an orphanage to mentally challenged students)
35. SWOC analysis of the department and Future plans

Strength:

- The department has got 2 professors 3, associate professors and 11 Assistant professors.
- The department initially started with a UG Biotechnology programme, which was then upgraded with a PG level programme.
- Now the department also offers M.S (by research) and Ph.D programme.
- The department has got well established laboratory facility with sophisticated equipments like HPLC, Spray drier, insitu fermentor, fluorescent microscopes, RT- PCR, etc .
- The department has received a funding of about Rs. 18, 00,000/- from

AICTE for modernizing its lab facilities in the bioprocess and downstream processing lab.

- The department has received a funding from M/S CTS for Rs. 6,00,000/- to establish a Computational Biotechnology lab.
- The department has got a well established Animal House for doing in house projects with small animals like Mice, Rat and Rabbit.
- The Animal house functions with the approval of the animal ethical committee.
- Most of the students opting for placement get placed.
- The students opting for higher studies usually get good funding.

Weakness:

- The projects being done in this department is yet to be funded by the external funding agencies.
- The department is not able to place its students in core companies, because of their less salary package.

Opportunities:

- The department could diversify its programmes with more UG and PG programmes.
- The department could concentrate on entrepreneurship development and product designs.

Challenges:

- Getting placements and good academic records for the lateral entry students.

Future plans:

- The department has planned to commence a new PG programme in computational biotechnology.
- The department will work on getting patents for its innovations.

Evaluative Report of the Departments

Department : **Chemical Engineering**

- 1 Name of the department : **Chemical Engineering**
- 2 Year of Establishment : **1994**
- 3 Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
UG – B.Tech (Chemical Engineering)
PG - M.Tech (Chemical Engineering)
M.Tech (Petroleum Refining and Petrochemicals Engineering)
Ph.D – All areas of Chemical Engineering
- 4 Names of Interdisciplinary courses and the departments/units involved
Environmental Sciences (EEE, CE, ME, IT, CSE, MR)
Total Quality Management (TQM)
- 5 Annual/ semester/choice based credit system (programme wise)
B.Tech (Chemical Engineering) - Semester
M.Tech (Chemical Engineering) – Semester
M.Tech (Petroleum Refining and Petrochemicals Engineering) - Semester
Ph.D – All areas of Chemical Engineering
- 6 Participation of the department in the courses offered by other departments?
Environmental Science and Engineering (EEE, CE, ME, IT, CSE, MR, AE) Engineering Economics and Cost Analysis –Civil
- 7 Courses in collaboration with other universities, industries, foreign institutions, etc. - **NIL**
- 8 Details of courses/programmes discontinued (if any) with reasons – **NIL**
- 9 Number of Teaching posts

Year	Professor	Associate Professor	Assiatant Professor
2009	3	0	10
2010	3	0	9
2011	3	1	9
2012	3	1	18

10 Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.R.Parthiban	Ph.D	Professor& Head	Environmental Technology	21	-
Dr.K.Balu	Ph.D	Professor & Dean	Chemical Engineering	33	-
Dr.S.Chandrasearan	Ph.D	Professor	Industrial Tribology	26	-
Dr.N.Meyyappan	Ph.D	Associate Professor	Mass Transfer	17	-
Dr.S.Sivaraja	Ph.D	Assistant Professor	Environmental heat transfer and fluid dynamics	6	-
T.Kavitha	M.Tech	Assistant Professor	Chemical Engineering	12	-
PL.Umayal Karpagam	M.Tech	Assistant Professor	Human Resources and Management	11.5	-
R.Govindarasu	M.Tech	Assistant Professor	Process Control	13	-
A.C.Vijayalakshmi	M.Tech	Assistant Professor	Petroleum Refining and Petrochemicals	11.5	-
C.Muthuraj	M.Tech	Assistant Professor	Chemical Engineering	9	-
Dr.D.Balaji	Ph.D	Assistant Professor	Chemical Engineering	11.5	-
C.Sudha	M.Tech	Assistant Professor	Plant Design	6	-
B.S.Vishal	M.Tech	Assistant Professor	Energy Engineering	5	-
S.Rajasekar	M.Tech	Assistant Professor	Chemical Engineering	1.5	-
A.Asha	M.Tech	Assistant Professor	Petroleum Refining and Petrochemicals	1.5	-
D.Sivakumar	M.Tech	Assistant Professor	Environmental Management	1.5	-
Dr.G.Sivakami	Ph.D	Assistant Professor	Chemical Engineering	5	-
G.Hima Bindu	M.Tech	Assistant Professor	Corrosion Engineering	2	-
Dr.Palani	Ph.D	Assistant Professor	Chemical Engineering	7	-
A.Arokiaraj Alphones	M.Tech	Assistant Professor	Chemical Engineering	5	-
R.Remy	M.Tech	Assistant Professor	Chemical Engineering	1.5	-

11 List of senior visiting faculty - **NIL**

12 Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty - **NIL**

13 Student -Teacher Ratio (programme wise) –

B.Tech Chemical Engineering - **1:15**

M.Tech Chemical Engineering - **1:12**

14 Number of academic support staff (technical) and administrative staff; sanctioned and filled

Year	Technical	Administrative
2009	6	2
2010	6	2
2011	6	2
2012	5	2

15 Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.

16 Number of faculty with ongoing projects from

a) National funding agencies and grants received - **3**

b) International funding agencies and grants received - **NIL**

17 Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received –

Year	Project Name and Type	Funding Agency	Grant Amount
2009	Modernization of Chemical Reaction Engg (CRE) laboratory (MODROBS)	AICTE	7.5 Lakhs
2012	Modernization of Heat transfer laboratory (MODROBS)	AICTE	14.39 Lakhs
2013	Dynamic modeling and control of direct alcohol fuel cell (RPS)	AICTE	9.94 Lakhs (yet to be confirmed)
2013	FDP on Contemporary Research and Practices in Pollutant Elimination Systems towards Cleaner Environment	AICTE	1.75 lakhs

18 Research Centre /facility recognized by the University - **Yes**

19 Publications:

a) Publication per faculty

1. **Umayal Karpagam P.L** and Suganthi L “A strategic Framework for managing higher educational institutions”, *Advances in Management*, Vol, 3, No.10, pp 15-21, 2010.

2. **Parthiban R.**, Senthil Kumar R., (2011), ‘Removal of zinc [Zn²⁺] ions with crab shell particles from aqueous solution’ **International Journal of Environmental Sciences**, Vol. 1, No.7, pp. 1965- 1977

3. **Parthiban R.**, (2011), ‘Drying of Food Grains in an Annular Circulation

Fluidized Bed **International Journal of Advanced Engineering and Technology**, Vol. 2, No.4, pp. 1 – 9.

4. **Parthiban R.**, Senthil Kumar R., Latha Parthiban (2011), '*Biosorption of Lead with Turbinaria Conoides and Neuro Fuzzy modelling*' **International Journal of Environmental Sciences**, Vol. 1, No.7, pp. 2037 - 2047
5. **Parthiban R.**, (2011), '*Biodegradation kinetics during different start up of the anaerobic tapered fluidized bed reactor*' Songklanakarin Journal of Science and Technology, Vol. 33, No.5, pp 539-544
6. **Parthiban R.**, Sivarajan M (2011), '*Biotransformation of Hexavalent to Trivalent Chromium In Industrial Effluents*' **International Journal on Applied Bioengineering**, Vol. 5, No.2, pp. 1- 11.
7. **Parthiban R.**, Latha Parthiban, Porselvam S and Ravindranath E (2012), '*Multilayer perceptron modeling for UASB reactor treating tannery effluent*' **International Journal of Environmental Sciences**, Vol. 2, No.3, pp. 1504 – 1511.
8. **Parthiban R.**, (2011), '*Co-Active Neuro Fuzzy Inference System Modelling in Anaerobic Digestion of Wastewater Treatment*' Journal of Institution of Engineers (India) Chemical Engineering, Vol. 92, pp. 3-7
9. **Parthiban R.**, and Latha Parthiban (2011), '*Computational Intelligence with ANFIS for job satisfaction analysis*', Hindustan journal, Vol. 4, pp.81 - 86
10. **Parthiban R.**, and Latha Parthiban, (2011), '*Prediction of Biological activities of HIV-1 protease inhibitor compounds with integrated SOM-FUZZY ARTMAP*' National journal of Electronic Sciences and Systems, Vol 2, No2., pp. 14 – 22
11. Muthukumaraswamy R and **Ravi Shankar M** (2011), 'First order chemical reaction and thermal radiation effects on unsteady flow past an accelerated isothermal infinite vertical plate', Indian Journal of Science and Technology, Vol.4.
12. Muthukumaraswamy R, **Rahul R** and Balachandran P (2011), 'Radiation and first order chemical reaction effects on exponentially accelerated vertical plate', International Journal of Mathematical Sciences, Technology and Humanities, Vol.3, pp 25-36.
13. **Parthiban R.**, and Latha Parthiban, (2012) '*Back propagation Neural Network Modeling Approach in the Anaerobic Digestion of Wastewater Treatment*', **International Journal of Environmental Sciences**, Vol.2, No.4, pp. 1944 – 1951
14. Prabhu D and **Parthiban R.**, (2012), '*Fabrication of super paramagnetic Fe₃O₄ particles-polypyrrole-(PPY) for biomedical applications*', International Journal of Current Science., Vol 2, pp. 140 – 143
15. R.Govindarasu, **R.Parthiban**, P.K.Bhaba (2012), '*Investigation of Flow Maldistribution in Proton Exchange Membrane Fuel Cell Stack*', International

Journal of Renewable Energy Research, Vol.2, No.4, pp. 652 - 656

16. Muthukumaraswamy R , Balachandran P, **Prasanth V**, and Ganesan K (2013), 'Homogenous chemical reaction on unsteady flow past an accelerated vertical plate with variable temperature and thermal radiation', Thermal Engineering, Vol.54, pp 12503-12506.

Number of papers published in peer reviewed journals (national / international) by faculty and students - **16**

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Monographs

Chapter in Books

1. **R.Parthiban** (2012), '*Anaerobic wastewater treatment in a Tapered Fluidized Bed Reactor*', Chapter No. IX, *Wastewater Treatment: Advanced Processes and Technologies*, Edited by S.Feroz, R.Senthil Kumar, D.G.Rao and J.A.Byrne, published by International Water Association and CRC press, ISBN: 978-1780400341
2. **R.Parthiban**, C.Muthuraj and A.Rajakumar (2012), '*Computational Fluid Dynamics and its Applications*', Chapter No XII in "*Engineering Applications of Computational Fluid Dynamics*" Edited by *Maher A.R. Sadiq Al-Baghdadi*, published by International Energy and Environment Foundation, Iraq. ISBN : 978-1478329350

- Books Edited
- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- SNIP
- SJR
- Impact factor
- h-index

- 20 Areas of consultancy and income generated – **NIL**

21 Faculty as members in -

a) National committees b) International Committees c) Editorial Boards....

SI No	Name of the Faculty	Position /Year	Organisation
1	Dr.R.Parthiban	Member in PG Courses, Curriculum and Syllabus sub Committee, Faculty of Technology, Anna University, Chennai (2013).	Anna University, Chennai.
2		Executive Committee Member (2012~2014)	Institute of Engineers (India) Tamilnadu State Centre
3		Honorary Joint Secretary (2009 ~ 2012)	Indian Institute of Chemical Engineers (Chennai Regional Centre)
4	Dr.A.Rajakumar	Member in Curriculum and Syllabus Committee, Faculty of Technology, Anna University of Technology, Chennai (2011).	Anna University of Technology, Chennai.
5		Chairman, Viva voce board for projects, Chennai region for the AMIICHE projects (2009).	AMIChE
6		Associate Editor (2009)	Journal ENFUSE (Energy and Fuel User Association)

22 Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

Year	% of Students (In House Projects)
2009	23.8
2010	4.8
2011	42.9
2012	45

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

Year	% of Students (Outside the Institution)
2009	76.2
2010	95.2
2011	57.1
2012	55

- 23 Awards/ Recognitions received by faculty and students

- 24 List of eminent academicians and scientists/ visitors to the department

Date	Name & Address
2012-13	
8-03 -2013	Mr. R. Dorairaj, Associate Project Director (Retd), GSLV Project, ISRO
4-03-2013	Dr. V. Mahadevan Professor (Retd.), Indian Institute of Technology Kharagpur
4-02-2013	Dr. D.G. Rao Former Scientist, Central Food Technological Research Institute Resource Centre, Hyderabad
18-01-2013	Mr. R. Ravichander, Former Chief Engineer, Brahmaputra Valley Fertilizer Corporation Limited, Assam
13.09.12	Mr. C. R. Dwarakanath Vice President, Corporate Sh&E Orchid Chemicals & Pharmaceuticals, Chennai
13.09.12	Mr. S. Sunilkumar Global Marketing Head, Castrol Industrial, Chennai
13.09.12	Mr. C. S. Sampath Kumar Deputy General Manager Nagarjuna Oil Corporation Ltd, Cuddalore
14.09.12	Dr. J. R. Moses CEO, Hubert Enviro Care Systems (P) Ltd., Chennai
14.09.12	Dr. G. Chandrasekhar Professor, Chemical Engineering, Pondicherry Engineering College.
14.09.12	Dr. RM. Meyyappan Professor, Chemical Engineering, Annamalai University.
18-07-2012	Dr. N. Balasubramanian, Professor, Department of Chemical Engineering, Anna University, Chennai – 600 025
2011-12	
08.07.11	Mr.V.Sekar, Joint Managing Director, Formulated Polymers Ltd.,Chennai

26.07.11	Mr.Satish Narayanan, Manager, Intel Corp.,USA
28.07.11	Dr.T.K.Radhakrishnan, Professor and Head, Department of Chemical Engineering, NIT,Trichy
28.07.11	Dr.G.Chandrasekar, Associate Professor, Department of Chemical Engineering, Pondicherry Engineering College Pondicherry.
28.07.11	Mr.P.Anand Rajkumar, Manager, Customer Service Division, Yokogawa India Ltd., Chennai
29.07.11	Dr.P.R.Naren, Research Fellow, Unit De Catalyse, France
29.07.11	Mr. V.Raman, Director and CEO, SIM Infosystems Private Ltd., Chennai
29.07.11	Mr. V.Nagarajan, PETROFAC Engineering Services India Pvt. Ltd., Chennai
29.07.11	Mr.K.R.S.R Krishna, Vice President, PETROFAC Engineering Services India Pvt. Ltd., Chennai
12.10.11	Mr.V.Ramachandran, Engineering Manager, Chemsys
12.10.11	Mr.Edward Jenson, Engineering Manager, Chemsys
14.2.12	Mr.G.N.Venkatasivasubramaniam, Executive Director, Sriram Safety and Quality Management Services Pvt Ltd,Chennai
7.3.12	Dr.B.Pitchumani, Professor Emeritus, Indian Institute of Technology, Delhi
27.3.12	Dr.T.Kannadasan, Professor and Head, Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore
2010-11	
10.07.10	Mr.K.R.S.R Krishna, General Manager, PETROFAC Engineering Services India Pvt. Ltd., Chennai

10.07.10	Mr.N, Balasubramaniam, Sr. Manager, PETROFAC Engineering Services India Pvt. Ltd., Chennai
11.01.11	Mr. R. Rajagopalan, Sr. Vice President, Carborundum Universal Limited, Chennai
28.01.11	Mr. G. Sekar, Asst. General Manager, CETHAR Energy Ltd. Chennai.
08.01.11	Dr. P. Kanthabhabha, Prof & Head, Engg Wing-DDE, Annamalai University, Chidambaram.
08.01.11	Dr. T. Viruthagiri, Prof & Head, Dept. of Chemical Engineering, Annamalai University, Chidambaram.
11.02.11	Mr. Karthikravishankar, Chief Executive, Carbon Associates, Chennai
08.02.11	Dr. V. Murugesan, Director Research, Anna University, Chennai
08.02.11	Dr. SP. Elangovan, Manager-Inorganic Research Laboratory, Anna University, Chennai
05.03.11	Dr. E. Muralidharan, Consultant Biomedical Engineer, Chennai
25.03.11	Prof CD Gopalarathnam, Visiting Faculty, Anna University, Chennai
25.03.11	Mr. KN Venakatasubramaniam, Chairman, IOCL, New Delhi.
2009 ~ 2010	
28.07.09	Prof D Sathiyamoorthy, Outstanding Scientist, Head-Powder Metallurgy Division & Prof of Homi Bhabha National Institute, BARC, Mumbai
28.07.09	Mr R Varadarajan Executive, S&H Learning Development, Chennai
20.08.09	Dr S Pushpavanam, Prof & Head, Chemical Engineering, IITM, Chennai
20.08.09	Dr K Velusamy Scientist H, Head, Thermal Hydraulics Section, IGCAR, Kalpakkam
20.08.09	Dr R Sivacoumar, Scientist, NEERI Chennai zonal Lab, Taramani Chennai.
21.08.09	Mr Krishnendu Kundu STAT SOFT India NewDelhi
21.08.09	Dr G Swaminathan, Dy Director & Head, CISRA, CLRI, Adyar Chennai
21.08.09	Mr A Ramasubramanian Head, Process Design

	Technip India Ltd, Chennai
31.08.09	Mr S Sunilkumar General manager, Castrol India Limited, Industrial Lubricants & Services, Chennai
31.08.09	Mr Vasanth Immanuel Devraj, Manager-Plant materials, Asian Paints Ltd, SIPCOT Industrial Park Sriperumbudur
23.09.09	Ms. Lisa Duffy International Development Executive, IICChE
16.12.09	Dr N Anantharaman Prof, Chemical Engineering, NIT Trichy.
19.01.10	Mr K Sathyanarayana Jt Secretary Energy and Fuel Users Association of India
03.02.10	Er Elangovan Executive Engineer, PWD, WRD Environmental Cell division, IWS Campus, Chennai -113
09.02.10	Mr Manivannan Elumalai Engineer-Modelling & Simulation India soft Technologies (P) Ltd Chennai
08.03.10	Mr N Muthukrishnan Director, GerindTech Pvt Limited, Annanagar, Chennai
24.03.10	Mr P Anand Rajakumar Regional Service Execution Manager, Customer Service Division, Yokogawa India Ltd Chennai
30.03.10	Mr A Balasubramanian Lead Executive (Technical Services), Manali Petrochemical Ltd, Chennai

25 Seminars/ Conferences/Workshops organized & the source of funding

a) National

Title	Seminars/ Conferences/Workshops	Date	Source of Fund
Innovations in Process Engineering for sustainable development	Conference	13 th & 14 th September 2012	Prize money from PIDIILITE INDUSTRIES BEST STUDENT CHAPER AWARD-2011 • SVCE
Recent trends in Process control, modeling and simulation	Workshop	28 th & 29 th July 2011	Prize money from PIDIILITE INDUSTRIES BEST STUDENT CHAPER AWARD-2010
Paradigm shift in chemical engineering with special reference	Seminar	3 rd & 4 th September 2010	SVCE

to oil, refinery and gas sectors			
Software tools and packages relevant to modern chemical and environmental engineering practices	Seminar	20 th & 21 st August 2009	SVCE
State of art in the development of biofuels	Seminar	12 th & 13 th February 2009	SVCE

b)International

Title	Seminars/ Conferences/Work shops	Date	Source of Fund
Modern trends in materials technology 2009	International Conference	19 th & 20 th January 2009	SVCE

26 Student profile programme/course wise:

Name of the Course/programme: B.Tech Chemical Engineering

Year	Applications received	Selected (Strength)	Enrolled		Pass percentage
			Male	Female	
2009		65	46	19	98
2010		61	39	22	97
2011		60	36	24	97
2012		66	45	21	92

Name of the Course/programme: M.Tech Chemical Engineering

Year	Applications received	Selected (Strength)	Enrolled		Pass percentage
			Male	Female	
2009		-	-	-	-
2010		-	-	-	-
2011		2	2	-	50
2012		8	2	6	-

*M=Male F=Female

27 Diversity of Students (All faculty Advisors)

Name of the Course/programme: B.Tech Chemical Engineering

Year	% of students from the same state	% of students from other States	% of students from abroad
2009	92.3	7.7	0
2010	98.3	1.7	0
2011	96.6	3.4	0
2012	92.4	7.6	0

Name of the Course/programme: M.Tech Chemical Engineering

Year	% of students from the same state	% of students from other States	% of students from abroad
2009	-	-	-
2010	-	-	-
2011	2	0	0
2012	8	0	0

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Year	No of Students qualified in GATE
2009	1
2010	2
2011	2
2012	3
2013	3

29 Student progression

Year	Student progression	Against % enrolled
2009	UG to PG (16/61)	26.23
	PG to M.Phil.	N.A
	PG to Ph.D.	N.A
	Ph.D. to Post-Doctoral	N.A
	Employed	
	<ul style="list-style-type: none"> • Campus selection (22/61) • Other than campus recruitment (23/61) 	36.07 37.70
	Entrepreneurship/Self-employment	NIL
2010	UG to PG (16/60)	26.67
	PG to M.Phil.	N.A
	PG to Ph.D.	N.A
	Ph.D. to Post-Doctoral	N.A
	Employed	
	<ul style="list-style-type: none"> • Campus selection (27/60) • Other than campus recruitment (17/60) 	45.00 28.33
	Entrepreneurship/Self-employment	NIL

Note:

- 2 students who got placed in campus recruitment had joined some other companies by off-campus recruitment.
- 5 student who got placed in campus recruitment had joined higher studies.
- The campus placement percentage

Year	Student progression	Against % enrolled
has been arrived by excluding the above data.		
2011	UG to PG (18/66)	27.27
	PG to M.Phil.	N.A
	PG to Ph.D.	N.A
	Ph.D. to Post-Doctoral	N.A
Note: <ul style="list-style-type: none"> 2 students who got placed in campus recruitment had joined some other companies by off-campus recruitment. 1 student who got placed in campus recruitment had joined M. Tech Programme. The campus placement percentage has been arrived by excluding the above data. 	Employed	
	<ul style="list-style-type: none"> Campus selection (34/66) Other than campus recruitment (12/66) 	51.52 18.18
	Entrepreneurship/Self-employment	NIL
2012	UG to PG (4/90)	4.44*
	PG to M.Phil.	Nil
	PG to Ph.D.	Nil
	Ph.D. to Post-Doctoral	Nil
Note: * As on 20/03/2013. Figures may increase by the end of this academic year.	Employed	
	<ul style="list-style-type: none"> Campus selection (29/90) Other than campus recruitment 	32.22* Nil*
	Entrepreneurship/Self-employment	NIL

30 Details of Infrastructural facilities

a) Library

Sl No	No. of Books	No. of Journals	
		International	National
2011 ~ 2012	No of Tittles : 99 No of Volumes : 374	From Central library	From Central library
2010 ~ 2011	No of Tittles : 100 No of Volumes : 386	From Central library	From Central library
2009 ~ 2010	No of Tittles : 66 No of Volumes : 142	From Central library	From Central library
2008 ~ 2009	No of Tittles : 61 No of Volumes : 130	From Central library	From Central library

b) Internet facilities for Staff & Students

Total number of computers (Staff and students) : 13

Total number of computers with internet : 13

c) Class rooms with ICT facility

(i) No of class rooms with ICT facility : 02

(ii) No of projector : 01

d) Laboratories

M.TECH. CHEMICAL ENGINEERING**CH9316 INSTRUMENTAL METHODS OF ANALYSIS LAB**

Sl. No.	Name of the Course	Total Area of Laboratory (sq.m)	Major Equipments
1.	Instrumental Methods of Analysis		<ul style="list-style-type: none"> • UV-Visible spectrophotometer • Gas chromatograph. • High performance liquid chromatograph • Atomic absorption spectrophotometer

Sl No	Name of the Course	Total Area of Laboratory (sq.m)	Major Equipment
Unit Operations Laboratory			
1.	Heat Transfer	150	<ul style="list-style-type: none"> • Heat Exchangers • Condensers • Evaporators • Radiation Measurement • Forced and Natural Convection
2.	Mass Transfer	150	<ul style="list-style-type: none"> • Steam distillation • Simple distillation • Packed bed distillation • Bubble cap distillation • Dryers (Vacuum and Tray) • Absorbers • Extractors • Diffusion • Wetted wall column • Hold up studies • Leaching • Vapour Liquid Equilibria • Refractrometer.
Unit Operations Laboratory			
3.	Fluid Mechanics	150	<ul style="list-style-type: none"> • Fluidized Bed • Packed Bed • Flow through Pipes & Fittings • Helical Coil • Annular Pipe

			<ul style="list-style-type: none"> • Weirs and Notches • Variable and Constant Head Flow Meters • Reynolds Apparatus • Efflux Time Test rig • Pitot tube.
Unit Operations Laboratory			
4.	Mechanical Operations	150	<ul style="list-style-type: none"> • Crushers • Grinders • Sieve shakers • Vibrating screen • Cyclone Separator • Froth Floatation • ICI sedimentation • Air Permeability • Particle size distribution • Filters.
Kinetics Laboratory			
5.	Chemical Reaction Engineering	252	<ul style="list-style-type: none"> • Plug flow reactor • CSTR • Combined Reactor • Batch and Semi batch Reactor • Packed bed reactor • RTD in Plug Flow • RTD in MFR • Mixed Flow Reactors in Series • Temperature dependant Kinetics • pH Meters • Conductivity Meters.
Process Control Laboratory			
6	Process Control	86	<ul style="list-style-type: none"> • Level Controller • Flow Controller • Valve Characteristics • Temperature controller • Pressure Control Trainer • Multi Process trainer • CSTR Control Systems • Interacting & Non Interacting Systems • CS 3000-Distributed Control Systems
7	R & D Laboratory	50	<ul style="list-style-type: none"> • Peristaltic Pump • COD Analyser Kit • Tapered Fluidized bed • Autoclave • Magnetic Drive Pump • Total Organic Carbon Analyser • Orbital Shaker • Centrifuge • Deep Freezer • ORP Electrode

			<ul style="list-style-type: none"> Dissolved Oxygen meter Laminar Flow Chamber.
Organic Chemistry Laboratory			
8	Organic Chemistry Lab	166	<ul style="list-style-type: none"> Refrigerator Orbital Shaker Vacuum Pump
Physical Chemistry Laboratory			
9	Chemistry Laboratory III	136	<ul style="list-style-type: none"> Mechanical Shaker Hot air oven Vacuum pump
10	Technical & Instrumentation Analysis I	136	<ul style="list-style-type: none"> Humidity Oven Peristaltic Pump Infusion Pump
11	Technical & Instrumentation Analysis II		<ul style="list-style-type: none"> Muffle Furnace

- 31 Number of students receiving financial assistance from college, university, government or other agencies

Year	No. of Students receiving financial Assistance	Assistance received from
2009	13	College
2010	7	College
2011	23	College
2012	14	College

- 32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Date	Title of the Lecture	Name of the speaker & Details
18-07-2012	Chemical engineering challenges in 21 st century	Dr. N. Balasubramanian, Professor, Department of Chemical Engineering, Anna University, Chennai – 600 025
18-01-2013	Fertilizer industries in india – an overview	Mr. R. Ravichander, Former Chief Engineer, Brahmaputra Valley Fertilizer Corporation Limited, Assam
4-02-2013	Interfacing chemical engineering and food processing	Dr. D.G. RAO Former Scientist, Central Food Technological Research Institute Resource Centre, Hyderabad

4-03-2013	Spectrum of microwave applicatons in process industries	Dr. V. MAHADEVAN Professor (Retd.), Indian Institute of Technology Kharagpur
8-03 - 2013	Space technology and chemical engineering	Mr. R. Dorairaj, Associate Project Director (Retd), GSLV Project, ISRO
08.07.11	Entrepreneur Opportunity in Polymer Industry	Mr.V.Sekar, Joint Managing Director, Formulated Polymers Ltd.,Chennai
26.07.11	Career Talk	Mr.Satish Narayanan, Manager, Intel Corp.,USA
12.10.11	Pressure Safety Valve Design	Mr.V.Ramachandran, Engineering Manager, Chemsys
12.10.11	Process Design-An Introduction	Mr.Edward Jenson, Engineering Manager, Chemsys
14.2.12	Chemical Safety and Fire Safety	Mr.G.N.Venkatasivasubramaniam, Executive Director, Sriram Safety and Quality Management Services Pvt Ltd,Chennai
7.3.12	Particle Technology for Process Industry	Dr.B.Pitchumani, Professor Emeritus, Indian Institute of Technology, Delhi
27.3.12	Scopes and Research Areas of Chemical Engineering	Dr.T.Kannadasan, Professor and Head, Department of Chemical Engineering, Coimbatore Institute of Technology, Coimbatore
10.07.10	OPC-Functions in Oil & Gas sector	Mr.K.R.S.R Krishna, General Manager, PETROFAC Engineering Services India Pvt. Ltd., Chennai
10.07.10	OPC-Functions in Oil & Gas sector	Mr.N, Balasubramaniam, Sr. Manager, PETROFAC Engineering Services India Pvt. Ltd., Chennai
11.01.11	Chemical engineering role in abrasive and refractory industry	Mr. R. Rajagopalan, Sr. Vice President, Carborundum Universal Limited, Chennai
28.01.11	Energy conservation	Mr. G. Sekar, Asst. General Manager, CETHAR Energy Ltd. Chennai.

08.01.11	Fundamentals of process control	Dr. P. Kanthabhabha, Prof & Head, Engg Wing-DDE, Annamalai University, Chidambaram.
08.01.11	Research opportunities in Chemical Engineering	Dr. T. Viruthagiri, Prof & Head, Dept. of Chemical Engineering, Annamalai University, Chidambaram.
11.02.11	Opportunities in climatic conditions	Mr. Karthikravishankar, Chief Executive, Carbon Associates, Chennai
08.02.11	Nano-porous materials-a perspective in industrial application	Dr. V. Murugesan, Director Research, Anna University, Chennai
08.02.11	Nano-porous materials-a perspective in industrial application	Dr. SP. Elangovan, Manager-Inorganic Research Laboratory, Anna University, Chennai
05.03.11	Global warming	Dr. E. Muralidharan, Consultant Biomedical Engineer, Chennai
25.03.11	Fundamentals of Chemical Engineering	Prof CD Gopalarathnam, Visiting Faculty, Anna University, Chennai
25.03.11	AssociationValediction.	Mr. KN Venakatasubramaniam, Chairman, IOCL, New Delhi.

33 Teaching methods adopted to improve student learning

Power point presentations, Animation Videos, lectures with working models, OHP Presentation, seminars, guest lecture, Industrial visit, are conducted for effective learning.

Implementation of Distributed Control System (DCS) for all the experiments in Process Control Lab, exposure to sophisticated software like FLUENT for flow simulation, ProSIM and Aspen-Hysys for process simulation etc to get a feel of the theory studied or applications of the theory.

Modern teaching facilities like smart class room, video/audio facilities, technical video resources (video CDs, DVDs contains the animation of the process and concepts) for most effective delivery of the theory course to the students.

34 Participation in Institutional Social Responsibility (ISR) and Extension activities NSS,NCC etc - **NIL**

35 SWOC analysis of the department and Future plans

STRENGTHS :

1. The Laboratories are well equipped.

2. There are adequate computational facilities and software's.
3. AICTE assistance under MODROBS scheme (4 grants totaling approx : 20 Lakhs) has been effectively utilized
4. The cadre ratio is as per AICTE norms(3 – Professors, 10 Assistant Professors) all faculty have post graduation. 3 faculties have PhD degree and four have registered for PhD.
5. There are active research programs and thus faculty are well motivated.
6. The stocking of books in the library is adequate and as per norms
7. The academic performance of students in the university examination is consistently good.
8. The placement record is excellent approximately 1/3 of the students go for higher studies and among the rest 90% are placed through the college
9. The student participation in the professional activities is excellent. Indian Institute of Chemical Engineers – SVCE Student Chapter has been credited as the Best student chapter on all India basis (out of 98 such chapters) which has been obtained seven times.
10. High quality of students and Faculty
11. A culture of excellence
12. Recognition and respect of the institute among its peers
13. good working atmosphere and faculty and staff relations
14. Good relations with the chemical industry and professional bodies.

WEAKNESS:

1. For the expertise and facilities available no of publication by faculty is low
2. Retention time of faculty on an average is only around 4 to 5 years. This hinders initiation of continuing research work
3. Number of Technical journals in the library is in-adequate.

OPPORTUNITIES:

1. The college can opt for autonomous which will give enough leaway in tailoring the curriculum to the industrial needs
2. Permission to start Pot Graduate program exists and stumbling blocks for the lack of interest among students must be identified and removed.
3. The Research center status can be obtained with the profile of faculty and department which will open up vistas for research and consultancy.

4. Many chemical industries operate under the chairman ship of our chairman in and around Chennai and they can be effectively associated with our college to strengthen Industry-Institute collaboration
5. The technology innovation centre located inside the campus can be used for the benefit of faculty and students.

CHALLENGES

1. Faculty sponsored for acquiring higher qualification looks for greener pastures after the qualification
2. The quality of the students admitted need to be monitored closely as it can affect the academic results
3. The placement department must be strengthen to have close interaction with leading industries .
4. Administrative and work load of faculty existing now is counter productive and research works are first.
5. Lack of Availability of qualified supporting staff will pose greater threat to maintenance needs of the laboratories.

Evaluative Report of the Departments

Department: **CIVIL ENGINEERING DEPARTMENT**

1. Name of the department- Civil Engineering Department
2. Year of Establishment- 2008
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) - UG – B.E Civil Engineering
4. Names of Interdisciplinary courses and the departments/units involved - NIL
5. Annual/ semester/choice based credit system (programme wise) – Semester wise
6. Participation of the department in the courses offered by other departments - NIL
7. Courses in collaboration with other universities, industries, foreign institutions, etc. - NIL
8. Details of courses/programmes discontinued (if any) with reasons - NIL
9. Number of Teaching posts

	sanctioned	Filled
Professors	1	1
Associate Professors	2	2
Asst. Professors	6	6

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
B Nagendra Kumar	PhD	Professor and Head	Hydrodynamics, hydraulics, ports and harbours, numerical and physical modelling	12 (teaching), 28 (overall)	-
C G Hemamalini	M E	Associate Professor	Hydrology and ground water pollution	12	-
V Tamizhselvi	PhD	Associate Professor	Material behaviour engineering, corrosion control of rebars in	6	-

			reinforced concrete		
P Sangeetha	MS (by research)	Assistant Professor	Steel concrete composite structures	11	-
K Saranya	M E	Assistant Professor	Soil Mechanics and Foundation Engineering	3	-
G Kumaresan	M E	Assistant Professor	Structural Engineering	4	-
A Radha Krishnan	M E	Assistant Professor	Environmental Management	3	-
R Gopalakrishnan	M E	Assistant Professor	Concrete technology and material engineering	3	-
Ruby Freya	M E	Assistant Professor	Steel structures, computerized simulation modelling	1	-

11. List of senior visiting faculty - NIL
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty - NIL
13. Student -Teacher Ratio (programme wise) – B.E Civil Engineering 1:15
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled
 Technical staff – 3 (filled)
 Administration staff – 1 (filled)
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.

Name	Qualification
B Nagendra Kumar	PhD Coastal Management
C G Hemamalini	M E Water Resource engineering and Hydrology
V Tamizhselvi	PhD Corrossion control of rebars
P Sangeetha	MS (by research) Structural Engineering
K Saranya	M E Soil Mechanics and Foundation Engineering
G Kumaresan	M E Structural Engineering
A Radha Krishnan	M E Environmental Management
R Gopalakrishnan	M E Structural Engineering
Ruby Freya	M E Structural Engineering

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - NIL

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received - NIL

18. Research Centre /facility recognized by the University - No

19. Publications:

a) Publication per faculty P Sangeetha – 2

C G Hemamlini – 1

Number of papers published in peer reviewed journals (national / international) by faculty and students P Sangeetha – 2 C G Hemamlini – 1

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- Monographs - NIL
- Chapter in Books - NIL
- Books Edited - NIL
- Books with ISBN/ISSN numbers with details of publishers - NIL
- Citation Index - 0
- SNIP
- SJR
- Impact factor - 0
- h-index - 0

20. Areas of consultancy and income generated

Material testing and concrete cube testing for Rs.34200. Details in criteria III under consultancy details.

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards.... - NIL

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme – 58%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies – 42%

23. Awards/ Recognitions received by faculty and students - NIL

24. List of eminent academicians and scientists/ visitors to the department – Details in question 8 under Promotion of research in Criteria III
25. Seminars/ Conferences/Workshops organized & the source of funding
- a)National – One day National Workshop on Advances in Concrete Technology and Sustainable Materials conducted in October 2012.
- b)International - NIL
26. Student profile programme/course wise: NA

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M=Male F=Female

27. Diversity of Students

Name of the Course		% of students from the same state	% of students from other States	% of students from abroad
B.E Civil Engineering	2009-2010	97	3	0
	2010-2011	100	0	0
	2011-2012	100	0	0
	2012-2013	97	3	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

2011-2012 – NIL

2012-2013 – 1 student qualified in GATE

29. Student progression

Student progression	Against enrolled	%
UG to PG	23	
PG to M.Phil.		
PG to Ph.D.		
Ph.D. to Post-Doctoral		
Employed		
• Campus selection	23	
	20	

Student progression	Against enrolled %
• Other than campus recruitment	
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities

a) Library – Department has a department library with exclusive books for the course provided.

b) Internet facilities for Staff & Students – Internet is made available in all the computers in the department and can be used by faculty and students anytime.

c) Class rooms with ICT facility – All classrooms are provided with projectors. And one classroom has a smart board installed.

d) Laboratories – The department has 8 well equipped laboratories that are required for the course.

31. Number of students receiving financial assistance from college, university, government or other agencies

2008-2012 batch – 1(College)

2009-2013 batch – 2(College)

2010-2014 batch – 4 (College)

2011-2015 batch – 3 (College)

2012-2016 batch – 1(Government)

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts Guest lectures –

Date	Department	Title of the Lecture	Name of the speaker & Details	No of participants
04/03/2010	Civil	Computer applications in civil engineering	G S Palani, Sr. Asst. Director, Structural Engineering Research Centre, Chennai	120
29/07/2010	Civil	Problematic soils and ground improvement techniques	Dr. V K Stalin, Associate Prof, Anna University	80
23/02/2011	Civil	General aspects on soil engineering	Mr N Narayanan, Retired Chief Engineer, Land transport Authority, Government of Singapore	116
30/07/2011	Civil	Foundation on expansive clays-Problems and	Dr K Ilamparuthi, Professor and head, Civil Department, Anna	120

		remedial measures	University	
09/03/2012	Civil	Employability	S Virapan, Head Finishes Implementation Centre, L&T Construction	90
09/03/2012	Civil	Architecture for Civil Engineers	Ms Archana Jayakumar, Sr. Architect Finishes Implementation Centre, L&T Construction	120
28/03/2012	Civil	Opportunities for civil engineering students, valuation of assets,	Mr A V Perumal, Propreitor, AAV Perumal & Associates	95
27/07/2012	Civil	Status of tank irrigation in Tamilnadu	Dr Ramaswamy Sakhivel, Emeritus Prof., CWR, Anna University	120
30/01/2013	Civil	Chennai Metro Rail	V Somasundaram, CGM, Chennai Metro Rail Ltd.	135
31/01/2013	Civil	IIE and benefits	A M Gururaja, Chairman, Indian Institute of Engineers	120

Student Association activities –

An association namely Civil Engineering Association has been formed in the department to conduct student activities like symposiums and guest lectures.

A Technical Syposium named ARTIFEX is conducted yearly once –

2011-2012 – 18th August 2011

2012-2013 – 30th August 2012

Workshops –

2012-2013 – One day National level Workshop on “Advances in Concrete Technology and Sustainable Materials” on October 2012 with lectures delivered by eminent speakers like Dr. A.R.Santhakumar and Dr. Manu Santhanam.

33. Teaching methods adopted to improve student learning

- I. Power point presentation
- II. Explain the concept with some pracial examples.
- III. By giving more tutorial classes and assignments.
- IV. Use of smart boards

34. Participation in Institutional Social Responsibility (ISR) and Extension activities – Students are involved in NCC or NSS during their first year and few continue to be a part throughout the course. Students are also members of Leo club.

35. SWOC analysis of the department and Future plans

Strength –

- Presence of highly qualified faculty
- Students are being taken for industrial visits regularly for the practical exposure.
- A very good student teacher rapport is maintained.
- Latest teaching technologies implemented

Weakness –

- Research facilities are yet to be matured as it is a new department
- Attrition rate of faculty movement is significant

Opportunities –

- Opportunities lies in implementing new technologies, quality improvement, recruiting the best faculty, and growing in research activities.
- Achieving in making students 100% employable to get placement in industry and research

Challenges –

- Department has to become a well equipped research centre

Evaluative Report of the Departments

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Self-evaluation of every department may be provided separately in about 3-4 pages, avoiding the repetition of the data.

1. Name of the department : Computer Science and Engineering
2. Year of Establishment : 1985
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

B.E – Computer Science and Engineering

M.E – Computer Science and Engineering

Ph.D - Department of Computer Science and Engineering is recognized as a Research Centre by Anna University, Chennai in January 2010.
4. Names of Interdisciplinary courses and the departments/units involved Nil
5. Annual/ semester/choice based credit system (programme wise)

B.E – Semester based credit system

M.E - Semester based credit system
6. Participation of the department in the courses offered by other departments

CS Faculty handles the theory and the laboratory class for EE department for the following subjects.
 - Data Structures Theory
 - Data Structures Lab
 - Object Oriented Programming Theory.
 - Object Oriented Programming Lab.
 - Computer Networks
 - Operating Systems
7. Courses in collaboration with other universities, industries, foreign institutions, etc.Nil
8. Details of courses/programmes discontinued (if any) with reasons Nil

9. Number of Teaching posts

	sanctioned	Filled
Professors	4	4
Associate Professors	4	4
Asst. Professors	25	25

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name of the Faculty	Qualification	Designation	Specialization	No. of Years of Exp	No. of Ph.D. Students guided for the last 4 years
Dr.T.K.Thivakaran	Ph.D	Professor & HOD	Computer Science & Engineering	18years	Nil
	M.E		Computer Science & Engineering		
	B.E		Electrical & Electronics Engineering		
Dr.Susan Elias	PDF	Professor		21 years	currently guiding 2 research scholars
	Ph.D		Multimedia Communication		
	M.E		Multimedia Technology		
	B.E		Computer Science & Engineering		
Dr.M.Krishnamurthy	Ph.D	Professor	Computer Science	21 years & 5 months	Nil
	M.E		Computer Science & Engineering		
	M.Sc		Computer Science		
	B.Sc		Computer Science		
Dr. Vidhya.V	Ph.D	Professor	Information & Communication	12years & 5 months	Nil
	M.E		Computer Science & Engineering		
	B.E		Electrical & Electronics		

			Engineering		
Ms.S.R.Malathi	Ph.D [#]	Associate Professor	VLSI	16years	Nil
	M.E		Applied Electronics		
	B.E		Electronics & Communication Engineering		
Mr.S.Muthukumar	Ph.D [#]	Associate Professor		23years	Nil
	M.E		Applied Electronics		
	B.E		Electronics & Communication Engineering		
Ms.R.Jayabhaduri	Ph.D [#]	Associate Professor	Computer Science & Engineering	10 years	Nil
	M.E		Computer Science & Engineering		
	B.E		Computer Science & Engineering		
Ms.K.S.Gayathri	Ph.D [#]	Associate Professor		11 years & 10 months	Nil
	M.E		Computer Science & Engineering		
	B.E		Computer Science & Engineering		
Mr.N Balamurugan	Ph.D [#]	Assistant Professor		11 years	Nil
	M.E		Network Engineering		
	B.E		Computer Science & Engineering		
Ms.K.S. Subhashini	M.E	Assistant Professor	Communication Systems	10 yrs & 8 months	Nil
	B.E		Electronics & Communication Engineering		
Ms.R.Vanaja	M.E	Assistant Professor	Computer Science & Engineering	8 years	Nil
	B.E		Computer Science & Engineering		

Ms.V.Rajalakshmi	M.E	Assistant Professor	Computer Science & Engineering	8 years & 2 months	Nil
	B.Tech		Information Technology		
Ms.G.Janaka Sudha	M.E [#]	Assistant Professor	Computer Science & Engineering	8 years & 7 months	Nil
	B.E		Computer Science & Engineering		
Ms.R Gayathri	M.E	Assistant Professor	Multimedia Technology	8 years	Nil
	B.E		Computer Science & Engineering		
Ms.Kalavathi .S	M.E	Assistant Professor	Computer Science & Engineering	8 years	Nil
	B.E		Computer Science & Engineering		
Ms.U.Abirami	M.E [#]	Assistant Professor	Computer Science & Engineering	5 years & 11 months	Nil
	B.E		Computer Science & Engineering		
Ms.P.Vinothiyalakshmi	M.E	Assistant Professor	Computer Science & Engineering	5 years & 11 months	Nil
	B.E		Computer Science & Engineering		
Ms.S Rajalakshmi	M.E	Assistant Professor	Systems Engineering and Operational Research	8 years & 10 months	Nil
	B.E		Computer Science & Engineering		
Ms.J Buvana	M.E [#]	Assistant Professor	Computer Science & Engineering	5 years & 10 months	Nil
	B.Tech		Information Technology		
Mr.A.Sowmya Narayanan	M.E	Assistant Professor	Computer Science & Engineering	5 years	Nil

	B.E		Computer Science & Engineering		
Mr.R Ramakrishnan	M.E	Assistant Professor	Computer Science & Engineering	1 year & 10 months	Nil
	B.E		Computer Science & Engineering		
Mr.M.Suresh Kumar	M.E	Assistant Professor	Systems Engineering and Operational Research	7 years & 6 months	Nil
	B.Tech		Information Technology		
Ms.D.Sasikala	M.E	Assistant Professor	Computer Science & Engineering	2 years & 8 months	Nil
	B.E		Electronics and Instrumentation Engineering		
Ms.S.Senthamizh Selvi	M.E	Assistant Professor	Computer Science & Engineering	2 years & 8 months	Nil
	B.E		Electrical & Electronics Engineering		
Ms.B.Jayalakshmi	M.E	Assistant Professor	Computer Science & Engineering	13 years & 4 months	Nil
	B.E		Computer Science & Engineering		
Ms.K.Janani	M.E	Assistant Professor	Pervasive Computing Technologies	1 year & 8 months	Nil
	B.E		Computer Science & Engineering		
Mr.E.Sivakumar	M.E	Assistant Professor	Computer Science & Engineering	2 years	Nil
	B.E		Computer Science & Engineering		
Ms.S.Anitha	M.E	Assistant Professor	Computer Science & Engineering	10 months	Nil
	B.E		Computer		

			Science & Engineering		
Ms.P.Subhasree	M.E	Assistant Professor	Computer Science & Engineering	10 months	Nil
	B.E		Computer Science & Engineering		
Ms.S.U.Muthunagai	M.E	Assistant Professor	Pervasive Computing Technologies	10 months	Nil
	B.E		Computer Science & Engineering		
Ms.R.Sarala	M.E	Assistant Professor	Computer Science & Engineering	3 years & 9 months	Nil
	B.E		Computer Science & Engineering		
Ms.B.Sathiya	M.Tech	Assistant Professor	Distributed Computing System	10 months	Nil
	B.Tech		Computer Science & Engineering		
Mr.K.Kumanan	M.Tech	Assistant Professor	Distributed Computing System	8 months	Nil
	B.Tech		Information Technology		

11. List of senior visiting faculty - Nil
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty- Nil
13. Student -Teacher Ratio (programme wise)

Sanctioned Intake	Student	Teacher	Student Teacher Ratio
B.E (exclusive of I year)	360	33	1:10.9
M.E	50	3	1:16

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	sanctioned	Filled
academic support staff (technical)	4	4
administrative staff	2	2

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.

Name of the Faculty	Qualification
Dr.T.K.Thivakaran	Ph.D
	M.E
	B.E
Dr.Susan Elias	PDF
	Ph.D
	M.E
	B.E
Dr.M.Krishnamurthy	Ph.D
	M.E
	M.Sc
	B.Sc
Dr.Vidhya.V	Ph.D
	M.E
	B.E
Ms.S.R.Malathi	Ph.D(Pursuing)
	M.E
	B.E
	Ph.D(Pursuing)
Mr.S.Muthukumar	M.E
	B.E
Ms.R.Jayabhaduri	Ph.D (Pursuing)
	M.E
	B.E
Ms.K.S.Gayathri	Ph.D(Pursuing)
	M.E
	B.E
Mr.N M Balamurugan	Ph.D (Pursuing)
	M.E
	B.E
Ms.K.S. Subhashini	M.E
	B.E
Ms.R.Vanaja	M.E
	B.E
Ms.V.Rajalakshmi	M.E

	B.Tech
Ms.G.Janaka Sudha	M.E (Pursuing)
	B.E
Ms.R Gayathri	M.E
	B.E
Ms.Kalavathi .S	M.E
	B.E
Ms.U.Abirami	M.E (Pursuing)
	B.E
Ms.P.Vinothiyalaksh -mi	M.E
	B.E
Ms.S Rajalakshmi	M.E
	B.E
Ms.J Buvana	M.E (Pursuing)
	B.Tech
Mr.A.Sowmya Narayanan	M.E
	B.E
Mr.R Ramakrishnan	M.E
	B.E
Mr.M.Suresh Kumar	M.E
	B.Tech
Ms.D.Sasikala	M.E
	B.E
Ms.S.Senthamizh Selvi	M.E
	B.E
Ms.B.Jayalakshmi	M.E
	B.E
Ms.K.Janani	M.E
	B.E
Mr.E.Sivakumar	M.E
	B.E
Ms.S.Anitha	M.E
	B.E
Ms.P.Subhasree	M.E
	B.E
Ms.S.U.Muthunagai	M.E
	B.E
Ms.R.Sarala	M.E

	B.E
Ms.B.Sathiya	M.Tech
	B.Tech
Mr.K.Kumanan	M.Tech
	B.Tech

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received.

DRDO Funded Project (ongoing project)

Title : Network throughput Enhancement in Distributed System

Amount : Rs. 24.64 lakhs

Duration : 2 years

Period: July 2012 to July 2014

Status : Sanctioned & Ongoing

Principal Investigator : Dr.Susan Elias

Co-Investigator: Ms.R.Vanaja

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received.

DRDO FUNDED PROJECTS:

1. **Title :**The Design & Development of a multimedia presentation system that streams MPEG-21 compatible media-on-demand

Amount : Rs. 7.0 lakhs

Duration : 2 years

Period: February 2009 – February 2011

Status : Completed

Principal Investigator : Dr.Susan Elias

Co-Investigators:Ms.S.Pushpa,Ms.V.Vidhya

2. **Title :**Intrusion Detection in Wireless AdHoc Networks using Adaptive Heuristic Algorithm

Amount :Rs. 6.7 lakhs

Duration : 3 years

Period: June 2009 – May 2012

Status :Completed

Principal Investigator : Mr.P.C.Kishore Raja

Co-Investigator: Mr.M.Ravichandran

3. **Title :**Network throughput Enhancement in Distributed System

Amount : Rs. 24.64 lakhs

Duration : 2 years

Period: July 2012 to July 2014
Status : Sanctioned & Ongoing
Principal Investigator : Dr.Susan Elias

Co-Investigator: Ms.R.Vanaja

18. Research Centre /facility recognized by the University

Department of Computer Science and Engineering is recognized as a Research Centre by Anna University, Chennai in January 2010.

19. Publications:

a) Publication per faculty

Number of papers published in peer reviewed journals (national / international) by faculty and students

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- Monographs -NIL
- Chapter in Books- NIL
- Books Edited - NIL
- Books with ISBN/ISSN numbers with details of publishers- NIL
- Citation Index
- SNIP
- SJR
- Impact factor
- h-index

S.No	Dept	Number of papers published by faculty and students in peer reviewed journals (national international)	Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	Publication Per Faculty	Monographs	Chapter in Books	Books Edited	Books With ISBN/ISSN Numbers With Details of Publishers
1.	CS	Faculty – 49 Students-37	32	Details are given below.	Nil	Nil	Nil	Nil

S.No	Name of the Faculty	Department	Number of Publications	h-Index
1.	Dr.Susan Elias	CS	10	2
2.	Dr.R.Ramachandran	CS	6	1
3.	Dr.T.K.Thivakaran	CS	4	1
4.	Dr.M.Krishnamurthy	CS	7	0
5.	Dr.V.Vidhya	CS	7	0
6.	Ms.R.Jayabhaduri	CS	1	0
7.	Mr.M.Ravichandran	CS	3	1
8.	Ms.V.Rajalakshmi	CS	1	1
9.	Ms.R.Vanaja	CS	2	1
10.	Ms.S.R.Malathi	CS	2	0
11.	Mr.S.Muthukumar	CS	1	0
12.	Dr.Doreen Hephzibah Miriam	CS	1	2
13.	Mr.Ezhumalai P	CS	2	1
14.	Mr.P.C.Kishore Raja	CS	2	1

Faculty Name	Paper Title	Journal Name	Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)	Average Citation Index	SNIP [Source Normalized Impact Per Paper]	SJR	Impact Factor
Dr.Susan Elias	MPEG-21 Compatible Interactive Digital Content Adaptation	International Journal of Computational Intelligence Research	EBSCO	0	-	-	0
Dr.R.Ramachandran	An Improved Algorithm for Image Compression Using Wavelets and Contrast Based Quantization Technique	Information Technology Journal	SCOPUS	3	-	0.41	0
Dr.R.Ramachandran	An Efficient Hardware Architecture for H.264 Transform and Quantization	International Journal of Computer Science and Network Security	SCOPUS	0	-	-	0

	Algorithms						
Dr. V. Vidhya	An Intelligent Word net Based Approach for Text Analysis	International Journal of Computer, Mathematical Sciences and Applications		0	-	-	0
Mr.P C Kishore Raja	Wireless Node Misbehavior Detection Using Genetic Algorithm	Information Technology Journal	SCOPUS	0	-	0.41	0
Mr.P C Kishore Raja	Node Misbehavior Detection in Wireless AdHoc Network Using Genetic Algorithm	International Journal of Computing and Mathematical Applications		0	-	-	0
Dr.Susan Elias	Automatic OrCode Generation for Complex Workflow Patterns	International Journal of Computational Intelligence Research	EBSCO	0	-	-	0
Dr.R.Ramachandran	QoS Constrained Multicast Routing For Mobile Ad Hoc Networks	International Journal of Computer Science and Network Security	Scopus	0	-	-	0
Dr.M.Krishnamurthy	Mining Frequent Itemsets using Temporal Association Rule	CiiT International Journal of Data Mining Knowledge Engineering		0	-	-	0
Dr.M.Krishnamurthy	Temporal-Hmine-rev algorithm for Mining Frequent Patterns in Temporal Databases	CiiT International Journal of Data Mining Knowledge Engineering		0	-	-	0
Mr.M Ravichandran	SACOM: Secure Ant Colony Optimization for MANETs	International Journal of Computer and Electrical Engineering	EBSCO	0	-	-	0.733
Mr.M Ravichandran	Hybrid Parallel Routing Algorithm using Ant Agents for MANETs.	International Journal of Engineering and Technology	Google Scholar, Scirus	0	-	-	0

Mr.Ezhumalai P	Power Aware Hybrid Intrusion Detection System PHIDS for Wireless Ad-hoc Networks	International Journal on Computer Engineering and Information Technology	-	0	-	-	0
Dr.V.Vidhya	An intelligent text analysis system using word net approach	Journal of Technological world-Engineering Today	-	0	-	-	0
Dr.V.Vidhya	A very low bitrate Morphological based speech coder	Journal of Technological world-Engineering Today	-	0	-	-	0
Dr.Susan Elias	CAFSM : Adaptive Finite State Machine for Personalised Multimedia Streaming	International Journal of Computer Applications	EBSCO	0	-	-	0.814
Dr.Susan Elias	Improved personalised e-course composition approach using modified particle swarm optimization with inertia coefficient,	International Journal of Computer Applications	EBSCO	0	-	-	0.814
Dr.Susan Elias	Indexing scholarly publication using telescopic vector trees to discover authors with multiple expertise	International Journal of Information Studies	-	0	-	-	0
Dr.T.K.Thivakaran	Non Linear Filter based Image Denoising using AMF Approach	International Journal of Computer Science & Information Security	Scopus	0	-	-	0.423
Dr.M.Krishnamurthy	An Escalated Space Preservation Mining Algorithm for Finding	International Journal of Computer Engineering	-	0	-	-	0

	Frequent Itemsets						
Dr. V. Vidhya	Development of Semantic based Information Retrieval using Word-net Approach,	Int. Journal of Advanced Engineering and Technology		0	-	-	0
Mr.Ezhumalai P	Improving the performance of a scalable Encryption Algorithm (SEA) using FPGA	Intl Journal of Computer Science and Network Security	Scopus	0	-	-	0
Mr.M.Ravichandran	Processor Performance Enhancement Using Self Adaptive Clock Frequency	International Journal of Computer Applications	EBSCO	2	-	-	0.814
Dr.Susan Elias	Towards a Time-based Approach for Author citation Analysis	Journal of Information and Computational Science	Engineering Index (Ei Compendex)	0	0.219	0.026	-
Dr.R.Ramachandran	Handoff scheme to Enhance Performance in SIGMA	International Journal of Innovative Technology and Creative Engineering	DOAJ	0	-	-	0
Dr.R.Ramachandran	Data Management In Cellular Networks Using Activity Mining	International Journal of Computing Tecnology		0	-	-	0
Dr.R.Ramachandran	Compare the Network Friendliness of Transport layer based Mobility Protocols	International Journal of Mobile Adhoc Network		0	-	-	0
Dr.M.Krishnamurthy	Frequent Itemset Generation Using Hashing-Quadratic Probing Technique	European Journal of Scientific Research	Scopus	0	0.493	0.033	-
Dr.M.Krishnamurthy	Cluster based	International	Scopus,	0	-	-	0

	Bit Vector Mining Algorithm for Finding Frequent Itemsets in Temporal Databases	Journal of Procedia Computer Science, Elsevier	Sciverse				
Dr.M.Krishnamurthy	Hybrid Temporal Mining for Finding Frequent Itemsets in Temporal Databases Using Clustering and Bit Vector Methods	Communications in Computer and Information Science, Springer	DBLP, Google Scholar, EI-Compendex	0	-	-	0
Dr. Susan Elias	A Variant of Distributed Systems for Real Time Cross Layer Design	Journal of Universal Computer Science		0	1.262	0.039	
Dr. Susan Elias	Parallel Implementation of Cross Layer Optimization – A Performance Evaluation Based on Swarm Intelligence	ICTACT Journal on Soft Computing		0	-	-	0.62
Dr. Susan Elias	A Modified Estimation of Distribution Algorithm for Digital Filter Design	Romanian Journal of Information Science and Technology	SciSearch	0	-	-	0.188
Dr.T.K.Thivakaran	Finger Print feature extraction and identification using Direction oriented matrix with colour band,	International Journal of Computer Science & Information Security	Scopus	0	-	-	0.423
Dr.T.K.Thivakaran	Finger Print feature image enhancement using wavelet over Gabor filter	International Journal of Computer Technology & Applications	EBSCO	0	-	-	0
Dr.T.K.Thivakaran	Anonymous and Adoptable	International Journal of	EBSCO	0	-	-	0

	Key Management Scheme for Multicast and Broadcast Services	Computer Technology & Applications					
Dr.M.Krishnamurthy	Frequent Itemset Generation Using Double Hashing	International Journal of Procedia Engineering, Elsevier	Scopus	0	-	0.22	-
Dr. V. Vidhya	Frequent Itemset Generation Using Double Hashing	International Journal of Procedia Engineering, Elsevier	Scopus	0	-	0.22	-
Dr. V. Vidhya	A Novel Approach for Automatic Data Extraction from Heterogeneous Web Pages	International Journal of Computer Applications	EBSCO	0	-	-	0.814
Dr. V. Vidhya	An Efficient Concept-based Mining Model for Deriving User Profiles	International Journal of Applied Informatics Systems	Google Scholar	0	-	-	0
Ms.R.Jayabhaduri	Automatic Discovery of Association Orders between Name and Aliases from the Web using Anchor Texts-based Co-occurrences.	International Journal of Computer Applications	EBSCO	0	-	-	0.814
Ms. R.Vanaja	Parallel Implementation of Cross Layer Optimization – A Performance Evaluation Based on Swarm Intelligence	ICTACT Journal on Soft Computing		0	-	-	0.62
Ms. R.Vanaja	A Variant of Distributed Systems for Real Time Cross Layer Optimization	Journal of Universal Computer Science		0	-	-	0.669
Dr.Doreen Hephzibah Miriam D	Grid Scheduling using Improved Particle Swarm	International Journal of Scientific & Engineering	Citeseer, DBLP	0	-	-	1.4

	Optimization with Digital Pheromones	Research					
Dr. Susan Elias	Efficient Representation of Smart Environments using Parallelized Approach	ACEEE International Journal of Information Technology	EBSCO	0	-	-	0
Ms. V.Rajalakshmi	Efficient Representation of Smart Environments using Parallelized Approach	ACEEE International Journal of Information Technology		0	-	-	0
Ms.S.R.Malathi	A Cost effective design of reversible single precision floating point multiplier	International Journal of Research in Computer and Communication Technology	Google Scholar	0	-	-	0
Ms.S.R.Malathi	Reduction of bus transition for compressed code systems	International Journal of VLSI DESIGN & Communication Systems	Google Scholar	0	-	-	0
Mr.S.Muthukumar	Redundant Cache Data Eviction in a multi core Environment	International Journal of Advances in Engineering and Technology	EBSCO	0	-	-	0.5

20. Areas of consultancy and income generated Nil

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

Dr.Susan Elias, Asst.Dean of Co-curricular Activities is a member of Syllabus Framing Committee of Anna University.

Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

Year	Percentage of students
2012-2013	97.44
2011-2012	94.81
2010-2011	96.82
2009-2010	83.87

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

Year	Percentage of students
2012-2013	2.56
2011-2012	5.185
2010-2011	3.17
2009-2010	16.12

22. Awards/ Recognitions received by faculty and students.

Faculty

Year	Name	Awards/ Recognitions
March 2012	Mr.R.Ramakrishnan,Assistant Professor	Secured rank 1 for the PG degree of Anna University
	Ms.S.Anitha,Assistant Professor	Secured rank 2 for the PG degree of Anna University
2010	Dr.R.Ramachandran	Best Teacher by CTS
March 2010	Dr.Susan Elias	one of the 60 semi-finalists and was invited to attend the workshop on Commercialization Strategies for Entrepreneurs held in March 2010 at Delhi organized by FICCI, DST, Lockheed Martin Corporation, ICC Institute University of Texas and Indo-US Science & Technology Forum

Students

Period	Name	Awards/ Recognitions
28/12/2011	V.Priyesh, Keerthana D and Vimal Raj S of batch 2009-13	Secured First Place in vilgro-My Idea Program
07/12/2011 & 08/12/2011	Vigneshwaran Sankaran, Thiagarajan . T.S , Sharath. N. K (batch 2008-12)	Certificate of Achievement to SVCE - 30th at the all India level conducted by ACM – International Collegiate Programming Contest, Asia Region Kanpur site contest,IIT Kanpur
23/07/2011	Sarath Chandar.A.P,Arun Balaji.S,Manickam.K,Prakash Kannan.K (batch 2008-12)	Winner at Dhi Yantra Quiz2011 Received Cash Prize:Rs.20,000 conducted by Waran Research foundation

07/03/2011	Sarath Chandar, Arun Balaji and G Venkatesh (batch 2008-12)	Received Prize for paper titled: <i>CDPN : Communicating Dynamic Petri Nets for Adaptive Multimedia Presentation</i> at EXEBIT 2010 (IIT - M)
28/01/2011	S.Naveen kumar - (batch 2007-11)	Received First Prize for Photography Contest - IITM Saarang 2011
27/01/2011	Sarath Chandar A.P - (batch 2008-12) ,S.Vimal Raj & V.Priyesh (batch 2009-13)	Won the second prize at IBM-THE GREAT MIND TECH QUIZ 2010
17/01/2011	Sathish Kumar.P, Shriram.G.K - (batch 2007-11)	Secured third prize for IGATE Intercollege Scrabble 2011
12/02/2010	Archana Shree V.S, Bharanidharan S, Gurupragaash A M, Sathish Kumar P and Shriram G K (batch 2007-11)	CII Innovator 2009. Project title: <i>Adaptive e-learning for 3G Mobile Multimedia Systems.</i> Cash Prize: Rs.30,000
2009-2010	Mr.Sathish Kumar.N and Mr.Rajendran.S	Shortlisted for Innovation student Projects Award – 2010. Project title: Feature Extraction Using Random and Wavelet Transformation for Face Recognition.
2008-09	Nikila S.S	"Google women in Engineering Finalist"
2008-09	Aravind.T, Nithya, Pranayini [2004-2008] Batch	Received INAE award 2008. Project title: T9++-An Intelligent Text Predictive System for Mobile Devices.
June 2012	Sarath Chandar A P (batch 2008-12)	One of the 11 student scholars worldwide selected by the ACM SIGDA and ACM SIGOPS to attend the ACM TURING CENTENARY CELEBRATION was held at San Francisco on June 15 and 16 with full funding.
October 2012	S.Sivaranjani (batch 2009-13)	presented a poster on "Efficient Representation of Smart Environments" at the

		<p>Grace Hopper Celebration of Women in Computing to be held in Battimore, Maryland, USA from October 3rd to October 6th 2012. Google has provides Google Global Community Scholarship Award to attend the conference.</p>
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23. List of eminent academicians and scientists/ visitors to the department.

Sl.no	Name of the speaker & Details
1.	Mr.A.P.Sarathchandar Research Scholar,IIT Madras
2.	Dr.K.Rangarajan,chief Executive,Man Machine systems,Chennai
3.	Mr.R.Ramkumar, Chairman,Gemini Communications Limited,Chennai.
4.	Prof.Dr.Vijayakrishnan Narayanan, Pennsylvania state University
5.	Dr.Clive Roseo,Professor, University of Derby,UK
6.	Dr.Kamala Krithivasan Professor IIT Madras
7.	Mr.Ganesh Krishnamurthi Manager-Business Planning Standard Chartered Bank,Dubai
8.	Dr.Srinivasan,Project Head,CDAC,Chennai
9.	Mr.Jigar Doshi,Mr.Ankit Chhajer,Founders, Cheen Labs,Chennai
10.	De.Sheel Nuna, Director-South Asia Queensland University of Technology,Australia
11.	Mr.Venkatesan Prabha,MD,Kaashiv Infotech,Chennai
12.	Mr.S.Subramaniam Independent IT consultant
13.	Mr.Anand Lakshmanan, Sr.Manager,Erricson India Ltd
14.	Mrs.Manimegalai,Professor, Velammal Engineering College
15.	J.B.Siddharth Jonathan,CEO,CoFounder Infoaxe.Inc(USA)
16.	Dr.Satish Gopalakrishnan, AP, Electrical & Computer Engineering, University of British Columbia,Canada
17.	Dr.R.Ramanujan, Professor, The Institute of Mathematical Science
18.	Ms.Meera Menon,

	Solution Consultant, TCS-SCIO Inspire
19.	Mr.Venkatesh Krishnamurthy, SAP-HCM Consultant
20.	Mr.Praveen, Charles Senior Associate, Content and Design Services,CTS
21.	Dr.Shankar Balachandran AP,IIT Madras
22.	Mr.K.Balaraju,CEO,BODhBridge Incubates in IIT Madras
23.	Dr.Rani Siromoney Professor,Emeritus in Madras Christian College,Adjunct Professor in CMI
24.	Dr.Meena Mahajan, Professor , The Institute of Mathematical Sciences
25.	Mr.S.P.Ramanathan , CEO,Wesgrow systems
26.	Mr.N.Sadagopan, Research Scholar,IIT Madras
27.	Prof. Sheel Nuna Director-South Asia Queensland Universityof Technology,Australia
28.	Prof.B.Ravindran Professor,IIT Madras
29.	Mr. Manoj Researchers, Ericsson India Ltd.
30.	Mr.Ramkumar CEO, Gemini Communication Ltd
31.	Prof. Dame Wendy Hall Professor, Dept. of Computer Science, University of Southampton, UK.
32.	Mr. S.Shivashankar Researchers, Ericsson India Ltd
33.	Mr.T.S.Pradeep Kumar Assistant Professor (Selection Grade), School of Computing Science and Engineering, VIT Chennai
34.	Mr. J. Venkatesan Prabu Managing director, KaaShiv Infotech, Chennai
35.	Mr.Narendra,Principal Architect, Cognizant Technologies,Chennai

24. Seminars/ Conferences/Workshops organized & the source of funding

a)National

Sl.No	Academic Year	Details of Conference/Seminars / Workshop Conducted	Source of Funding
1	2008-09	National Conference on Computers and communication-NCCC-ISTE	ISTE
		1. ISTE sponsored IEEE national workshop on VLSI systems-NWVLSIS 2009 2. Workshop on Cloud Computing	ISTE
2	2009-10	1. Workshop on Web Security	
		2. Workshop on Theoretical Computer Science	
		3. Workshop on Algorithm Analysis.	
		4. Workshop on Python for Scientific computing.	MHRD,New Delhi
3	2010-11	1. Workshop on Theory of Computation. 2. Workshop on JAVA/J2EE Technologies. 3. National Workshop on Data Mining-A Research Perspective-2011 4. National Workshop on Research Methodology NWRM2011	
4	2011-12	1. One day Workshop on membrane computing. 2. CDAC workshop on cloud computing. 3. NLPC – National Level Programming Contest	
5	2012-13	1. A technical lecture on "LISP: The programmable programming language" 2. Technical Talk on "ETHICAL HACKING & COMPUTER FORENSICS", 3. Android Workshop 4. Workshop on NS2 5. Workshop on HTML5/CSS3	

b)International :

Sl.No	Period	Contest Name	Source of Funding
1	2011-12	ALPC – Asia Level Programming Contest	-

25. Student profile programme/course wise: Not Applicable

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.E - CSE					
M.E-CSE					
Ph.D					

*M=Male F=Female

26. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E	95.81	4.02	0.16
M.E	100	-	-

27. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Academic Year	GATE
2011-12	1
2010-11	nil
2009-10	5

28. Student progression

Student progression	Against % enrolled				
	2008-09	2009-10	2010-11	2011-12	
UG to PG	15	14	12	11	
PG to M.Phil.		-	-	-	
PG to Ph.D.		-	-	-	
Ph.D. to Post-Doctoral		-	-	-	
Employed					
• Campus selection	UG	83.69	78.8	98.95	98.18
	PG	25	21.42	87.5	84.61

Student progression	Against % enrolled			
	2008-09	2009-10	2010-11	2011-12
• Other than campus recruitment	-	-	-	-
Entrepreneurship/Self-employment				

29. Details of Infrastructural facilities

a) Library ---

b) Internet facilities for Staff & Students.

All Faculty rooms in the CS Department is equipped with computer with internet facility.

Computers in the laboratories are provided with internet facility.

c) Class rooms with ICT facility.

2 smart class rooms are provided exclusively for the CS Department.

d) Laboratories

Computers in the laboratories are provided with internet facility.

30. Number of students receiving financial assistance from college, university, government or other agencies.

Period	Name of the Scholarship	No.of Students Received
2012-13	Cognizant Foundation Scholarship	6
	Management Scholarship	18
	BC/MBC Scholarship	3
2011-12	Cognizant Foundation Scholarship	8
	Shree Vijayalakshmi Charitable Trust	6
	Management Scholarship	31
2010-11	Central Sector Scheme Scholarship	2
	Cognizant Foundation Scholarship	2
	Management Scholarship	35
2009-10	District Backward Scholarship (Anna Memorial Scholarship)	1
	Management Scholarship	10

	BC Scholarship	7
	Central Sector Scheme Scholarship	4
	SC/ST Scholarship	9

31. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts.

YEAR:2012-13 Guest Lecture

S.No	Title	Handled By	Date
1.	A technical lecture on "LISP: The programmable programming language"	Dr. K. Rangarajan, Chief Executive, Man Machine Systems, Chennai.	23/07/2012
2	Technical Talk on "ETHICAL HACKING & COMPUTER FORENSICS",	Gemini Communications Limited (GCL)	15/10/2012

YEAR:2012-13 Workshop

S.No	Title	Handled By	Date
1	Android Workshop	Madhav Rajan (Final Year CS Student)	25/01/2013.
2	Workshop on NS-	Mr.T.S.Pradeep Kumar, VIT Chennai	22/02/2013
3	Workshop on HTML5/CSS3	Mr.J.Venkatesan Prabu, Managing Director, Kaashiv Infotech	05/03/2013

Year : 2011-12

Workshop			
S.No	Title	Handled By/Organizers	Date
1.	Demo workshop on developing Applications in Android	Mr.V.Maheshwar, Co-Founder,ILLUMINATI ,Chennai	28/07/2011
2.	Workshop on Android Application Development	Mr. Maheshwar ,Illuminati,Chennai	19/08/2011
3.	Workshop on Ethical Hacking	Mr. Vinoth Cyber Cadet Corps, Chennai	19/08/2011
4.	Workshop on Robotics	Mr. Balaji Lakshmanan iMakerobots, Chennai	19/08/2011

5.	Workshop on Membrane Computing	Prof. Frisco Pierluigi School of Mathematical and Computer Sciences, Heriot-Watt University Edinburgh, UK	04/10/2011
6.	Cloud Computing Workshop	Centre for Development of Advanced Computing (C-DAC)	07/03/2012 & 08/03/2012
Guest Lecture			
7.	Accelerating Neuro morphic vision on Field Programmable Gate Arrays	Prof.Dr.Vijayakrishnan Narayanan Pennsylvania State University	15/07/2011
8.	Software Development Process	Dr.Clive Rosen,Professor,University Of Derby,U.K.	26/07/2011
9.	Theoretical Computer Science	Dr. Kamala Krithivasan Professor,IITM	05/09/2011
10.	Tech talk on Web 2.0	Mr. Krish Ashok Head of Web 2.0, Innovations Lab, TCS India.	29/09/2011
11.	How Computer Science & Engineering is useful	Mr.Ganesh Krishnamurthi, Manager- Business Planning,Standard Chartered Bank-Dubai (SVCE –CSE 2005 batch)	28/10/2011
12.	Open Source Software	Mr.Srinivasan, Project Scientist,C-DAC	20/01/2012
13.	Start ups in India	Mr.Jigar Doshi,Mr.Ankit Chhajjer Founders,Cheeni Labs,Chennai	27/01/2012
14.	Research Opportunities in Australia	Dr.Sheel Nuna, Director-South Asia,Queensland University of Technology,Australia	01/02/2012
15.	Tech Talk on Cloud Computing	Dr. P. Malliga Systems Analysts, Computer Centre, NITTTR	07/02/2012
16.	Challenge and Response	Ms.Usha Lakshmanan,Vice President,HCL Technologies	13/03/2012
17.	Latest Microsoft Technologies	Mr.Venkatesan Prabu Jayakantham,Managing Director,Kaashiv Infotech,Chennai	21/03/2012

Year : 2010-11

Guest Lecture			
Sl.No	Topic	Name of the Speaker & Details	Date
1.	Research Methodology NWRM 2011	Mr.L.S.Ganesh, Professor Department of Management studies IIT Madras	30/03/2011
2.	Search Engines	Mr. J.B.Siddharth Jonathan CEO, Co founder Infoaxe.Inc, (USA)	29/03/2011
3.	Design of Parallel Algorithms	Dr. K.S. Easwarakumar Prof/ CSE Dept Anna University, Chennai	26/02/2011

4.	E-Governance	Dr. Santhosh Babu IAS MD, ELCOT & CEO TNEGA	09/02/2011
5.	VLSI Algorithms and Research Issues	Mrs.S.Manimegalai Professor, Velammal Engineering of College,Redhills.	02 /02/2011
6.	Web 2.0 based Project	Ms. Nikila Srinivasan (Alumni of SVCE 2009 passed out)	08/01/ 2011
7.	Agile Methodologies	Mr.Anand Lakshmanan, Sr. Manager, Ericsson India Ltd, Chennai	17/12/2010
8.	Information on IPR	Dr.T.N.Shanmugam Professor Department of Mathematics Anna University, Guindy, Chennai.	08/10/2010
9.	Real Time Systems	Dr. Sathish Gopalakrishnan Asst.Prof, University of British Columbia	06/10/2010
10.	Open Source Software	Mr.Narendra,Principal Architect Cognizant Technologies,Chennai.	08/09/2010
11.	Smart Vision	Prof. Vijay Krishnan Narayanan, Professor Pennsylvania State University	24/07/2010
12.	How to become a successful Software Professional?	Mr. Balakrishnan Shanmugham Global Head, Academy, Cognizant, Chennai.	13/07/2010

Workshop

1.	Hands on training- Weka tool	Mr. N.Manikandan Professor,VIT,Vellore.	24/03/2011 &25/03/2011
	Challenges in Image & Multimedia Mining.	Dr. Anandakumar Professor,MIT,Chrompet,Chennai.	24/03/2011 &25/03/2011
	Making sense of a connected world: social network analysis	Dr. Ravindran IIT, Madras	24/03/2011 &25/03/2011
	Sequence Mining in Bioinformatics.	Dr. Ashish V.Tendulkar Professor, IIT, Madras	24/03/2011 &25/03/2011
	Data Mining – A Research Perspective	Dr. V.Vaidehi,Professor &Head MIT, Chrompet, Chennai.	24/03/2011 &25/03/2011
	Application of Graph theory in web mining.	Dr. S.Sendhilkumar, Assistant Professor Anna Univesity, Chennai	24/03/2011 &25/03/2011
2	Java/J2EE Technologies	Mr. M.Puratchidasan Team Leader on Java Technologies, IBM Bangalore	28/12/2010
3	Algorithm Analysis	Dr.K.S.Easwarakumar	29/10/2010

		Prof. CSE Dept, Anna University, Chennai	
Technical Lecture Series			
1.	Machine Learning	Mr. Shivashankar Research Scholar from IIT Madras	22/01/ 2011, 02/02/ 2011 04/03/ 2011
2.	Theory of computation	Mr. N. Sadagopan Research Scholar (Ph.D) IIT Madras	24/07/2010 07/08/2010 09/10/2010

Year : 2009-10

Guest Lecture			
Sl.No	Topic	Name of the Speaker & Details	Date
1.	Enterprise Resource Planning	Mr. Venkatesh Krishnamurthy SAP HCM Consultant, USA.	19/03/2010
2.	Software Development Process	Ms. Meera Menon Solution Consultant TCS, SCIO Inspire, Chennai.	17/03/2010
3.	Algorithm Analysis	Dr.K.S.Easwara Kumar Professor, CSE Anna University, Chennai	09/10/2009
4.	Principles of OOPS	Mr. S.P.Ramanathan CEO, Wesgrow Systems	01/09/2009
5.	Web Centric Communication Technologies	Mr. Praveen Charles Senior Associate Content & Design Services, CTS, Chennai	20/07/ 2009
Workshop			
1.	Workshop on Python for Scientific Computing	Dr.Prabhu Ramachandran Professor, Dept of Aerospace Engg., IIT Mumbai Mr.Asokan Pichai Consultant, IIT Bombay	22/04/2010 & 23/04/2010
2.	Workshop on Theoretical Computer Science	Mr. N. Sadagopan Research Scholar (Ph.D) IIT Madras Dr. Rani Siromoney Prof. Emeritus in Madras Christian college, Chennai. Dr. Meena Mahajan Professor The Institute of Mathematical Sciences Chennai.	25/08/2009

		Dr. R. Ramanujan Professor The Institute of Mathematical Sciences Chennai.	
3.	Workshop on Network Security & Cyber Crime	Dr. Shankar Balachandran Assistant Professor IIT Madras	13/08/2009
		Mr. K. Balaraju CEO Bodhbridge Incubated in IIT Madras	

32. Teaching methods adopted to improve student learning

Smart class rooms are available in the department to improve student learning process. Conducting tests daily on one subject helps the student in academic progress.

33. Participation in Institutional Social Responsibility (ISR) and Extension activities.

Nil

34. SWOC analysis of the department and Future plans

The department of CSE has a group of young and experience faculty members with very sound academic results and dedication. Total number of teachers as well as number of teachers with Masters & Ph. D. degree is increasing over the last five years.

A significant number of meritorious students are taking admission and the quality of the enrolled students is improving every year.

Graduates of the program are working with good standing in public and well reputed private organizations. Also the graduates are running some promising small-scale business in ICT sector. At the same time good numbers of graduates are pursuing higher study in renowned universities around the world.

Department of CSE has started M.E. Program in 2002 session. Along with this program the research facility of the department is improving.

Weakness:

We have to strengthen still the department with more Ph.Ds.

Collaboration with industries in both regional and national level to be improved further hence, the program can be ensured up to date with current trends.

Funded projects and proposals to be increased more.

Future Plans:

1. To get more funded projects.
2. To improve indutry collabarations
3. To start a new PG program on pervasive computing. etc.

Evaluative Report of the Departments

Department: **ELECTRONICS AND COMMUNICATION ENGINEERING**

1. Name of the Department: Electronics and Communication Engineering
2. Year of Establishment: 1985
3. Name of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.)

Sl.No	Course	Name of the program
1	UG	B.E Electronics and Communication Engineering
2	PG	M.E Communication Systems
3	PG	M.E Applied Electronics
4	Ph.D	Electronics and Communication Engineering

4. Names of Interdisciplinary courses and the departments / units involved nil
5. Annual / Semester / choice based credit system (programme wise)

Sl.No	Course	Name of the program	Evaluation Pattern
1	UG	B.E Electronics and Communication Engineering	Semester
2	PG	M.E Communication Systems	Semester
3	PG	M.E Applied Electronics	Semester
4	Ph.D	Electronics and Communication Engineering	Semester

6. Participation of the department in the courses offered by other departments

Department of ECE offering help to handle the following courses to other departments

- Microprocessor and Microcontroller
- Digital Systems
- Digital Signal Processing
- Linear Integrated Circuits
- Communication System
- VLSI
- Information Coding & Signal Processing

- Principles of Communication

- Courses in collaboration with other universities, industries, foreign institutions, etc. NIL
- Details of courses / programmes discontinued (if any) with reasons: Nil
- Number of Teaching posts

	Sanctioned	Filled
Professors	5	4
Associate Professors	11	2
Assistant Professors	19	27

- Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt./Ph.D./ M.Phil., etc.)

Sl. No.	Name	Designation	Qualification	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
01.	Dr..S. Ganesh Vaidyanathan	Professor & Head	Ph.D.	21.5	nil
02.	Dr.R.Ramachandran	Professor & Director-Research	Ph.D.	43.10	nil
03.	Dr.M.Subramaniam	Professor	Ph.D.	39.6	nil
04.	Dr.G.A.Sathish Kumar	Professor	Ph.D.	12.0	nil
05.	Mrs.G.Padmavathy	Associate Professor	M.E	25.6	nil
06.	Dr.Umma Habiba	Associate Professor	Ph.D.	16.6	nil
07.	Mr.S.R.Balasubramanian	Assistant Professor	M.Tech	16.0	nil
08.	Mrs.Jothilakshmi	Assistant Professor	M.E	11.4	nil
09.	Mrs.T.J.Jeyaprabha	Assistant Professor	M.E	11.5	nil
10.	Mrs.D.Menaka	Assistant Professor	M.E	8.0	nil
11.	Mrs.K.Srividhya	Assistant Professor	M.E	9.0	nil
12.	Mr.S.Senthil Rajan	Assistant Professor	M.E	9.0	nil
13.	Mr.S.P.Sivagnana Subramanian	Assistant Professor	M.E	9.0	nil
14.	Mrs.S.Kalyani	Assistant Professor	M.E	6.11	nil
15.	Mrs.R.Kousalya	Assistant Professor	M.E	5.5	nil
16.	Mr.M.Athappan	Assistant	M.E	7.11	nil

		Professor			
17.	Ms.P.Sasikala	Assistant Professor	M.E	5.8	nil
18.	Ms.L.Anju	Assistant Professor	M.E	6.10	nil
19.	Ms.B.Sarala	Assistant Professor	M.E	6.8	nil
20.	Mr.P.Muthukumar	Assistant Professor	M.E	4.6	nil
21.	Ms.M.Anushya	Assistant Professor	M.E	5.0	nil
22.	Ms.B.Hemalatha	Assistant Professor	M.E	6.10	nil
23.	Mr.S.Saravanan	Assistant Professor	M.E	6.9	nil
24.	Ms.S.Radhika	Assistant Professor	M.E	0.10	nil
25.	Ms.M.Vidya	Assistant Professor	M.E	4.0	nil
26.	Ms.S.Poorani	Assistant Professor	M.E	2.0	nil
27.	Mr.M.K.Varadarajan	Assistant Professor	M.E	4.6	nil
28.	Ms.C.Gomatheeswari Preethika	Assistant Professor	M.E	0.10	nil
29.	Mrs.R.Rajeswari	Assistant Professor	M.E	1.3	nil
30.	Mr.M.Premkumar	Assistant Professor	M.E	9.8	nil
31.	Mr.M.H.Masood	Assistant Professor	M.E	20.0	nil
32.	Ms.K.L.Swantana	Assistant Professor	M.E	nil	nil
33.	Mr.R.Gayathri	Assistant Professor	M.Tech	13.0	nil

11. List of senior visiting faculty

Dr.M.J.S.Rangachar served as senior visiting faculty during the academic year 2010 to 2011 handling both UG and PG courses

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty nil

13. Student-Teacher Ratio (programme wise)

Program	Student – Teacher Ratio	Status of STR at EC Department
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UG	1:15	For 420 UG Students, we have 26 faculty members in the department with a shortage of 2 faculty members
PG	1: 12	For 86 PG Students, we have 7 faculty members with out any shortage of man power

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	Sanctioned (Required)	Filled
Academic Support Staff	8	8
Administrative staff	2	2

15. Qualifications of teaching faculty with D.Sc./ D.Litt./Ph.D./PG

Sl. No.	Name	Designation	Qualification
01.	Dr..S. Ganesh Vaidyanathan	Professor & Head	Ph.D.
02.	Dr.R.Ramachandran	Professor & Director-Research	Ph.D.
03.	Dr.M.Subramaniam	Professor	Ph.D.
04.	Dr.G.A.Sathish Kumar	Professor	Ph.D.
05.	Mrs.G.Padmavathy	Associate Professor	MS
06.	Dr.Umma Habiba	Associate Professor	Ph.D.
07.	Mr.S.R.Balasubramanian	Assistant Professor	M.Tech
08.	Mrs.Jothilakshmi	Assistant Professor	M.E
09.	Mrs.T.J.Jeyaprabha	Assistant Professor	M.E
10.	Mrs.D.Menaka	Assistant Professor	M.E
11.	Mrs.K.Srividhya	Assistant Professor	M.E
12.	Mr.S.Senthil Rajan	Assistant Professor	M.E, MBA, M.Phil
13.	Mr.S.P.Sivagnana Subramanian	Assistant Professor	M.E
14.	Mrs.S.Kalyani	Assistant Professor	M.E
15.	Mrs.R.Kousalya	Assistant Professor	M.E
16.	Mr.M.Athappan	Assistant Professor	M.E

17.	Ms.P.Sasikala	Assistant Professor	M.E
18.	Ms.L.Anju	Assistant Professor	M.E, MBA
19.	Ms.B.Sarala	Assistant Professor	M.E
20.	Mr.P.Muthukumaran	Assistant Professor	M.E
21.	Ms.M.Anushya	Assistant Professor	M.E
22.	Ms.B.Hemalatha	Assistant Professor	M.E
23.	Mr.S.Saravanan	Assistant Professor	M.E
24.	Ms.S.Radhika	Assistant Professor	M.E
25.	Ms.M.Vidya	Assistant Professor	M.E
26.	Ms.S.Poorani	Assistant Professor	M.E
27.	Mr.M.K. Varadarajan	Assistant Professor	M.E
28.	Ms.C.Gomatheeswari Preethika	Assistant Professor	M.E
29.	Mrs.R.Rajeswari	Assistant Professor	M.E
30.	Mr.M.Premkumar	Assistant Professor	M.E
31.	Mr.M.H.Masood	Assistant Professor	M.E
32.	Ms.K.L.Swantana	Assistant Professor	M.S
33.	Mr.R.Gayathri	Assistant Professor	M.Tech

16. Number of faculty with ongoing projects from a) National, b) International funding agencies and grants received

Academic Year	Name of the funding agency applied	Name of the project	Principal investigator/co-investigator's name	Amount of grants received
2009-10	AICTE- RPS	Artificial Intelligent based Tsunami Alert System Duration: Two Years	Mr.S.Ganesh Vaidyanathan Dr.R.Amutha	Rs. 4,02,500/-

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received nil

18. Research Centre / facility recognized by the University -Anna University - Renewed up to April 2015

19. Publications:

- A) Publication per faculty
- Number of papers published in peer reviewed journals (national/international) by faculty and students
- Number of publications listed in International database (eg. Web of Science, Scopes, Humanities, International – Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.)
- Monographs
- Chapter in Books
- Books edited
- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- SNIP
- SJR
- Impact factor
- H-index

Sl. No.	Name of the faculty	Title	Journal name	Indexing	Impact factor
1	Dr.R.Amutha	Design and Performance Analysis of 16-ary Triangular Quadrature Amplitude modulation	Journal of Hybrid Computing Research, 2009	-	0
2	Dr.N.Venkateswaran	Design and Performance Analysis of 16-ary Triangular Quadrature Amplitude modulation	Journal of Hybrid Computing Research, 2009	-	0
3	Mr.Ganesh Vaidyanathan S	An approach for resolving occluded data based on stochastic optimization techniques	Journal of Multiple valued Logic and Soft Computing, Vol -15, Issue No-5-6, pages 569-579 -2009	Science Citation Index Expanded (SciSearch), CompuMath Citation	0.343

				Index, Mathematical Reviews and Mathscinet	
4	Mr.D.Dhanasekaran	ASIC implementation and analysis of Extrinsic EHW based power and Area optimized 8bit Asynchronous parallel MAC	International journal of computer science and network Security, Vol 9.No1 Jan 2009	Proquest	0
5	Mr.D.Dhanasekaran	High Speed Pipelined Architecture for Adaptive Median Filter	European journal of scientific research” Vol.29, No.4, Apr’ 2009	ISI, Thomson Reuters and Scopus	0.736
6	Mr.G.A.Sathish Kumar	A Hardware Implementation of Winograd fourier Transform algorithm for cryptography	Ubiquitous computing and communication Journal 2009	Proquest,Ulr ichs,Cite SeerX	0
7	Mr.Ganesh Vaidyanathan S	A Maximum margin classifier for non-linearly separable pattern classes using a feature space sampling technique, applied to chromosome classification	International Journal of Biomedical Engineering and technology Jan 2010	Scopus,EI,C SA,Scirus	H-5
8	Mr.G.A.Sathishkumar	Medical Image Encryption Using Chaos Mapping For Teleradiology Applications	International Journal Of Bio Informatics, Vol. 1NO. 2 July-Dec 2010	-	0
9	Mr.G.A.Sathishkumar	Image encryption based on diffusion and multiple Chaotic Maps	International Journal of Network Security and its applications Vol. 3 No. 2 March 2011	Scribd,Scirus,Inspec,Cite seerX ,Cross Ref and ERA	0.302
10	Mr.G.A.Sathishkumar	A Novel algorithm for	Elsevier Proceedia of	Scopus	0

		Image encryption by integrated pixel scrambling plus diffusion	Computer Science Vol. 3pp. 378-387		
11	Ms.H.Umma Habiba	Tunable EBG – Embedded Multimode resonators for UWB –Dual band, Lower-UWB and Upper – UWB Applications	IET Microwave ,Antennas & Propagation 2011	Scopus,	0.789
12	Ms.P.Sasikala	An efficient concept-based mining model for deriving user Profiles	International Journal of Applied Information Systems Feb 2012	Cross Ref	0
13	Mr.G.A.Sathish kumar	A Novel Algorithm for Crypto key Generation By Unification Of Encoding Plus Image Pixel Shuffling and Chaotic Blended Blum Blum Shub Generator And Its Applicability in Image Based Cryptosystems	European Journal of Scientific Research Vol.55 No.2 , pp.301-313, July 2011.	ISI, Thomson Reuters and Scopus	0.736
14	Ms.G.A.Sathish kumar	A Novel Image Encryption Algorithm Using Pixel Shuffling and BASE 64 Encoding Based Chaotic Block Cipher	WSEAS transaction on computers Issue 6, Volume 10, pp 169-178, June 2011.	ISI, ACM, Zentralblatt EI, Ulrich and Scopus	H 10
15	Ms.H.Umma habiba	Simulation of Ultra Wide band (UWB) Defected Ground Planes Using ADS and Performance Analysis	Arabian Journal for Science and Engineering October 2012	EBSCO ,CSA and Scopus	0.243

20. Areas of consultancy and income generated nil

21. Faculty as members in

- a) National Committees, b) International Committees c) Editorial Boards
nil

22. Student projects

- a) Percentage of students who have done in-house projects including inter-departmental / programme
b) Percentage of students placed for projects in organizations outside the Institution, ie. in Research Laboratories/Industry/other agencies

Academic year	Program	Total students	No of students done in-house projects	No of students done Research Laboratories/Industry projects	% of in-house projects	% of Research Laboratories/Industry projects
2012-2013	UG	122	83	39	68.03%	31.97%
2011-2012	UG	136	93	43	68.38%	31.62%
2010-2011	UG	125	93	32	74.40%	25.60%
2009-2010	UG	134	118	16	89.55%	10.45%
2012-2013	PG	24	13	11	54.16%	45.8%
2011-2012	PG	24	20	4	83.3%	16.6%
2010-2011	PG	22	16	6	72.7%	27.3%
2009-2010	PG	15	13	2	86.7%	13.3%

23. Awards/Recognitions received by faculty and students

❖ Staff Award:

- Mrs. R.Kousalya has received the 'Best Teacher Award' by the College management for the year 2009.

❖ Student Recognitions and Award

RANGACHARY AWARD

ACADEMIC YEAR	NUMBER OF STUDENTS FROM EC WHO RECEIVED RANGACHARY AWARD
2009-10	1
2010-11	1
2011-12	1

Students Sponsored for International Conferences

S.No.	Name of the Student	Dept.	Name of the Conference	Academic	Amount	Country
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				Year	in Rs.	
1	Swaminathan D , V Sathya Narayana	ECE	International Conference on Intelligent Information Technology Application, Nanchang	2009-2010	18,000	China
2	Nivethitha S	ECE	EMS 2009,UKSim, 3 rd European modeling symposium on computer modeling and simulation,Athens, Greece	2009-2010	30,000	Athens Greece
3	Mathew Cherian C	ECE	12 th International conference on computer Modelling and Simulation,UKSIM 2010, Cambridge, Emanuel College,London	2009-2010	1,00,000	UK Cambridge
4	S Balasundaram	ECE	International conference on wireless communications, Networking and Mobile computing, China	2010-2011	76250	China
5	Karthik Kalyanaraman, B Jaykrishna	ECE	International conference on Electrical Engineering and Applications 2010, USA	2010-2011	19866	San Francisco, USA
6	Hemalatha Elango	ECE	International Conference on Physics science and technology(ICPST), China	2010-2011	17820	Hongkong , China
7	Bharat Vijay	ECE	International conference on fisheries and aquatic sciences 2010, Singapore	2010-2011	47978	Singapore
8	Arjun A M	ECE	International conference on Applied Mathematics and Computational Science(WASET), Paris	2011-2012	97670	Paris,France
9	A R Ravi Prakas, S Ratan Vishwanath, Prateik George	ECE	International Conference on Information and Electronics Engineering	2012-2013	3,24,000	Singapore

2. Sports

Academic Year 2009-2010

ANNA UNIVERSITY ZONE II TOURNAMENT

BADMINTON – WOMEN – WINNERS

1. H.AISHWARYA - IV ECE

BASKETBALL – MEN- THIRD PLACE

1. K.PRASHANTH - III ECE

TABLE TENNIS – MEN - WINNERS

1. DINESH KANNAN - II ECE

2. S.L.AVINASH - III ECE

CRICKET - WINNERS

1. S.AJAY - II ECE

Academic Year 2010-2011

Men

BASKETBALL - WINNERS
 TABLE TENNIS - WINNERS
 FOOTBALL - RUNNERS
 BADMINTON - THIRD POSITION
 CHESS - RUNNERS

BASKETBAL - WINNERS

1. K.PRASANTH - IV ECE

TABLE TENNIS - WINNERS

1. DINESH KANNAN - III ECE

CHESS - RUNNERS

1. K.ATHAVAN - III ECE

ZONAL ATHLETICS - MEN

S.NO	NAME – YEAR/ BRANCH	EVENT/POSITION
1	S.RAM VINOTH III ECE	LONG JUMP- I HIGH JUMP- I TRIPLE JUMP- I

WOMEN

S.NO	NAME - YEAR / BRANCH	EVENT/ POSITION
1	K.NITHIL A II ECE	SHOT PUT – II DISCUS THROW – III

ALL INDIA INTER UNIVERSITY TOURNAMENTS

The following are the students selected to represent Anna University in the Inter University tournaments

1. DINESH KANNAN.K - III ECE - 2010-11 - TABLE TENNIS

TIES 2011

MEN - CHESS - THIRDPOSITION

1. K.ATHAVAN - III ECE

Academic Year 2011-2012

ANNA UNIVERSITY ZONAL TOURNAMENT RESULTS-2011-12

TABLE TENNIS-WINNERS

K.DINESH KANNAN - IV ECE

CRICKET-RUNNERS

RAHUL KANNAN - III ECE

PRASHANTH.S - III ECE

V.SHRIRAM - III ECE

S.AJAY - IV ECE

E.DILEEP KUMAR REDDY - III ECE

FOOTBALL -RUNNERS

ANBAZHAZAN.M - IIIECE

MEN

ATHLETICS-

S.RAM VINOD-IV ECE.

LONG JUMP - I PLACE

High JUMP - I PLACE

TRIPLE JUMP - I PLACE

110 MTS HURDLES - II PLACE

ATHLETICS (W)

NITHILA .K-III ECE

SHOT PUT - I PLACE

DISCUSS THROW- I PLACE

ANNA UNIVERSITY INTER ZONAL TOURNAMENT-2011-12

TABLE TENNIS-RUNNERS

1. K.DINESH KANNAN-IV ECE

1. **S.Ram Vinodh of IV ECE** secured Gold medal in Triple Jump and Silver medal in Long Jump in the **Inter Zonal Athletic meet** held at Nehru Stadium on 6th & 7th December 2011

2. **Nithila of III ECE** secured Gold medal in shot-put and silver medal in discus Throw in the same meet.
3. Dinesh Kannan IV ECE represented Anna University in the SOUTH ZONE INTER UNIVERSITY Table Tennis tournament held on 10th & 11th October 2011 at Amritha University, Coimbatore.
4. Our student **M. Lakshmi Priya III ECE** representing Tamilnadu at the National Level Net ball tournament held at Haridwar (Uttarkhand) from 13/03/12

Academic Year 2012-2013

Sports Achievements of the Year 2012-2013

ANNA UNIVERSITY ZONE II TOURNAMENT

- | | | | |
|-----|------------------|---|----------------|
| 1. | BASKETBALL (W) | - | WINNERS |
| 2. | TABLE TENNIS (W) | - | WINNERS |
| 3. | FOOTBALL | - | WINNERS |
| 4. | TABLE TENNIS | - | WINNERS |
| 5. | CRICKET | - | RUNNERS |
| 6. | HOCKEY | - | RUNNERS |
| 7. | CHESS | - | RUNNERS |
| 8. | BASKETBALL | - | RUNNERS |
| 9. | HANDBALL | - | THIRD POSITION |
| 10. | TENNIS | - | THIRD POSITION |
| 11. | BADMINTON (W) | - | THIRD POSITION |

BASKETBALL – WOMEN - WINNERS

- | | | | |
|----|-----------------|---|--------|
| 1. | K.NITHILA | - | IV ECE |
| 2. | M.LAKSHMI PRIYA | - | IV ECE |

FOOTBALL –WINNERS

- | | | | |
|----|---------------|---|---------|
| 1. | VIGNESH RAMJI | - | III ECE |
|----|---------------|---|---------|

TABLE TENNIS – WINNERS

- | | | | |
|----|---------|---|-------|
| 1. | KAUSHIK | - | I ECE |
|----|---------|---|-------|

CRICKET-RUNNERS

- | | | | |
|----|--------------|---|--------|
| 1. | RAHUL KANNAN | - | IV ECE |
| 2. | PRASHANTH.S | - | IV ECE |

3. V.SHRIRAM - IV ECE
4. AVUSUTHAN - III ECE

BASKETBALL-RUNNERS

1. IMTHIAZ - III ECE

CHESS – RUNNERS

1. PALANIAPPAN - III ECE

BADMINTON – WOMEN- THIRD POSITION

1. SRUTHI - I ECE
2. NITHILA - IVECE
3. LAKSHMI PRIYA - IV ECE

ATHLETICS RESULTS

MEN

S.NO	NAME	BRANCH	EVENT	POSITION
1	SIDDHARTH	I ECE	DISCUS THROW	II POSITION

WOMEN

S.NO	NAME	BRAANCH	EVENT	POSITION
1	LAKSHMI PRIYA	IVECE	4X100 M RELAY	II POSITION

ACHIEVEMENT IN SPORTS DURING ODD SEMESTER

S.No	Semester	Name of the Student	Event	Venue	Date	Recognitions/ Awards
1	V sem A	Nithila k	Shot put	Jawaharlal Nehru stadium ,CEG	01-11-11 to 02-11-11	First place
2	V sem A	Nithila k	Discus Throw	Jawaharlal Nehru stadium ,CEG	01-11-11 to 02-11-11	Second place
3	V sem A	Nithila k	Hammer Throw	Jawaharlal Nehru stadium ,CEG	01-11-11 to 02-11-11	Third place

ACHIEVEMENT IN SPORTS DURING EVEN SEMESTER

S.No	Semester	Name of the Student	Event	Venue	Date	Recognitions/ Awards
1	IV Sem A	Nithila k	Shot put	AU Zonal Meet, SVCE	01-10-10 to 02-10-10	Second place
2	IV Sem A	Nithila k	Discus Throw	AU Zonal Meet, SVCE	01-10-10 to 02-10-10	Third place
3	VI sem A	Athavan K	Chess	SVCE	22-02-11	Third place
4	IV Sem A	Nithila k	Shot put	Annual sports, SVCE	23-03-11	First place
5	IV Sem A	Nithila k	Discus Throw	Annual sports, SVCE	23-03-11	First place
6	IV Sem A	Nithila k	4 x 100 mts Relay	Annual sports, SVCE	23-03-11	First place
7	IV Sem A	Nithila k	Javelin Throw	Annual sports, SVCE	23-03-11	Third place
8	IV Sem A	Lakshmi Priya M	Net ball	Chennai seven star Netball Association	16-04-11 to 20-04-11	Winner

24. List of eminent academicians and scientists / visitors to the department

Date	Title of the Lecture	Name of the speaker & Details
29.08.2009	Electronic Convergence-Wave and its implications	Mr.PravinShekhar, CEO, Dexterity Business Analysts MRKPO.
31.07.2009	Vital signs of Identity - RFID and Biometrics	Mr.Prabhakara Rao Scientific Officer (G), Head, Security Electronics Section, Electronics & Instrumentation Division, IGCAR, Kalpakkam.
11.04.2009	VLSI Design - Lecture 3	Prof V. R. Seshadri Distinguished Visiting Professor, INAE Director, Technical, Xambala Inc.
01.04.2009	Amateur Radio	Mr.P.Thiagarajan CEO M/s.AccuspeedEngg Ltd.
07.03.2009	VLSI Design – Lecture 2	Prof.V.R.Seshadri Visiting Professor, Xampala
26.02.2009	VLSI Design – Lecture 1	Prof.V.R.Seshadri Visiting Professor,

		Xampala
05.02.2009	Nano-Technology	E.M.S Sri Jeevan
27.01.2009	Leadership	Mr.Sumanth Head of PMO, HCL
29/08/2009	Electronic Convergence-Wave and its implications	Mr.PravinShekhar, CEO, Dexterity Business Analysts MRKPO.
31/07/2009	Vital signs of Identity - RFID and Biometrics	Mr.Prabhakara Rao Scientific Officer (G), Head, Security Electronics Section, Electronics & Instrumentation Division, IGCAR, Kalpakkam.
30/12/2009	Opportunities in a Smarter Planet.	Mr.SubramaniRamakrishnan, Delivery project Executive, IBM, Chennai.
8/1/2010	Recent Trends in Mobile Communication and Handset Development.	Mr.EzhilMayilVahanan, Test Architect, Sony Ericsson, Sweden.
18/1/2010	Embedded System-Applications and Job Opportunities.	Mr.Sunder Manager(Technical), Sands Instruments Private Limited, Chennai.
26/3/2010	Applications of Artificial Neural Networks	Dr.H.Ranganathan Professor & Head SakthiMariammanEnggCollege,Thandalam
20/07/2010	DSP in Consumer and Automotive Electronics	Mr.S.Balakrishnan, Head, Digital Home Operations, Jasmin Info Tech Pvt. Ltd. 98404 10338
13/08/2010	Going Vertical: From More Than Moore to Even Mo(o)re	DrMadhavanSwaminathan Professor, Georgia Tech
21/09/2010	3G Services	Mr J Sanathanakrishnan BSNL (Retd) 94440 01323
05/01/2011	Evolution of Wireless Broadband Technology/Road to 4G	Dr M J Narasimha Senior Director of Technology, QualComm, USA (650) 723-4243
25/03/2011	Advanced Technologies for Modern	Dr.P.Hanumantha Rao Head, Antenna Division, SAMEER, Chennai

	Communication	
25/07/11	Current Trends in Non Computational Electronics	Shri. Rajesh Kunnath Founder – Radio Studio
18/08/11	Open the GATE	Dr. K.Giridhar (Professor,EEDept,IIT-M)
18/08/11	The Semiconductor Industry- Opportunities Galore	Smt. ChithraHariharan (Vice President,Concept2Silicon Systems)
26/09/11	Recent Trends of Electronics in Automobiles	Shri. N.S.Ramanathan Head, Advance Engg, Lucas TVS, Chennai
12/01/12	Mobile Communication	Mr.P.Deivasigamani Vice President-Aircel(South),Chennai
22/02/12	Sensor Networks- Challenges and Applications	Dr.PadmanabanRamasamy Principal Consultant,NexGTech Research Labs,Chennai
22/03/12	FPGA Design VLSI in Avionics	Mr.S.Balaji Associate General Manager, HCL Technologies,Chennai Mr.A.Ravikumar Deputy General Manager, HCL Technologies,Chennai
23/7/12	Evolution of Mobile telephony	Name:Mr.Balaji Jayaraman Designation: Sr.Technical Lead Company: Telcordia Contact Nos. 9176670087
6/8/12	Modern Broadcasting methods in India	Name: N.Murali Designation: Assistant Engineer Company: All India Radio Contact Nos 95001 13150
28/8/12	Green Mobile Revolution	Dr.Prithivi Raj Designation: Principal College: Pondicherry Engineering college
28/8/12	Digital Communication in IT Industry	Mr.Muthu Prakash Ravindran Designation: Project Manager Company: Computer Sciences Corporation(I) Pvt.Ltd Contact Nos 91 984-055-2644

12/9/12	Introduction to Labview	Name:Mr.R.C.Ganesh Designation: Field Application Engineer Company: Trident Tech Labs
17/10/12	Principles of Pattern Recognition	Dr.S.Ganesh Vaidyanathan Designation:Professor,HOD-EC College: SVCE
11/1/13	Vector Network Analyzers and Spectrum Analyzers - Measurement Basics	Mr.A.Senthil Designation: General Manager Company: Vigven Tech Mark Pvt Ltd Email: senthil@vigven.com
23/1/13	[continuation of last lecture] Live demo on Measurement Basics in Network analyzers and Spectrum analysers	Mr.A.Senthil Designation: General Manager Company: Vigven Tech Mark Pvt Ltd Email: senthil@vigven.com
14/2/13	Electronic System Design	Prof.R.Narayanan Designation:Professor,HOD-EC College: T.John Institute of Technology,Bangalore. Email: kasinaran@gmail.com
15/2/13	DSP from a Different and Simpler Perspective	Dr.Arulalan Rajan Designation: CEDT College: Indian Institute of Science,Bangalore Email: perarulalan@gmail.com

25. Seminars/Conferences/Workshops organized and the source of funding

- a) National
- b) International

S. No.	Name of the Seminar/Conference/Workshop	Date	Sponsored
1.	FDP on Latest Trends in EDA Communication Electronics and VLSI Technology in association with Trident TechLabs Pvt. Ltd	13.02.2013	SVCE in association with M/s Trident Techlabs
2.	National Workshop on "Research Methodologies and New directions in Signal Processing"	03.04.13 & 04.04.13	SVCE
3.	Two day course on Instrument servicing and Recent technologies in Electronics and Communication field for supporting staff	04.12.2012 & 05.12.2012	SVCE
4.	Department of Electronics and Information technology sponsored workshop on "Design and development of UWB components for wireless applications"	14.09.2012 & 15.09.2012	DeitY in association with SVCE

5.	Workshop on “Design and development of RF components and subsystems for communication applications”	09.03.2012	SVCE
6.	Two day Workshop on “Latest Telecommunication Technology”.	24.02.2012 25.02.2012	SVCE
7.	Workshop on emerging technologies in Telecommunication	06/01/2011 to 08/01/2011	SVCE
8.	Workshop on FPGA design flow	03/02/2011 and 04/02/2011	SVCE
9.	National Level Conference on the topic “Signal Processing, Communication and Networking”	30.03.2010 & 31.03.2010	IEEE Madras Section
10.	National Level Conference on the topic “Next generation Communication system and techniques”	19/04/2011 and 20/04/2011	SVCE
11.	National Level Conference on the topic “Signal Processing, Communication and Networking”	03/04/2012 and 04/04/2012	SVCE

26. Student profile programme/course wise:

Name of the Course/Programme (refer question no. 4)	Applications received	Selected	Enrolled M* F*	Pass percentage
B.E ECE Batch 2012			133	92
B.E ECE Batch 2011			132	92
B.E ECE Batch 2010			131	90
B.E ECE Batch 2009			127	84
M.E Communication systems Batch 2012			12	83
M.E Communication systems Batch 2011			17	100
M.E Communication systems Batch 2010			25	100
M.E Communication systems Batch 2009			24	100

- M- Male F-Female

27. Diversity of Students

Name of the Course	% of students from the same State	% of students from Other States	% of students from abroad

28. How many students have cleared national and state competitive examinations such as .NET, SLET, GATE, Civil Services, Defence Services, etc.?

29. Student progression

Student progression	%			
	2009-2010	2010-2011	2011-2012	2012-2013
UG to PG	23.1	25.9	25.62	19.28
PG to Ph.D.				
Employed	64.65	91.22	100	78.76
• Campus selection				
• Other than campus recruitment				

30. Details of Infrastructural facilities

a) Library

The library has an excellent collection of 500 journals and magazines in all the disciplines with open access to the students. These are used very effectively by the students.

- IEEE (Institute of Electrical and Electronics Engineers) Online Journals.
- ACM (Association for Computing Machinery) Journals, New York
- ASME Online Journals

b) Internet facilities for Staff & Students

- Fibre optic and wireless link
- Internet and intranet facility for all departments
- 24 × 7 internet facility
- Internet through BSNL – 1 Mbps
- Internet through VSNL – RF 256 kbps
- Exclusive email facility -@svce.ac.in

c) Classrooms with ICT facility

Two class rooms are provided with ICT facility.

d) Laboratories

The ECE Department has the following laboratories:

- Electronic Devices & Integrated Circuits Laboratory
- Microprocessor Laboratory
- Software Laboratory

- Communication Systems Laboratory
- Microwave and Fiber Optics Laboratory
- Digital Signal Processing Laboratory
- Networks Laboratory
- VLSI Laboratory

Academic Year	Type Of Scholarships	Number of Students from EC Who Aailed Scholarships
2009-10 Odd Sem	Economic Means	9 UG + 1 PG
	Merit Cum Means	3 UG
	Merit	3 UG + 1 PG
	NCC	2 UG
	Sports	2 UG
	Books & Instruments	16 UG +1 PG
2009-10 Even Sem	Economic Means	3 UG
	Merit Cum Means	3 UG
	Merit	3 UG + 1 PG
	NCC	-
	Sports	3 UG
2010-11 Odd Sem	Economic Means	7 UG
	Merit Cum Means	3 UG + 1 PG
	Merit	3 UG +1 PG
	NCC	-
	Sports	2 UG
	Books & Instruments	10 UG + 3 PG
2010-11 Even Sem	Economic Means	3 UG
	Merit Cum Means	3 UG + 1 PG
	Merit	3 UG +1 PG
	NCC	-
	Sports	2 UG
2011-12 Odd Sem	Economic Means	5 UG
	Merit Cum Means	3 UG
	Merit	3 UG + 1 PG
	NCC	-
	Sports	3 UG
	Books & Instruments	6 UG + 1 PG
2011-12 Even Sem	Economic Means	4 UG +1 PG
	Merit Cum Means	3 UG
	Merit	3 UG + 1 PG
	NCC	1 UG
	Sports	3 UG
2012-13 Odd Sem	Economic Means	9 UG + 1 PG
	Merit Cum Means	3 UG + 1 PG
	Merit	3 UG + 1 PG
	NCC	-
	Sports	-
	Books & Instruments	6 UG + 1 PG

- 31) Number of students receiving financial assistance from college, university, government or other agencies

AICTE FEE WAIVER /AICTE PG GRANT

ACADEMIC YEAR	NUMBER OF STUDENTS FROM EC WHO AVAILED
2009	
2010	
2011	1 PG
2012	
2013	9

GOVERNMENT COMMUNITY SCHOLARSHIPS

ACADEMIC YEAR	NUMBER OF STUDENTS FROM EC WHO AVAILED CENTRAL /STATE GOVT SCHOLARSHIPS
2009	6 UG
2010	
2011	22 UG
2012	
2013	

LAPTOP SCHEME

ACADEMIC YEAR	NUMBER OF STUDENTS FROM EC WHO RECEIVED LAPTOPS
2009	3
2010	2
2011	5
2012	4

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Date	Department	Title of the Lecture	Name of the speaker & Details	No of participants
Academic year 2008-09				
29.08.2009	EC	Electronic Convergence-Wave and its implications	Mr.PravinShekhar, CEO, Dexterity Business Analysts MRKPO.	120
31.07.2009	EC	Vital signs of Identity - RFID and Biometrics	Mr.Prabhakara Rao Scientific Officer (G), Head, Security Electronics Section, Electronics & Instrumentation Division, IGCAR, Kalpakkam.	130
11.04.2009	EC	VLSI Design - Lecture 3	Prof V. R. Seshadri Distinguished Visiting Professor, INAE Director, Technical, Xambala Inc.	120

01.04.2009	EC	Amateur Radio	Mr.P.Thiagarajan CEO M/s.AccuspeedEngg Ltd.	125
07.03.2009	EC	VLSI Design – Lecture 2	Prof.V.R.Seshadri Visiting Professor, Xampala	120
26.02.2009	EC	VLSI Design – Lecture 1	Prof.V.R.Seshadri Visiting Professor, Xampala	120
05.02.2009	EC	Nano-Technology	E.M.S Sri Jeevan	130
27.01.2009	EC	Leadership	Mr.Sumanth Head of PMO, HCL	120
Academic year 2009-10				
29/08/2009	EC	Electronic Convergence- Wave and its implications	Mr.PravinShekhar, CEO, Dexterity Business Analysts MRKPO.	120
31/07/2009	EC	Vital signs of Identity - RFID and Biometrics	Mr.Prabhakara Rao Scientific Officer (G), Head, Security Electronics Section, Electronics & Instrumentation Division, IGCAR, Kalpakkam.	120
30/12/2009	EC	Opportunities in a Smarter Planet.	Mr.SubramaniRamakrishnan, Delivery project Executive, IBM, Chennai.	130
8/1/2010	EC	Recent Trends in Mobile Communication and Handset Development.	Mr.EzhilMayilVahanan, Test Architect, Sony Ericsson, Sweden.	120
18/1/2010	EC	Embedded System- Applications and Job Opportunities.	Mr.Sunder Manager(Technical), Sands Instruments Private Limited, Chennai.	130
26/3/2010	EC	Applications of Artificial Neural Networks	Dr.H.Ranganathan Professor & Head SakthiMariammanEnggCollege,Thandalam	120
Academic year 2010-11				
20/07/2010	EC	DSP in Consumer and Automotive Electronics	Mr.S.Balakrishnan, Head, Digital Home Operations, Jasmin Info Tech Pvt. Ltd. 98404 10338	120
13/08/2010	EC	Going Vertical: From More Than Moore to Even Mo(o)re	DrMadhavanSwaminathan Professor, Georgia Tech	125
21/09/2010	EC	3G Services	Mr J Sanathanakrishnan BSNL (Retd) 94440 01323	120
05/01/2011	EC	Evolution of Wireless Broadband Technology/Road to 4G	Dr M J Narasimha Senior Director of Technology, QualComm, USA (650) 723-4243	125
25/03/2011	EC	Advanced Technologies for Modern Communication	Dr.P.Hanumantha Rao Head, Antenna Division, SAMEER, Chennai	120

Academic year 2011-12				
25/07/11	EC	Current Trends in Non Computational Electronics	Shri. Rajesh Kunnath Founder – Radio Studio	120
18/08/11	EC	Open the GATE	Dr. K.Giridhar (Professor,EEDept,IIT-M)	120
18/08/11	EC	The Semiconductor Industry- Opportunities Galore	Smt. ChithraHariharan (Vice President,Concept2Silicon Systems)	130
26/09/11	EC	Recent Trends of Electronics in Automobiles	Shri. N.S.Ramanathan Head, Advance Engg, Lucas TVS, Chennai	120
12/01/12	EC	Mobile Communication	Mr.P.Deivasigamani Vice President-Aircel(South),Chennai	130
22/02/12	EC	Sensor Networks- Challenges and Applications	Dr.PadmanabanRamasamy Principal Consultant,NexGTech Research Labs,Chennai	120
22/03/12	EC	FPGA Design VLSI in Avionics	Mr.S.Balaji Associate General Manager, HCL Technologies,Chennai Mr.A.Ravikumar Deputy General Manager, HCL Technologies,Chennai	110
Academic year 2012-13				
23/7/12	EC	Evolution of Mobile telephony	Name:Mr.Balaji Jayaraman Designation: Sr.Technical Lead Company: Telcordia Contact Nos. 9176670087	200
6/8/12	EC	Modern Broadcasting methods in India	Name: N.Murali Designation: Assistant Engineer Company: All India Radio Contact Nos 95001 13150	142
28/8/12	EC	Green Mobile Revolution	Dr.Prithivi Raj Designation: Principal College: Pondicherry Engineering college	200
28/8/12	EC	Digital Communication in IT Industry	Mr.Muthu Prakash Ravindran Designation: Project Manager Company: Computer Sciences Corporation(I) Pvt.Ltd Contact Nos 91 984-055-2644	200
12/9/12	EC	Introduction to Labview	Name:Mr.R.C.Ganesh Designation: Field Application Engineer Company: Trident Tech Labs	127
17/10/12	EC	Principles of Pattern Recognition	Dr.S.Ganesh Vaidyanathan Designation:Professor,HOD-EC College: SVCE	132
11/1/13	EC	Vector Network Analyzers and Spectrum Analyzers - Measurement Basics	Mr.A.Senthil Designation: General Manager Company: Vigven Tech Mark Pvt Ltd Email:senthil@vigven.com	70
23/1/13	EC	[continuation of	Mr.A.Senthil	25

		[last lecture] Live demo on Measurement Basics in Network analyzers and Spectrum analysers	Designation: General Manager Company: Vigven Tech Mark Pvt Ltd Email: senthil@vigven.com	
14/2/13	EC	Electronic System Design	Prof.R.Narayanan Designation:Professor,HOD-EC College: T.John Institute of Technology,Bangalore. Email: kasinaran@gmail.com	150
15/2/13	EC	DSP from a Different and Simpler Perspective	Dr.Arulalan Rajan Designation: CEDT College: Indian Institute of Science,Bangalore Email: perarulalan@gmail.com	150

33. Teaching methods adopted to improve student learning

- Lecture method and Interactive learning:
- Project-based learning:
- Computer-assisted learning:
- Experimental learning:
- Seminars:
- EDUSAT and EKLAVYA programmes
- Multimedia for various skills development,
- ICT usage such as smart board with data storage facility, remote pointer etc.,
- OHP
- Guidance to the students to access NPTEL for learning material.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities - NIL

35. SWOC analysis of the department and future plans

Strength:

Approved Research Centre by Anna University, Chennai

Accredited by NBA

Has ISO Certification

Both students and Teacher has access to leading Journals both soft copy and hard copy

Has major equipments under Research Labs

Weakness:

Less Number of Funded Projects

Revenue from external consultancy needs to be improved

Limited research publication

Opportunities:

Readiness of leading industries to collaborate with institution through MOU

Good demand for the courses that we conduct

Funding by various organization encouraging research

Threats:

High Manpower Turnover

Future Plans:

To Develop Computer Based Teaching Material for atleast one course in each semester

To set up an R&D facility in our department in the emerging areas.

To upgrade our present laboratories (Software, Microprocessor and Micro controller, Communication, Microwave and Optical, Devices) to the state of art and removal of obsolescence

To conduct two National, one International Conference(s) and two Workshops per year. –

To provide LCD Projector in every class room

To invite eminent Professors from abroad for conducting workshops

Evaluative Report of the Departments

Department: **ELECTRICAL AND ELECTRONICS ENGINEERING**

1. Name of the department: ELECTRICAL AND ELECTRONICS ENGINEERING
2. Year of Establishment: 1994
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

PROGRAMME	COURSE	NATURE
UG-Under Graduate	Electrical and Electronics Engineering – B.E.	Full Time
PG-Post Graduate	Power Electronics and Drives – M.E.	Full Time Part Time
Ph.D. – Electrical Engineering	Nodal Research Centre of Anna University, Chennai.	Part Time – External

4. Names of Interdisciplinary courses and the departments/units involved

Names of Interdisciplinary courses / Semester			Department Involved
SUBJECT CODE	SUBJECT NAME	SEMESTER	(Department Name in Full)
ODD Semester			
HS2111	Technical English – I	I	Humanities & Social Sciences
MA2111	Mathematics – I	I	Applied Mathematics
PH2111	Engineering Physics – I	I	Applied Physics
CY2111	Engineering Chemistry – I	I	Applied Chemistry
GE2111	Engineering Graphics	I	Mechanical Engineering
GE2112	Fundamentals of Computing and Programming	I	Information Technology
GE2115	Computer Practice Laboratory-I	I	Information Technology
MA 2211	Transforms and Partial Differential Equations	III	Applied Mathematics
GE 2211	Environmental Science and Engineering	III	Chemical Engineering
EE 2204	Data Structures and Algorithms	III	Computer Science Engg.
EE 2209	Data Structures and Algorithms Laboratory	III	Computer Science Engg.
CS2311	Object Oriented Programming	V	Computer Science Engg.
CS2312	Object Oriented Programming Laboratory	V	Computer Science Engg.
GE2321	Communication Skills Laboratory	V	Humanities & Social Sciences
CS2411	Operating Systems	VII	Computer Science Engg.
EVEN Semester			
HS2161	Technical English – II	II	Humanities & Social Sciences
MA2161	Mathematics – II	II	Applied Mathematics
PH2161	Engineering Physics – II	II	Applied Physics
CY2161	Engineering Chemistry – II	II	Applied Chemistry
GE2152	Basic Civil & Mechanical Engineering	II	Civil Engineering Mechanical Engineering

GE2155	Computer Practice Laboratory-II	II	Information Technology
GS2165	Physics & Chemistry Laboratory - II	II	Applied Physics Applied Chemistry
MA2264	Numerical Methods	IV	Applied Mathematics
EE2252	Power Plant Engineering	IV	Mechanical Engineering
CS2363	Computer Networks	VI	Computer Science Engg.

5. Annual/ semester/choice based credit system (programme wise)
 - a) Both under graduate and post graduate programs are semester based credit system
 - b) Ph.D. – Part Time – External Program is choice based credit system
6. Participation of the department in the courses offered by other departments

SEMESTER	SUBJECT CODE	SUBJECT NAME	DEPARTMENT SERVED
ODD Semester			
I	GE2116	Engineering Practices Lab	To all Departments except Marine Engineering
III	EC2201	Electrical Engineering	Electronics and Communication Engineering
III	ME2205	Electrical Drives and Controls	Chemical Engineering
III	CH 2208	Basic Electrical Electronics Engineering Lab	Chemical Engineering
III	ME2205	Electrical Drives and Controls	Mechanical Engineering
III	ME2209	Electrical Engineering Lab	Mechanical Engineering
III	MV 2202	Marine Electrical Machine – I	Marine Engineering
V	MV2309	Electrical Engg., Electronics & Microprocessor Lab	Marine Engineering
VII	MV2402	Marine Electrical Technology	Marine Engineering
EVEN Semester			
II	GE2151	Basic Electrical & Electronics Engineering	Automobile, Biotechnology, Civil, Chemical, Marine & Mechanical Engineering Departments
IV	EC2259	Electrical Engineering & Control Systems Lab	ECE
IV	MV 2254	Marine Electrical Machines – II	Marine Engineering

7. Courses in collaboration with other universities, industries, foreign institutions, etc. NIL
8. Details of courses/programmes discontinued (if any) with reasons: NIL

9. Number of Teaching posts

	Sanctioned	Filled
Professors	2	2
Associate Professors	6	4
Asst. Professors	18	27

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided (ing) for the last 4 years
Dr.KR.Santha	Ph.D.	Professor and Head of the Department	Digital Signal Processing and VLSI Design	21	4
Dr.M Gopalakrishnan	Ph.D	Professor & Director (Alternative Energy)	Electrical Engg, Power system, HV Engg.	29 yrs	4
S.Sundararaman	M.S	Associate Professor	Electrical Engineering	Teaching: 10 Industry: 17	---
R.Karthikeyan	M.E.	Associate Professor	Power Systems	18	---
Sudhakar K Bharatan	Ph.D.	Associate Professor	Semiconductor devices, Nanotechnology	10	---
Chaya Kulkarni	M.S. (Electronics & Control)	Assistant professor	Electronics & Control	25.5(teaching) 5 years & 3 months	---
S.G.BharathiDasan	M.E	Associate Professor	Power Systems Engineering	11	---
V.Sivagami	M.E.(PED)	Assistant Professor	Power Electronics & Drives	10	---
C.Venkatesan	M.Tech.	Assistant Professor	Electrical Energy Systems	9	---
S.S.Sethuraman	M.E.	Assistant professor	Power Electronics and Drives	Teaching: 12.6 Industry: 1.6	---
T.Annamalai	M.E.	Assistant professor	Power Electronics and Drives	11.6	---
D. Amudhavalli	M.E. (Power Electronics and Drives)	Assistant Professor	Power Electronics and Drives	11 years 8 months	---
D.Kavitha	M.E	Assistant professor	Power Electronics and Drives	11 years	---
S.Kumaravel	M.E.	Assistant professor	Power Systems	8	---
M.Sasikala	M.E	Asst. Professor	Power Electronics and drives	8 years	---
N.Shanmuga Vadivu	M.E	Asst. Professor	Power Electronics and	8 years	---

			drives		
S Sumalatha	M.E.	Asst. Prof.	Power Electronics and Drives	8 Years 9 months	---
Arulmozhi S	ME	Assistant Professor	Power Electronics & Drives	9 yrs, 8months	---
A.Tamizhselvan	M.E.	Assistant Professor	Power Electronics & Drives	Teaching: 6 Industry: 1.3	---
S.Anitha	M.E.	Assistant Professor	Applied Electronics	Teaching: 1.5 Industry:3.5	---
R.Srinidhi	M.Tech.	Assistant Professor	Power Electronics	1.5	---
D.S.Purushothaman	ME	Assistant Professor	POWER ELECTRONICS AND DRIVES	1.5	---
S.Lavanya	BE	Assistant Professor	Electrical Electronics Engineering	5 YEARS& 2 MONTHS	---
S.Sudharsanam	M.E.	Assistant Professor	Power Electronics & Drives	6 Years 10 Months	---
M Ranjithkumar	M E	Assistant Professor	Power Electronics & Drives	3 Years	---
S.V.Nagalakshmi	M.E.	Assistant Professor	Power Electronics & Drives	1 Year 10 Months	---
I.Venkatraman	M.E.	Assistant Professor	Power Electronics & Drives	10 months	---
S.Sinthamani	M.E	Asst.Prof	Power Electronics and Drives	Industrial-2yrs Teaching-3.10Years	---
K S Pavithra	M.E	Asst.Prof	Electronics Engineering	Industrial-03 yrs Teaching- 2.4 yrs	---
G. Aarthi	M.E	Asst.Prof	Power Electronics and Drives	Industrial-1yrs Teaching- 10 months	---
K.Suganthi*	M.E.	Assistant Professor	Power Electronics & Drives	9 Years 6 Months	---
C.Suganthi*	M.E.	Assistant Professor	Power Electronics & Drives	2 Years 10 Months	---
V.Jayashri*	B.E.	Assistant Professor	Electrical Electronics Engineering	2 Years	---

* On Long Leave

11. List of senior visiting faculty: NIL
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty

YEAR AND SEMESTER	NUMBER OF TEMPORARY FACULTY	PROGRAMME (UG/PG)	% OF LECTURES DELIVERED	% OF PRACTICAL CLASSES
2010-Odd	1	UG	4	20
2010-Even	1	UG	3.5	16.7

13. Student -Teacher Ratio (programme wise) (VS)

PROGRAMME	STUDENT-TEACHER RATIO	NORMS AS PER
UG	1:14	1:15 AICTE
PG	1:12	1:12 AICTE

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled (VS)

STAFF NATURE	SANCTIONED	FILLED
Academic Support Staff (Technical)	8	8
Administrative Staff	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.

QUALIFICATION	NUMBER
D.Sc.	NIL
D.Litt.	NIL
Ph.D.	3
M.Phil.	NIL
PG	28

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received.

AICTE funded Rs. 9,00,000 under MODROB scheme to establish modernization of Power electronics Laboratory during the period 2010

18. Research Centre /facility recognized by the University

Department of Electrical and Electronics Engineering has been recognized as a Nodal research centre by the Anna University, Chennai and currently 8 students are pursuing their research under Part Time mode under the proficient guidance of two research supervisors.

19. **Publications:**

a) Publication per faculty

1. Number of papers published in peer reviewed journals (national / international) by faculty and students

YEAR	JOURNAL PUBLICATIONS [#]	
	NATIONAL	INTERNATIONAL
2009	-	3
2010	-	5
2011	1	3
2012	3	16
2013	---	3

The List is furnished below

1) 2009

S.No	Author name	Date	Paper title	Journal	SJ E	SNI P	CITATION INDEX	H-INDEX	IMPACT FACTOR
1.	Mr.N.Senthilmurgan	Vol . 2 No 2 July – Dec 2009	A simple on – chip multi – level logic minimization technique with essential applicants	International journal of computer science, systems engineering & information technology	0	0	0	0	3.87
2.	Mr.M.Prabhakar	Vol . 3 No 7 July 2009	Selection criteria & analysis of LCC resonant DC-DC converters for automotive applications	Modern applied sciences	0	0	0	0	
3.	Ms.S.Arulmozhi	Vol . 3 No 7 July 2009	Selection criteria & analysis of LCC resonant DC-DC converters for automotive applications	Modern applied sciences	0	0	2	1	

2) 2010

S.No	Author name	Date	Paper title	Journal	SJE	SNIP	CITATION INDEX	H-INDEX	IMPACT FACTOR
1.	Mr. M.Prabhakar	Vol. 56 Issue. 4 Jul- Aug 2010	Analysis and implementation of LCC Resonant DC-DC Converter for Automotive application	IETE Journal of Research	0	0	0	0	1
2.	Mr.M.Prabhakar	Vol. 2(1) Jan –Jun 2010	Implementation of soft switched converters for automotive applications.	International journal of electrical engineering & embedded systems	0	0	0	0	1
3.	Mr.R.Karthikeyan	September 2010	Study on Switched Reluctance Generator for Rural Electrification	International Journal of Computer Applications (0975 – 8887), Volume 6– No.3, Pages: 11-17	0	0			1.5
4.	Ms. S. G. BharathiDasan	Vol. 6,No. 2 ISSN :1614 – 7138, pp.163-188 Apr – Jun 2010	Optimal siting and sizing of hybrid distributed generation using fuzzy – EP	International journal of distributed energy resources	0	0	0	0	
5.	Ms. S. G. BharathiDasan	Vol. 10 Edition 4 pp. 63-70 2010	Steady state analysis of grid connected wind energy conversion systems	Journal of Electrical engineering	0.036	0.796	0	0	0.78

3) 2011

S.No	Author name	Date	Paper title	Journal	SJE	SNIP	CITATION INDEX	H-INDEX	IMPACT FACTOR
1.	Mr.M.Prabhakar	Vol. 3(1) Jan-June 2011	Modified voltage multiplier cell based DC-DC converter for automotive application	International Journal of Electrical Engineering and embedded systems	0	0	0	0	1
2.	Mr.D.Elango van	April-May 2011	Soft switched DC-DC converter with current and voltage doubler	IJSJET SVCE Journal	0	0	0	0	
3.	Mr. R. Karthikeyan	Volume 11/2011 – Edition : 4 ISSN 1582-4594	Analysis and Characterization of a Switched Reluctance Machine using Soft Magnetic Material	Journal of Electrical Engineering, Politechnia Publisher House – Romania	0	0			0.967
4.	Ms.S.V.Nagalakshmi	Volume II / Issue IV Oct / Nov 2011, E-ISSN 0976-3945	Optimal Location of STATCOM to improve Voltage Stability using PSO	International Journal of Advanced Engineering Technology	0	0	0	0	

4) 2012

S.No	Author name	Date	Paper title	Journal	SJE	SNIP	CITATION INDEX	H-INDEX	IMPACT FACTOR
1.	Dr. KR.Santha	ISSN No.0988-0382E, vol.1, issue 4 March 2012	Implementation of Digital PID Feedback Controller for a Buck Converter	International Journal of Communication and Engineering	0	0	6	2	3.95
2	Dr. KR.Santha	vol.2, issue 4, pp. 499-504 July-August 2012.	Maze Based Data Hiding using Back Tracker Algorithm	International Journal of Engineering research and Applications	0	0	6	2	2.3
3	Dr.M.Gopalakrishnan	ISSN NO 0988-0382E Volume 06-No.6, Issue: 01	Single Inductor Triple-Output Switching Converter in Continuous Conduction Mode	International Journal of Communications and Engineering	0	0	0	0	3.95
4	Dr.M.Gopalakrishnan	Volume 12-2012- Edition 2-Article, ISSN 1582-4594 February 2012	A Half-Bridge dual output converter with an asymmetric PWM and FM-LCC control	Journal of Electrical Engg.	0.036	0.796	0	0	0.967
5	Mr.K.Sundararaman	ISSN NO 0988-0382E Volume 06-No.6, Issue: 01 March 2012	Single Inductor Triple-Output Switching Converter in Continuous Conduction Mode	International Journal of Communications and Engg.	0	0	0	0	3.95
6	Mr.K.Sundararaman	Volume 12-2012-	A Half-Bridge	Journal of	0.036	0.796	0	0	0.967

		Edition 2-Article, ISSN 1582-4594 February 2012	dual output converter with an asymmetric PWM and FM-LCC control	Electrical Engg.					
7	Mr.R.Karthikeyan	ISSN 1450-216X Vol.83 No.4 (2012), pp.545 – 557.	Performance Analysis of a Soft Magnetic Composite Switched Reluctance Generator	European Journal of Scientific Research	0.033	0.493			0.736
8	Mr.R.Karthikeyan	Vols. 383-390 (2012) pp 5516-5521.	Soft Magnetic Composite Switched Reluctance Generator-Fabrication and Analysis	Advanced Materials Research	0.030	0.158			0.03
9	Mr.S.G.Bharathidasan	vol 10, No. 3, pg 409-421 July 2012	Optimal Power Flow with Hybrid Distributed Generators and Unified Controllers	TELKOMNIKA	0	0	0	0	5.02
10	Mr.S.G.Bharathidasan	Engineering Vol. 12/2012, Edition 1, pp. 188-195 March 2012	FACTS based voltage Enhancement hybrid DG distribution system with mixed load model	Journal of Electrical Engineering	0.036	0.796	0	0	0.967
11	Mr.S.G.Bharathidasan	ISSN:1974-9821	Enhancement of	International	0	1.199	0	0	1.199

		December 2012; Volume 5, no.6	Small Signal Stability of Power System with Hybrid DGs Using FACTS Controller	Review on Modelling and Simulations					
12	Mr.T.Annamalai	March 2012	Z source inverter for interfacing with PV cells	International Journal of Communication Engineering	0	0	0	0	3.95
13	Mr.T.Annamalai	March 2012	Single phase Stand Alone Inverter for photovoltaic system	Bonfring International Journal – special issue	0	0	0	0	
14	Ms.D. Kavitha	Volume 3 – No. 3, Issue: 01, ISSN No. 0988-0382EMarch 2012	Interleaved DC – DC converter with an active clamp capacitor	International journal of Electronics and Communication	0.057	1.408	0	0	0.057
15	Ms.S.Sumalatha	Volume 3 – No. 3, Issue: 01ISSN No. 0988-0382EMarch 2012	Interleaved DC – DC converter with an active clamp capacitor	International journal of Electronics and Communication	0	0	0	0	1
16	Ms.S.Sumalatha	volume1,Issue01August 2012	Design and Implementation of high performance stand-alone photovoltaic lighting system.	International Journal of Electrical and Electronics engineering	0	0	0	0	
17	Ms.N.Shanmugavadivu	Volume1,Issue 5 November 2012	Modified Approach for Harmonic	International Journal of Science,	0	0	0	0	

			Reduction in Multilevel Inverter	Engineering and Technology Research (IJSETR)					
18	Ms.N.Shanmugavadivu	March 2012	Single phase Stand Alone Inverter for photovoltaic system	Bonfring International Journal – special issue	0	0	0	0	
19	Mr.I.Venkatraman	March 2012	Z source inverter for interfacing with PV cells	International Journal of Communication Engineering	0	0	0	0	

5) 2013

S.No	Author name	Date	Paper title	Journal	SJE	SNIP	CITATION INDEX	H-INDEX	IMPACT FACTOR
1	Dr.KR.Santha	(Review Comments received and is under progress)	An Efficient Implementation of the Kalman Filter for Joint Channel Estimation and Data Detection	International Journal of Circuit Theory and Applications, Wiley Interscience.	0.083	2.306	0	0	1.63
2	Mr.S.G.Bharathidasan	ISSN: 1450-216x Volume 94 No.3 Pg: 382-396 Jan 2013	Small Signal Stability Analysis of Grid Connected WECS with FACTS Controllers	European Journal Of Scientific Research	0.033	0.493	0	0	0.736
3	Mr.T.Annamalai	February 2013	Utilization of hybrid energy sources for uninterrupted constant (fixed) power applications	International Journal of Engineering Research and Technology(IJERT	0	0	0	0	

NOTE: The impact factor and other indices are that provided by the respective authors of the paper.

The List is furnished below

2012

SL.No	Student Name	Year	Section	Paper Presentation Details	Venue
1	Hariharan.J	III	A	Presented a Paper in the conference EXURO'12 held at S.A Engineering College, Chennai on 23/08/2012	S.A Engineering College, Poonamalle – Avadi Main Road, Thiruverkadu, Chennai – 600 077.
2	S Balasubramanian	III	A	Presented a Paper in National conference EXURO'12 held at S.A Engineering College, Chennai on 23/08/2012	S.A Engineering College, Poonamalle – Avadi Main Road, Thiruverkadu, Chennai – 600 077.
3	PreethaKumari V	IV	B	Presented a Paper titled “ An interleaved soft switching boost converter using MPPT for photo voltaic power generation” in the international conference on INFORMATION COMMUNICATION & EMBEDDED SYSTEMS (ICICES'13) organized by the Department of PG studies in Engineering on 21/02/2013 & 22/02/2013.	S.A Engineering College, Poonamalle – Avadi Main Road, Thiruverkadu, Chennai – 600 077.
4	S.Imaya	IV	A	Presented a Paper titled “ An interleaved soft switching boost converter using MPPT for photo voltaic power generation” in the international conference on INFORMATION COMMUNICATION & EMBEDDED SYSTEMS (ICICES'13) organized by the Department of PG studies in Engineering on 21/02/2013 & 22/02/2013.	S.A Engineering College, Poonamalle – Avadi Main Road, Thiruverkadu, Chennai – 600 077.
5	Vignesh S R	IV	B	Presented a Paper Titled “Morphology and Synaptic Characteristics Based Prediction of Visual Cortex Spike Properties for Different Functions” in INCF Neuroinformatics 2012 at Munish, Germany During 10/09/2012 To 14/09/2012	Munish, Germany
6	Vignesh S R	IV	B	Presented a Paper Titled “A Space Time Energetics Model for Intracellular Organelles of a Single Neuron to Link Morphology with the Functions of a Brain Specific Region” in Bernstein Conference 2012, Munish, Germany During 10/09/2012 To 14/09/2012	Munish, Germany
7	Vignesh S R	IV	B	Published a Journal Titled “Energetics based spike generation of a single neuron: simulation results and analysis” in frontiers in NEUROENERGETICS During 01/02/2012	frontiers in NEUROENERGETICS

2011

SL.NO	Name of the Students	Year	Section	Paper Presentation Details	Venue
1	Vignesh S R	IV	B	Presented a Paper Titled "Single Neuron Development – A Neurogenesis Inspired Structure Generation Model" in Fourth INCF Congress of Neuroinformatics at Boston, USA During 04/09/2011 To 06/09/2011.	Boston, USA
2	N.Aarthi	IV	A	Presented a paper titled "EA Based tuning of PSS for small signal stability analysis of Power System" in National Conference in Advances in Electrical & Electronics Engineering,NCAEEE at Sri Venkateswara College of Engineering,Sriperumbudur- 2012	Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur- 2012
3	H R S Aiswarya	IV	A	Presented a paper titled "EA Based tuning of PSS for small signal stability analysis of Power System" in National Conference in Advances in Electrical & Electronics Engineering,NCAEEE at Sri Venkateswara College of Engineering,Sriperumbudur- 2012	Sri Venkateswara College of Engineering,Pennalur, Sriperumbudur- 2012
4	AshwathAnand	IV	A	Presented a paper titled "EA Based tuning of PSS for small signal stability analysis of Power System" in National Conference in Advances in Electrical & Electronics Engineering,NCAEEE at Sri Venkateswara College of Engineering,Sriperumbudur- 2012	Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur- 2012
5	Nandhini	IV	A	Presented a paper titled "EA Based tuning of PSS for small signal stability analysis of Power System" in National Conference in Advances in Electrical & Electronics Engineering,NCAEEE at Sri Venkateswara College of Engineering,Sriperumbudur- 2012	Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur- 2012

2010

S.No	Name	Paper Presentation Details	Date
1	K.Sweetha B.SureshKarthik	Paper presentation titled" A Soft Switched DC-DC Converter with Current Doubler" in fifth national conference on Power Electronics and Drives at Allagappa chettiar college of Engineering and Technology , Karaikudi.	9/03/2011
2	P.D. Dharmesh	Presented a paper titled "Power Density of DC to DC converter" in India International Conference on Power Electronics at Nethaji Subhas Institute of Technology, New Delhi.	28/01/2011
3	P.D. Dharmesh	Presented a paper titled "Power Density Maximization of DC to DC Converter" in International Conference on Electrical Energy Systems at SSN College of Engineering, Kalavakkam, Chennai.	03/01/2011
4	B. Santosh	Presented a Paper Titled "Contingency ranking using voltage stability indices" in (Electrical)	2011

		Quark 2011 at BITS Pilani, GOA.	
5	P.D. Dharmesh	Presented a paper titled “Power Density Maximization of DC to DC Converter & Soft Switched DC to DC Converter with HV Gain” in International Knowledge Carnival at VIT University, Vellore.	17/09/2010
6	P.D. Dharmesh	Presented a paper titled “Design and Fabrication of Solar-Bio Diesel Reactor”(Mechanical) in Quark 2010 at BITS Pilani, GOA.	August 2010
7	P.D. Dharmesh	Presented a paper titled “Fuzzy Logic based Control of Three Phase Induction Motor” in Eupraxia '10 at SSN College of Engineering, Kalavakkam, Chennai.	31/08/2010
8	P.D. Dharmesh	Presented a paper titled “Cracking the position of Nibiru planet by divine proportion Theory” in GENERIX '10 at RMD Engineering College, Kavaraipettai, Chennai.	16/08/2010
9	P.D. Dharmesh	Presented a paper titled “High Gain DC to DC Converter with Protection Circuit” in ILLUMINARE'10 at VELTECH Engineering College, Avadi, Chennai.	25/08/2010
10	Deepak Biyyapu	Presented a Paper Titled “ Live Brain Signal Telecasting Using Advanced Neuro Imaging Techniques “in National Conference on Advances in Electrical and Electronics Engineering at Sri Venkateswara College of Engineering, Sriperumbudur.	21/01/2010
11	Ayshwarya.V	Presented a Paper Titled “Implementation of Multi-Agent Systems for Relay Interoperability and Coordination” in National Conference on Advances in Electrical and Electronics Engineering at Sri Venkateswara College of Engineering, Sriperumbudur.	21/01/2010
12	S. Kiran Kumar	Presented a paper titled “New Multi-Level Converter Topology with minimum number of Gate Drive Circuits” in PROCYON 10 at Anand Institute of Higher Technology, Chennai.	10/03/2010
13	A. Nagarajan	Presented a paper titled “Power Density Maximization” in Eupraxia 2010 at SSN College of Engineering, Kalavakkam, Chennai.	31/08/2010
14	S. Manimaran	Presented a paper titled “Solar Cell Powered Bio Diesel Reactor” in Eupraxia 2010 SSN College of Engineering, Kalavakkam, Chennai.	31/08/2010
15	S. Manimaran	Presented a paper titled “High Gain DC to DC Converter” in MINZAAR '10 at VELTECH Engineering College, Avadi, Chennai.	24/08/2010
16	S. Manimaran	Presented a paper titled “Power Density Maximization” in PROCYON 10 at Anand Institute of Higher Technology, Chennai.	10/03/2010
17	E. Mahesh Kumar	Presented a paper titled “High Gain DC to DC Converter” in Eupraxia 2010 at SSN College of Engineering, Kalavakkam, Chennai.	31/08/2010

2009

S.No	Name	Paper Presentation Details	Date
1	P.D. Dharmesh	Presented a paper titled “Single Stage BOOST Converter for HB LED” in EupraXia '09 at SSN College of Engineering, Kalavakkam, Chennai.	01/09/2009

2. Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Students

YEAR	PUBLICATIONS LISTED IN INTERNATIONAL DATABASE
2009	1
2010	1
2011	1
2012	3

- Monographs: NIL
 - Chapter in Books: NIL
 - Books Edited : NIL
 - Books with ISBN/ISSN numbers with details of publishers: NIL
 - Citation Index
 - SNIP
 - SJR provided along with the list of publications by faculty
 - Impact factor
 - h-index
20. Areas of consultancy and income generated
- AMIE Laboratory course training every year with a grant of Rs.1000 for a student.

- Permission granted to the use of state of the art Magnet software for a Ph.D. student on per day basis chargeable with Rs.1000 per day (Rs.3000 received as usage charges for three days use of software)

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards....

Professor Dr.M.Gopalakrishnan has served as Member of Board of Studies of erstwhile Anna University of Technology, Chennai during the period 2010-2011.

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme

YEAR	% OF STUDENTS (In-house Projects)
2009	58
2010	63.15
2011	62.5
2012	77

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

YEAR	% OF STUDENTS (Outside Projects)
2009	42
2010	36.84
2011	37.5
2012	23

23. Awards/ Recognitions received by faculty and students

2009

Mr.M.Prabakar received Best Teacher Award

2010

Dr.M.Gopalakrishnan received 20 years long service award

2011

1. PG Project by Ms.N.Priyanka guided by **Dr. KR.Santha**, titled , 'A Boost Converter with an Active Clamp Circuit for High Intensity Discharge Lamp Application' received the Innovative Student Projects Award - 2011 by the Indian National Academy of Engineering (INAE), Delhi.
2. UG Project by Mr.Vijay Karthick guided by **Dr. KR.Santha**, titled , 'SMART-The Automated Food Concocter' received the Innovative Student Projects Award - 2011 by the Indian National Academy of Engineering (INAE), Delhi

2012 - 2013

1. **Dr. Sudhakar K Bharatan**, Associate Professor, EEE won a cash prize of Rs. 1000 for his presentation on "single walled carbon nanotube synthesis using plasma enhanced chemical vapor deposition for optoelectronic and ballistic applications" on faculty research day (16/03/13)
2. S.AARTHY, DIVYA SRIDHARAN, G. GOMATHI, from EEE IV yr A sec, mentored by **Ms .G.AARTHI (AP/EE)** won I prize in presentation on stage contest held on student research day (07/03/13)
3. R MURALIKRISHNAN,N PHANEENDRA BOYAPATI,M MOHAMMAD IMRAN,MUKESH, from EEE II yr A sec, mentored by **Mr. A TAMIZHSELVAN (AP/EE)** won second prize in poster contest held on student research day (07/03/13)
4. ANIRUDH VASUDEVAN, M G CHANDRASEKAR, from EEE IV yr A sec, mentored by **Mr. D. S. PURUSHOTHAMAN (AP/EE)** won first prize in model making contest held on student research day (07/03/13)

Awards/ Recognitions received by Students (BEST INAE PROJECT AWARDS TO BE INCLUDED AND SENT BY ATS)

2009

S.No	Name	Awards	Date
1	P.D. Dharmesh	Participated and received First Prize in innovision event at eSPRIT'09 the National Level Technical Symposium at Prathyusha Institute of Technology.	11/03/2009
2	Ashwathy	Participated in Solo Dance Event and won Third Prize in CHEMFEST'2009 held at Chengalpattu Medical College, Chengalpattu.	08/09/2009
3	Ashwathy	Participated in Adapt To the Tune Event and won Third Prize in CHEMFEST'2009 held at Chengalpattu Medical College, Chengalpattu.	08/09/2009

4	P.Pramila	Presented a Paper and won Second prize in GENERIX-AUG'09 held at RMD Engineering College, Kavaraipaettai, Chennai.	31/08/2009
5	M.Preetha	Presented a Paper and won Second prize in GENERIX-AUG'09 held at RMD Engineering College, Kavaraipaettai, Chennai.	31/08/2009
6	M.Preetha	Won First prize in the Event Group Discussion in GENERIX-AUG'09 held at RMD Engineering College, Kavaraipaettai, Chennai.	31/08/2009
7	Santhoshi	Participated in Mini-Pro Mini-Cum Event and won the second prize in Eupraxia'09 held at SSN College of Engineering, Kalavakkam, Chennai.	01/09/2009
8	S.Dinesh Kumar	Presented a Paper and won the first prize in Phantom'09 held at Saraswathi Velu College of Engineering, Sholingar, Vellore.	04/04/2009
9	Rithika.M	Won first prize in the Event POT-POURRI in Techofes'09 held at CEG, Anna University, Chennai.	23/02/2009
10	Vasundhara Chakraborty	Won first prize in the Event POT-POURRI in Techofes'09 held at CEG, Anna University, Chennai.	23/02/2009
11	Rithika.M	Won Third prize in POT-POURRI Event in Instincts'09 held at SSN College of Engineering, Kalavakkam, Chennai.	07/03/2009
12	Vasundhara Chakraborty	Won Third prize in POT-POURRI Event in Instincts'09 held at SSN College of Engineering, Kalavakkam, Chennai.	07/03/2009
13	S.Gayathri V.Lavanya Praveena.N Preethi Theresa Xavier	Received Best Project Award for "Facts Based voltage profile improvement in distribution system with mixed load model"	April 2010

2010

S.No	Name	Awards	Date
1	P.D. Dharmesh	Participated and received First prize in Quiz at the National Level Mathematical Symposium JET SIGMA '10 at St.Joseph College of Engineering.	20/02/2010
2	P.D. Dharmesh	Participated and received Third prize in Circuit Debugging at the National Level Technical Symposium PRATIYOG '10 at Jeppiar Engineering College .	6/03/2010
3.	P.D. Dharmesh	Participated and received First Prize in Quiz of the National Level Technical Symposium,"TECHNOFESTA ELECTRIZER 2010" at SreeSastha Institute of Engineering and Technology,Chennai.	4/03/2010
4	P.D. Dharmesh	Participated and received First prize in Technical Quiz event in the ILLUMINARE'10 organized by VELTECH Engineering College, Avadi, Chennai.	25/08/2010
5	P.D. Dharmesh	Participated in online Quiz and received First prize in National Level Technical Symposium ORACLE'X' at GCT Coimbatore.	12/03/2010
6	P.D. Dharmesh	Participated and received First prize in Technical Quiz at the National Level Technical Symposium PRATIYOG '10 at Jeppiar Engineering College.	6/03/2010
7	P.D. Dharmesh	Participated in Treasure Hunt and received First prize in ELCTRO FOCUS '10 a National Level Technical Symposium at MIT Chennai.	19/3/2010
8	ShaileshPanigrahy	Participated and received second Prize in working model event in National Level Technical SymposiumPULSE'10 at SVCE, Chennai.	28/08/2010
9	ShaileshPanigrahy	Participated and received third Prize in project display event in National Level Technical SymposiumSPANGLES'10 at EASWARI engineering college, Chennai.	3/09/2010
10	Lakshmi Narayanan .S	Participated and received Third prize in CROP CIRCLES at PRAGYAN '10 in international techno-management festival at NIT , Trichy	2010
11	Lakshmi Narayanan .S	Participated and received First prize in the event Time Machine at KURUKSHETRA'2010 in international techno-management festival at College of Enginnering ,GuindyAnnaUniversity	20/01/2010
12	G.Mahesh Kumar	Participated and received Third prize in Circuit Debugging at the National Level Technical Symposium PRATIYOG '10 at Jeppiar Engineering College.	8/03/2010
13	G.Mahesh Kumar	Participated and received Third prize in AD ZAP in PROCYON 10 at Anand Institute of Higher Technology, Chennai.	10/03/2010
14	G.Mahesh Kumar	Participated and received second prize in PAPYRUS TECHNOWER event in national level technical symposium SCADZ'10 at VEL TECH Engineering college , Chennai.	13/08/2010
15	Karthik	Participated and received First prize in treasure hunt event in national level student symposium at St.Joseph college of Engineering, Chennai.	25/09/2010

16	S.Meenakshi	Participated and received first prize in circuit debugging in national level technical symposium, INTEGRITY '10 at Government college of Engineering, Tirunelveli.	5/03/2010
17	Vijay Karthick.B Saranya.M Swaminathan.S	Received Best Project Award for “Smart-The automated food concoctor”	April 2011

2011

SL No.	Name of the Students	UG Awards	CGPA	CLASS
1	Vivian Paul Gonsalves	Received Devaki Muthiah Endowment Award for outstanding UG student. Has been awarded Cognizant Brand Ambassador for enthusiastic Performance and participation. Won I prize in Curtain Call (Dramatics) at UNMAAD' 12, conducted by IIM, Bangalore. Won III Prize in the event Scavenger Hunt at Saarang 2011, IIT Madras. Won III Prize in the event Treasure Hunt at Saarang 2011, IIT Madras. Has been awarded as the Best Speaker at the Landmark, City Centre, R.K.Salai, Chennai.	9.05	First Class With Distinction
2	CUO B Giri Balaaji	Outstanding NCC Cadet award for the Academic Year 2011 – 2012	7.45	First Class
3	Siva Kumar M Vasanth R Vignesh Kumar G	Received Best Project Award for “Human Arm Controlled Remote Robotic Arm”		

SL No.	Name of the Students	Class & Section	PG Awards	CGPA	CLASS
1	M.R.Vijayashree	M.E PED	Outstanding student Award for the Academic Year 2011-2012.	8.78	First Class With Distinction

2012

S.No	Name	Awards	Date
1	Ganesh V	Won Third Prize in Poster presentation in the student's Research Day contest at Sri Venkateswara College of Engineering	07/03/2013
2	Ganesh V	Participated and Secured the First Prize in Working Model in the Association's (AEEE) annual National level Technical symposium PULSE 2012 at Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur	27/08/2012
3	Ganesh V	Won First Prize in Poster presentation in the student's Research Day contest at Sri	07/03/2013

		Venkateswara College of Engineering	
4	Ganesh Ranganath	Won First Prize in Poster presentation in the student's Research Day contest at Sri Venkateswara College of Engineering	07/03/2013
5	Ganesh Ranganath	Won Third Prize in Poster presentation in the student's Research Day contest at Sri Venkateswara College of Engineering	07/03/2013
6	S.Balasubramanian	Participated and won the First Prize in the event Circuit Debugging in National Level Technical Symposium RESURGAM' 13 organized by Department of Electrical & Electronics Engineering at Panimalar Engineering College, Varadharajapuram, Nasarathpettai, Ponamallee, Chennai – 60 123	16/02/2013
7	Mukesh M	Won Second Prize in Poster presentation in the student's Research Day contest at Sri Venkateswara College of Engineering	07/03/2013
8	R. Murali Krishnan	Won Second Prize in Poster presentation in the student's Research Day contest at Sri Venkateswara College of Engineering	07/03/2013
9	N.PhanendraBoyapati	Won Second Prize in Poster presentation in the student's Research Day contest at Sri Venkateswara College of Engineering	07/03/2013
10	Mathubala.D	Participated as Finalists in Poster presentation in the student's Research Day contest at Sri Venkateswara College of Engineering	07/03/2013
11	K.R.Arjun	Ranked as CADET & Adjudged First in FIRING held During NCC Day celebrations at Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur .	10/03/2012

24. List of eminent academicians and scientists/visitor's to the department

YEAR	VISITOR'S DETAILS	PURPOSE
2009	Mr.A.Raja Rajan, Associate Project Manager, HCL, Chennai	To Deliver Guest Lecture
	Mr.S.Ganesh kumar, Application Engineering, National Instruments	To Deliver Guest Lecture
	Dr.Ramki Srinivasan, President Corporate Development, Orient Greed Power Limited.	To Deliver Guest Lecture
	Mr.M.Kannappan, General Manager, BHEL	To Deliver Guest Lecture
	Mr.A.Dayalan, Manager, Vestas Wind Technology (I) Pvt. Ltd.	To Deliver Guest Lecture
	Mr.Badri Seshadri, MD, New Horizon Media.	To Deliver Guest Lecture
	Dr.A.Krishna Vasudevan, Professor, Electrical Engineering Department, IITM Chennai.	To Deliver Guest Lecture
	B.Ramaswamy, Corporate Manager	To Deliver Guest Lecture
2010	M/S ACCEL IT Academy, Nungambakkam, Chennai.	To conduct workshop and to give guest lecture
	Neyveli Lignite Corporation & TNEB.	To conduct workshop and to give guest lecture

	M/S Pantech Solutions Private Limited and M/S Tech Lab, Chennai.	To conduct workshop and to give guest lecture
	Mr.Shankaran, Chief Engineer, Marine Industry.	To Deliver Guest Lecture
	Prof. Krishnamachar Prasad, Professor, Auckland University of Technology, Australia.	To Deliver Guest Lecture
	Mr.Bharath Kumar, L&T/Switch Gear,Chennai.	To Deliver Guest Lecture
	Dr.R.Jayasri, Lecturer, University of New South Wales, Sydney.	To Deliver Guest Lecture
	Mr.Tilakraj Seth,Vice President,SIEMENS India Limited.	To Deliver Guest Lecture
	Dr.Narashimhan Sundararajan, Nanyang Technological University, Singapore.	To Deliver Guest Lecture
	Mr.B.G.Mallya, Chief Design Engineer, ICF, Chennai.	To Deliver Guest Lecture
2011	Mr.V.Jagadeesan, General Manager, BSNL, Chennai Telecoms, Chennai.	To Deliver Guest Lecture
	Dr.Murali Varanasi, Professor, North Texas University, USA.	To Deliver Guest Lecture
	Mr.N.Kannan, Training Faculty, MECTON Energy India Limited, Chennai.	To Deliver Guest Lecture and To conduct Workshop
	Dr.Salivahanan, Principal, SSN College of Engineering, chennai.	To Inaugurate Pulse 2011 – A National Level Technical Symposium and To Deliver Guest Lecture
	Mr.G.V.R.Rao, Vice President, SIEMENS India Limited, Chennai.	To Inaugurate Activities of AEEE and To Deliver Guest Lecture
	Mr.Sp.Ramanathan, Senior Application Engineer, Enixs Technology India Private Limited	To Deliver Guest Lecture and To conduct Workshop
	Dr.Maheshkumar, Professor, IIT/EEE, Chennai.	To Deliver Guest Lecture
	Mr.Sukumara, GSV Microtech, Porur, Chennai.	To Deliver Guest Lecture
	Dr.PremanandChandramani, Professor/ECE, SSNCE, Kalavakkam, Chennai.	To Deliver Guest Lecture
2012	Dr.V.Vaidhehi /Head of the Information Technology Department/ Madras Institute of Technology, Chennai.	Inauguration Function
	Dr.Madan Mohan/Associate Scientist /ABB Pvt. Ltd., Chennai.	PULSE 12 Symposium
	Dr.T.Thayagarajan/ Professor , Instrumentation Engineering Department/ Madras Institute of Technology, Chennai.	Guest Lecture
	Dr.Shanti Swarup, Prof., IIT Madras	National Conference(NCAEEE)

25. Seminars/ Conferences/Workshops organized & the source of funding

a)National

YEAR	CONFERENCE	SOF	WORKSHOP	SOF
2010	NCAEEEE – National Conference on Advances on Electrical and Electronics Engineering, 21 st and 22 nd of January 2010	From management of SVCE- Rs 32000 From Sponsor, Vestas Technologies-Rs 24750 Through Participants DD-Rs 9750 Total Expenditure- Rs 36809	Workshop on Non-Conventional Energy Sources 24.08.2010	From Participants: Rs. 27,000 (Rs. 500/- each)
2011	NCAEEEE – National Conference on Advances on Electrical and Electronics Engineering, 18 th and 19 th of February 2011	From management of SVCE- Rs 15000 From Sponsor, Numeric power systems-Rs 29400 Through Participants DD-Rs 8000 Total Expenditure- Rs 44662	Workshop on Introduction to VLSI Design 18.03.2011 & 19.03.2011	From Participants: Rs. 47400 (Rs. 600/- each)
2012	NCAEEEE – National Conference on Advances on Electrical and Electronics Engineering, 17 th and 18 th of February 2012	From management of SVCE- Rs 30000 From Sponsor, GSV Microtech-Rs 10000 Through Participants DD-Rs25000 (out of 35500) Total Expenditure- Rs 64202	Image Processing Frame Work using FPGA 03/02/2012 & 04/02/2012	From Participants: Rs. 61500 From Management: Rs.10000
			Electrical Drawings, Types and Applications 07/01/2012	From Participants: Rs. 5600 From Management: Rs.5000
2013	NCAEEEE – National Conference on Advances on Electrical and Electronics Engineering, 1 st and 2 nd of March 2013	From management of SVCE- Rs 45000 Through Participants DD-Rs41250 Total Expenditure- Rs 58291	PLC based SCADA Automation	From Management: Rs.2000
			DSP System Design using TI Processor and FPGA	From Registration: Rs.27000 From Management: Rs.25000
			Power Electronics Converters for Wind Energy Conversion Systems Topics Covered: 1.) Power Electronics Converters for WECS 2.) Overview of WECS 3.) WECS – Recent Advancements 4.) Grid Integration of WECS	Net Amount from Registration: Rs.15000 From Management: Rs.15000

SOF- Source of Funding

b)International – NIL

26. Student profile programme/course wise: (Partial Data available and office will provide data to NAAC2013 coordinator)

Name of the Course/programme (refer question no. 4)	Year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
B.E./Electrical and Electronics Engineering	2009					93.75
	2010					97.69
	2011					94.77
	2012					90.78
M.E./Power Electronics and Drives	2009					70
	2010					100
	2011					100
	2012					100

*M=Male F=Female

27. Diversity of Students (SVCE Office will furnish this information to NAAC head)

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
B.E.		95.81	4.02	0.16
M.E		100	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

Year	No. of Students cleared national and state competitive examinations
2009	7
2010	6
2011	7
2012	8

29. Student progression

Student progression	Against % enrolled (2009 Passed out)	Against % enrolled (2010 Passed out)	Against % enrolled (2011 Passed out)	Against % enrolled (2012 Passed out)
UG to PG	7.8	15.9	20.14	8.5

Student progression	Against % enrolled (2009 Passed out)	Against % enrolled (2010 Passed out)	Against % enrolled (2011 Passed out)	Against % enrolled (2012 Passed out)
PG to M.Phil.	--	--	--	--
PG to Ph.D.	--	--	--	--
Ph.D. to Post-Doctoral	--	--	--	--
Employed				
• Campus selection	65.62	54.54	70.15	74.46
• Other than campus recruitment	26.56	29.55	9.7	17.02
Entrepreneurship/Self- employment	--	--	--	--

30. Details of Infrastructural facilities

a) Library:

Department Library has reference books for which access to faculty and staff is provided.

b) Internet facilities for Staff & Students

- All Laboratory Computers, Computers in faculty rooms, and Computers in EEE office are provided with internet facility.
- Students can access internet through Computers available in Laboratory. Student Laptops are Wi-Fi enabled on the requirement basis. EEE Department Laptop is Wi-Fi enabled.

c) Class rooms with ICT facility

One class room is provided with smart board and another class room houses LCD projector.

d) Laboratories

Six laboratories including computing laboratory as per AICTE norms have been established to cater to the Laboratories specified by the Anna University, Chennai, duly certified by the inspection teams of Anna University whose distribution and details are furnished in the following table.

Laboratory identification/ Location/block/floor/ room number		Odd semester laboratory courses conducted				Even semester laboratory courses conducted			
		Subject code	Subject name	Branch	Semester/year/ hours per week	Subject code	Subject name	Branch	Semester/year/ hours per week
I-ac machine s lab	Svce/eee/gr ound floor/2002	Ee2259	Electric machines laboratory-i	Eee	Iii/ii/12	Ee2257	Control system laboratory	Eee	Iv/ii/12
		Me2209	Electrical engineering laboratory	Mechanical	Iii/ii/12	Ec2259	Electrical engineering and control system laboratory	Ece	Iv/ii/12
Ii-dc machine s lab	Svce/eee/gr ound floor	Ch2208	Basic electrical electronics engineering lab	Chemical	Iii/ii/12	Ee2305	Electrical machines ii laboratory	Eee	Iv/ii/12
		Mv2309	Electrical engg., electronics & microproce ssor lab	Marine	Iii/ii/6				
Iii- power electroni cs lab	Svce/eee/fir st floor/3102	Ee2304	Power electronics lab	Eee	V/iii/12	Ee2356	Microproce ssor and microcontr oller lab	Eee	Vi/iii/12
						Pe9225	Power electronics and dives lab	Eee	Ii/i/3
Iv- software laborato ry	Svce/eee/fir st floor/3101	Ee2404	Power system simulation lab	Eee	Vi/iv/12				
		Cs2312	Programmi ng in oops	Eee	V/iii/12				
V- electroni cs laborato ry	Svce/eee/se cond floor/3201	Ee2208	Measureme nt and instrumenta tion laboratory	Eee		Ee2155	Electric circuits lab	Eee	Ii/i/6
			Electronic circuits and devices lab	Eee	Iii/ii/12				
Vi- engineer ing practice laborato ry	Svce/eee/se cond floor/3202	Ge2116	Engineerin g practice laboratory	All branche s	Iii/ii/12	Ee2258	Linear integrated and circuits lab	Eee	Iv/ii/12

31. Number of students receiving financial assistance from college, university, government or other agencies

Year	Number of students receiving financial assistant from			
	College	University	Government	Other agencies
2009	<u>Scholarship</u> Economic =2 nos Merit cum means=3 nos Merit= 4nos Sports=1 no	-	<u>BC/MBC</u> scholarship= 164 nos Total cost=4,19,229/-	-
	<u>Books and Instrumentation Award</u> Economic means=5nos Merit cum means=3 nos Merit= 3 nos(ug), 1 no(pg) Sports=1 no		<u>SC/ST scholarship</u> Scholarship= 70 nos Total cost=3,84,051/-	
2010	<u>Scholarship</u> Economic =3 nos Merit cum means=5 nos Merit= 9nos Sports=3nos Ncc=1 no	-	<u>BC/MBC</u> scholarship= 213 nos Total cost=5,32,578/-	-
	<u>Books and Instrumentation Award</u> Economic means=3nos Merit cum means=3 nos Merit= 3 nos(ug), 1 no(pg) Sports=1 no		<u>SC/ST scholarship</u> Scholarship= 86 nos Total cost=9,58,370/-	
Year	Number of students receiving financial assistant from			
	College	University	Government	Other agencies

2011	<p><u>Scholarship</u></p> <p>Economic =7 nos</p> <p>Merit cum means=6 nos</p> <p>Merit= 4nos</p> <p>Sports=2nos</p> <p>Ncc=1 no</p>	-	<p><u>BC/MBC</u></p> <p>scholarship= 233 nos</p> <p>Total cost=5,87,146/-</p> <p><u>SC/ST scholarship</u></p> <p>Scholarship= 97 nos</p> <p>Total cost=11,02,440/-</p>	Shree Vijayalakshmi charitable trust=4 nos
2012	<p><u>Scholarship</u></p> <p>Merit cum means=4 nos</p> <p>Merit= 3 nos</p> <p><u>Books and Instrumentation Award</u></p> <p>Merit cum means=3 nos</p> <p>Merit= 3 nos(ug), 1 no(pg)</p> <p>Sports=2 nos</p> <p>Ncc= 1no</p>	-	<p><u>BC/MBC</u></p> <p>scholarship= 295 nos</p> <p>Total cost=7,34,959/-</p> <p><u>SC/ST scholarship</u></p> <p>Scholarship= 116nos</p> <p>Total cost=7,61,350/-</p>	Shree Vijayalakshmi charitable trust=8 nos

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

2009

SPECIAL LECTURES (Guest Lecture Topic/Date/Expert Details)

For example furnish the details in the following format

Special Lecture Topic	Date	Target Audience	Special Lecture Delivered by
“Skill development”	28/07/09	140	Dr.Ramki srinivasan President,Corporate development Orient green power Ltd
“Various measures for achieving industrial power quality”	20/08/09	140	Mr.B.Ramaswamy Corporate manager,USA

“Modern Economy and implementation of strategies”	03/09/09	140	Mr.M.Kannappan GM,BHEL,Chennai
“Labview programming for engineer”	11/09/09	140	Mr.S.Ganesh kumar Application engineer, National instruments.

WORKSHOPS

Workshop on	Date	Target Audience	Workshop Experts
LabVIEW based System Design	24/09/2009 & 25/09/2009	Interested students from EEE, ECE	Mr.S. Ganesh kumar, Application Engineering, National Instruments, Bangalore.

2010

SPECIAL LECTURES (Guest Lecture Topic/Date/Expert Details)

For example furnish the details in the following format

Special Lecture Topic	Date	Target Audience	Special Lecture Delivered by
Smart Grids	24.12.2010	All Final Year and Pre final Year EEE Students	R. Jayashri Lecturer University of New South Wales, Sydney, Australia
Selection of Switch Gears (Industrial Lecture)	11.01.2011	II year, III year and IV year EEE Students	Mr. K. Bharath Kumar Manager – Segment Marketing L & T Mumbai Mobile: 09842190512
Wonderful World of Microelectronics (Foreign Lecture)	23.03.2011	II year, III year and IV year EEE Students	Prof. Krishnamachar Prasad Professor Auckland University of Technology, Australia
Role of Electrical Officers on Ship & Ship Board Life	29.03.2011	III year and IV year EEE Students	Mr. S. Shankarram Chief Engineer Marine Industry
Evolution of Electric Traction	23.07.2010	III year and IV year EEE Students	Mr. B.G. Mallya Chief Design Engineer / Electrical Integral Coach Factory +91 9003141303
Minimal RBF Neural Networks – Theory & Applications (Foreign Lecture)	20.08.2010	III year and IV year EEE, ECE & CSE Students	Dr. Narasimhan Sundararajan Professor (Retd.), School of Electrical & Electronics

			Engg. Nan yang Technological University 09962436710
Role of Engineers in aiding sustainability of Human Race	28.08.2010	II year, III year and IV year EEE Students	Mr. Tilakraj Seth Vice President – Mobility Division Siemens Ltd., India +91 9810238884

WORKSHOPS

Workshop on	Date	Target Audience	Workshop Experts
Real Time Embedded System Design (Multidisciplinary)	16.07.2010 to 19.07.2010	Interested students from EEE, ECE & Mech. Engg.	M/s. Pantech Solutions Pvt. Ltd. and M/s. Tech Lab, Chennai
Non-Conventional Energy Sources	24.08.2010	III year and IV year EEE Students	Neyveli Lignite Corporation & TNEB
Introduction to VLSI Design	18.03.2011 & 19.03.2011	III Year EEE & ECE Students	M/s. ACCEL IT Academy, Nungambakkam, Chennai

2011

SPECIAL LECTURES (Guest Lecture Topic/Date/Expert Details)

Special Lecture Topic	Date	Target Audience	Special Lecture Delivered by
“Electric Power & Telecom Scenario”	30/03/2012	250	Mr.V.Jagadeesan, General Manager, BSNL, Chennai Telecoms, Chennai.
Research Areas in “VLSI Design”	12/01/2012	250	Dr.Murali Varanasi, Professor, North Texas University, USA.
“Operation and Control of Power Systems”	13/09/2011	123	Mr.N.Kannan, Training Faculty, MECTON Energy India Limited, Chennai.
“To Achieve Excellence in Research and Development”	31/08/2011	250	Dr.Salivahanan, Principal, SSN College of Engineering, chennai.
“Renewable Energy and General Trends in Electrical Power”	02/08/2011	250	Mr.G.V.R.Rao, Vice President, SIEMENS India Limited, Chennai.
“Facts and its Applications”	17/02/2012	250	Dr.Maheshkumar, Professor, IIT/EEE, Chennai.
“Managerial Skills”	18/02/2012	250	Mr.Sukumara, GSV Microtech, Porur, Chennai.
“FPGA Implementation in Motor Control”	18/02/2012	250	Dr.PremanandChandramani, Professor/ECE, SSNCE, Kalavakkam, Chennai.

WORKSHOPS

Workshop on	Date	Target Audience	Workshop Experts
“Image Processing framework using FPGA”	03/02/2012 & 04/02/2012	41	Mr.Sp.Ramanathan, Senior Application Engineer, Enixs Technology India Private Limited
“Electrical Drawings, Types and Applications”	07/01/2012	54	Mr.N.Kannan, Training Faculty, MECTON Energy India Limited, Chennai.

2012

SPECIAL LECTURES (Guest Lecture Topic/Date/Expert Details)

For example furnish the details in the following format

Special Lecture Topic	Date	Target Audience	Special Lecture Delivered by
Power Optimization in Wireless sensor network	26/07/2012	200	Dr.V.Vaidhehi /Head of the Information Technology Department/ Madras Institute of Technology, Chennai.
HVDC and FACTS in ABB Pvt. Ltd.	27/08/2012	200	Dr.Madan Mohan/Associate Scientist /ABB Pvt. Ltd., Chennai.
Microprocessors and Interfacing	15/10/2012	120	Mr. K.Kulothungan/AP/ Dept. of Information Science and Technology/ Anna University, Chennai.
Control Circuit Design with AUTOCAD Electrical	18/02/2013	120	Mr. R.Rajesh/Cluster Manager/ KKM Soft, Chennai.
Introduction to Neural networks	23/02/2013	120	Dr.T.Thayagarajan/ Professor , Instrumentation Engineering Department/ Madras Institute of Technology, Chennai.

WORKSHOPS

Workshop on	Date	Target Audience	Workshop Experts
PLC based SCADA Automation	31/08/2012& 01/09/2012	37	A.Karthikeyan, Technocrat Automation Solutions Pvt Ltd.
DSP System Design using TI Processor and FPGA	19/10/2012& 20/10/2012	33	Mr.S P Ramanathan, Technical manager, Enixs Technology, India Pvt. Ltd.
Power Electronics Converters for Wind Energy Conversion Systems Topics Covered: 5.) Power Electronics Converters for WECS 6.) Overview of WECS 7.) WECS – Recent Advancements 8.) Grid Integration of WECS	22/02/2013& 23/02/2013	30	1.) Mr.S.Selva Kumar/ ABB Global Industries Ltd, Chennai 2.) Dr.P.Soma sundaram, AP,Power systems, CEG, Guindy 3.) Mr.C. Nallasivan, System studies engineer, TNEB. 4.) Mr.Balaji,Engineer, Power Research and Development Cosultants(PRDC) Ltd,Bangalore

33. Teaching methods adopted to improve student learning

- a) Conducting tutorial sessions
- b) Remedial classes for poor performers
- c) Extended classes for difficult subjects
- d) Emulation of international teaching methods by faculty
- e) Use of ICT enabled class room facilities like smart boards.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Year	EEE Students' participation in Institutional Social Responsibility (ISR) and Extension activities			
	NSS		LEO, ROTRACT, etc. Club Activities	
	Nature of Activity Details	No. of Students Participated	Nature of Activity Details	No. of Students Participated
2009	1. Blood Donation Camp	30	1. Blood donation camp.	95
	2. Tree Plantation	30	2. Campus Cleaning.	50
	3. Awareness	25		

	<p>Rallies(Eg: Against Illicit Arrack, Against Tobacco use, On Road Safety, On AIDS, etc.,)</p> <p>4. Inter Collegiate Competitions on Topics Relating to Social/Health/National issues.</p> <p>5. Seminars/Workshop on National/Social/Health related issues.</p> <p>6. Adopted a village and conducted a 7 days camp for the benefit of the villagers as well as sensitize students to social problems.</p> <p>7. Visits to Orphanages, schools in the nearby villages and help/interact with students.</p>	<p>18</p> <p>10</p> <p>50</p> <p>30</p>	<p>3. Orphanage Visit.</p> <p>4. Road Safety.</p> <p>5. Drug Awareness.</p> <p>6. Tree Plantation.</p>	<p>140</p> <p>60</p> <p>70</p> <p>30</p>
2010	<p>1. Blood Donation Camp</p> <p>2. Tree Plantation</p> <p>3. Awareness Rallies(Eg: Against Illicit Arrack, Against Tobacco use, On Road Safety, On AIDS, etc.,)</p> <p>4. Inter Collegiate Competitions on Topics Relating to Social/Health/National issues.</p> <p>5. Seminars/Workshop on National/Social/Health related issues.</p> <p>6. Adopted a village and conducted a 7 days camp for the benefit of the villagers as well as sensitize students to social problems.</p> <p>7. Visits to Orphanages, schools in the nearby villages and help/interact with students.</p>	<p>30</p> <p>30</p> <p>25</p> <p>18</p> <p>10</p> <p>50</p> <p>30</p>	<p>1. Blood donation camp.</p> <p>2. Campus Cleaning.</p> <p>3. Orphanage Visit.</p> <p>4. Road Safety.</p> <p>5. Drug Awareness.</p> <p>6. Tree Plantation.</p>	<p>90</p> <p>45</p> <p>135</p> <p>55</p> <p>65</p> <p>23</p>
2011	<p>1. Blood Donation Camp</p> <p>2. Tree Plantation</p> <p>3. Awareness</p>	<p>30</p> <p>30</p> <p>25</p>	<p>1. Blood donation camp.</p> <p>2. Campus Cleaning.</p>	<p>97</p> <p>55</p>

	<p>Rallies(Eg: Against Illicit Arrack, Against Tobacco use, On Road Safety, On AIDS, etc.,)</p> <p>4. Inter Collegiate Competitions on Topics Relating to Social/Health/National issues.</p> <p>5. Seminars/Workshop on National/Social/Health related issues.</p> <p>6. Visits to Orphanages, schools in the nearby villages and help/interact with students.</p>	<p>18</p> <p>10</p> <p>30</p>	<p>3. Orphanage Visit.</p> <p>4. Road Safety.</p> <p>5. Drug Awareness.</p> <p>6. Tree Plantation.</p>	<p>143</p> <p>62</p> <p>73</p> <p>35</p>
2012	<p>1. Blood Donation Camp</p> <p>2. Tree Plantation</p> <p>3. Awareness Rallies(Eg: Against Illicit Arrack, Against Tobacco use, On Road Safety, On AIDS, etc.,)</p> <p>4. Inter Collegiate Competitions on Topics Relating to Social/Health/National issues.</p> <p>5. Seminars/Workshop on National/Social/Health related issues.</p> <p>6. Visits to Orphanages, schools in the nearby villages and help/interact with students.</p>	<p>30</p> <p>30</p> <p>25</p> <p>18</p> <p>10</p> <p>30</p>	<p>1. Blood donation camp.</p> <p>2. Campus Cleaning.</p> <p>3. Orphanage Visit.</p> <p>4. Road Safety.</p> <p>5. Drug Awareness.</p> <p>6. Tree Plantation.</p>	<p>105</p> <p>60</p> <p>151</p> <p>68</p> <p>76</p> <p>35</p>

35. SWOC analysis of the department and Future plans

SWOC Analysis of Department of Electrical and Electronics Engineering

STRENGTHS-S:-

- 1) Excellent Infrastructure
- 2) Funded Projects
- 3) Highly Competent, motivated and dedicated work force
- 4) Higher number of faculty members under faculty development program such as Phd.

- 5) Enhanced faculty qualification index
- 6) High faculty cadre ratio
- 7) Higher number of research publications
- 8) Industry, Institute Interaction
- 9) ISO 9001:2008 based work activities
- 10) High number of employable graduates-Excellent placement record.
- 11) High level encouragement of students in the participation of extra-curricular and co-curricular activities.
- 12) Incentives for achievements ,awards, publications by faculty and students.
- 13) Excellent alumni

WEAKNESS-W:-

- 1) Lack of adequate faculty quarters thus necessitating long and tedious travel by faculty and staff
- 2) Less number of ICT enabled classrooms
- 3) Lack of Department seminar hall.
- 4) Limited Wi-fi enabled campus
- 5) Limited Provision of individual faculty computer systems.

OPPORTUNITIES-O:-

- 1) To evolve into a centre of research excellence
- 2) To enhance faculty exchange programme by improving the collaboration with other universities of national and international reputation.
- 3) Enhanced interaction with alumni both national/international for the development of the institution to great heights

CHALLENGES-C:-

- 1) To prepare students in the face of the industrial recession.
- 2) To orient and motivate the current generation students in the fundamental aspects of engineering.
- 3) To attract industry in the participation of institutional academic and extra academic activities.
- 4) To raise upto the level of global educational standards through infrastructure, man power and research development by striving to achieve autonomous/university states.

Future Plans of Department of Electrical and Electronics Engineering

Academic Year 2012-13 from (February 2013)

To prepare and submit the application for NBA.

To involve in the activities required for accreditation.

Academic Year 2013-14

To submit application to AICTE for 'increase in intake' in EEE.

To set up an additional Electrical Machines Laboratory to cater to the increase in intake in other departments and to manage the practical examination schedule.

To submit application for MODROBS-AICTE.

To submit two project proposals, RPS-AICTE.

To submit one FDP proposal, AICTE.

To provide individual systems to faculty members to reduce the work time.

To strengthen the PG programs by starting the course – M.E Power Systems.
Application - to be submitted to AICTE.

To recruit one faculty member with Ph.D in Power Systems.

To emphasize on improving the quality of Teaching-Learning Process.

Academic Year 2014-15

To set up the Power Systems Laboratory for PG.

To focus on to develop a tie up with foreign universities with respect to Power Systems Research.

To strengthen infrastructure and the development of the research cell.

To emphasize on improving the quality of Teaching-Learning Process.

To have a separate room for library (Dept.).

Academic Year 2015-16

To strengthen the PG programs by starting the course – M.E Embedded Systems.
Application - to be submitted to AICTE.

To set up the 'High Voltage Engineering Laboratory'.

To emphasize on improving the quality of Teaching-Learning Process.

Academic Year 2016-17

To set up the Embedded Systems Laboratory for PG.

To emphasize on improving the quality of Teaching-Learning Process.

To establish the PG courses as an independent entity with exclusive resources.

Plan for every academic year

To submit **project proposals** periodically for various funding agencies.

To conduct the **National Conference on Advances in Electrical and Electronics Engineering (NCAEEE)** every year during the even semester.

To organize two **workshops** during the even semester and one/two **workshops** during the even semester every year.

To organize five **guest lectures** every year.

To organize a **National Level Technical Symposium** during the odd semester every year.

To encourage faculty members to **attend conferences/workshops** every year

To encourage non teaching staff to **attend training programs** every year

Evaluative Report of the Departments

Department: **INFORMATION TECHNOLOGY**

1. Name of the department:- Information Technology
2. Year of Establishment:- 1996
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):-
B.Tech (Information Technology),
M.E-Computer and Communication- being changed to M.E (Computer Science and Engineering with specialization in Networks),
Ph. D in IT and allied areas of study in the Dept as approved Research Centre.
4. Names of Interdisciplinary courses and the departments/units involved:-

Sem	Subject Code	Subject Name	Handling Department
I	HS2111	Technical English - 1	HS
I	MA2111	Mathematics-1	AM
I	PH2111	Engineering Physics -1	AP
I	CY2111	Engineering Chemistry -1	AC
I	GE2111	Engineering Graphics	ME
I	GE2116	Engineering Practices Laboratory	ME&EE
I	GS2165	Physics and Chemistry Laboratory-1	AP&AC
II	HS2161	Technical English – II	HS
II	MA2161	Mathematics-II	AM
II	PH2161	Engineering Physics –II	AP
II	CY2161	Engineering Chemistry –II	AC
II	GE2152	Basic Civil And Mechanical Engineering	CE&ME
II	GS2165	Physics And Chemistry Laboratory – II	AP &AC
III	MA2211	Transforms and Partial Differential Equations	AM
III	GE2021	Environmental Science & Engineering	BT
IV	MA 2262	Probability and	AM

		Queuing Theory	
V	GE2321	Communication Skills Lab	HS
VI	MA2264	Numerical Methods(Elective)	AM

5. Annual/ semester/choice based credit system (programme wise) :-
B.Tech and M.E- semester based credit system
Ph.d- choice based and semester credit system
6. Participation of the department in the courses offered by other departments:-

Sem	Subject Code	Subject Name	IT Department Handling to
I	GE2112	Fundamentals of Computing and Programming	AU/BT/CH/CV/EE/EC/ME/MR
I	GE2115	Computer Practice Laboratory-1	AU/BT/CH/CV/EE/EC/MH/MR
II	GE2155	Computer Practice Laboratory II	AU/BT/CH/CV/EE/EC/MH/MR

7. Courses in collaboration with other universities, industries, foreign institutions, etc. :-Nil
8. Details of courses/programmes discontinued (if any) with reasons :- Nil
9. Number of Teaching posts

	sanctioned	Filled
Professors	4	4
Associate Professors	3	3
Asst. Professors	28	28

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name of the Faculty	Qualification	Designation	Specialization	No of years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.D. Balasubramanian	Ph.D	Professor & Head of the Department	Computer Science	35	NIL
Prof.E.G.Govindan	M.Tech	Professor & Warden-SVCE Hostel	Radar Systems & Communication Engineering	29 years in Industry; 11 years in Teaching	NIL
Dr.G. Sumathi	Ph.D	Professor & Head(IMS)	Grid computing	18 years in teaching, 2 years in industry.	4
Dr.N.Kumaratharan	Ph.D	Professor	Wireless Communication & Spread Spectrum	9	5
K.Thaiyalnayaki	M.E	Associate Professor	Applied Electronics	15	NIL

S. Swarna Parvathi	M.E	Associate Professor	Communication systems	13.5	NIL
V.M. Sivagami	M.E	Associate Professor	Computer Science	13	NIL
N. Revathi	M.E	Assistant Professor	Computer Science	10	NIL
N. Devi	M.E	Assistant Professor	Multimedia Technology	12.4	NIL
B.T.Shobana	M.E	Assistant Professor	Computer Science	10	NIL
R. Dhanalakshmi	M.E	Assistant Professor	Computer Science	11	NIL
P. Leela Rani	M.E	Assistant Professor	Computer Science	9.3	NIL
D.Jayanthi	M.E.	Assistant Professor	Computer Science	7.8	NIL
A.Kala	B.Tech	Assistant Professor	Information Technology	7	NIL
KiruthikaDevi K	M.E	Assistant Professor	Computer Science	9.1	NIL
P. Sharon Femi	B.E	Assistant Professor	Information Technology	7.2	NIL
P. Nirmala	B.Tech	Assistant Professor	Information Technology	7.8	NIL
R. Saktheeswari	B.Tech	Assistant Professor	Information Technology	7.8	NIL
G.Sangeetha	M.E	Assistant Professor	Computer Science	6	NIL
A. Rohini	B.E	Assistant Professor	Computer Science	6.9	NIL
V. Saroja	B.E	Assistant Professor	Computer Science	5	NIL
T. Sukumar	M.Tech	Assistant Professor	Information Technology	10.7	NIL
U. Pooranima	ME	Assistant Professor	Computer Science	6.2	NIL
L.Anita Elizabeth	ME	Assistant Professor	Computer Science	3	NIL
K. Suresh	M.E	Assistant Professor	Communication systems	3	NIL
B.Lalithambigai	ME	Assistant Professor	Computer Science	1	NIL
A.Indumathi	M.Tech,	Assistant Professor	Information Technology	5	NIL
H.Maimoon Begum	ME	Assistant Professor	Computer and Communication	3	NIL
M.Vijayasanthi	M.Tech	Assistant Professor	Computer Science	4.8	NIL
V.Rajaram	ME	Assistant Professor	Communication systems	3	NIL
K.Nivethaa Shree	ME	Assistant Professor	Computer Science	0.8	NIL
N.Uma	ME	Assistant Professor	Computer Science	0.8	NIL

K. Arun kumar	ME	Assistant Professor	Computer and Communication	1.8	NIL
K.Umaheswari	ME	Assistant Professor	Computer and Communication	0.8	NIL
C Silambarasi	M.E	Assistant Professor	Knowledge Engineering Computational logistics	0.8	NIL

11. List of senior visiting faculty:- Nil
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty:- Nil
13. Student -Teacher Ratio (programme wise):-
B.Tech-Information Technology:-1:14
M.E-Computer and Communication:-1:12
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:-

	sanctioned	Filled
supportstaff(technical)	5	5
administrative staff	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG. Ph.D-3,PG-28,UG-4
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:-
3 PIs in National Projects .
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:-
 1. Project Title : A Framework for Resource Monitoring and Fault Tolerant Scheduling in Heterogeneous Computational Grids
Principal Investigator: Dr. G. Sumathi
Funding Agency : DRDO
Duration : Two years(April2011- March-2013)
Sanctioned Amount : Rs. 4.55 Lakhs
 2. Project Title : Dual Blind Detection Robust Watermarking for Multimedia Security
Funding Agency : ISRO
Principal Investigator : Ms.K.Thaiyalnayaki.
Sanctioned Amount : Rs. 3,30,000 /
Duration: Two years(Jan2012- Dec2013)
 3. Project Title : Robust Video Streaming using H.264 Scalable Video Coding over Mobile Broadband Networks
Principal Investigator: Ms.S.Swarna Parvathi
Funding Agency : ISRO
Duration : Two years(Feb2013- Jan2015)
Sanctioned Amount : Rs.9 Lakhs.
17. Research Centre /facility recognized by the University:-

18. Yes, by Anna University
Publications:

S.No	Dept	Number of papers published by faculty and students in peer	Number of publications listed in International Database (for Eg: Web of Science, Scopus)	Publication Per Faculty	Monographs	Chapter in Books	Books Edited	Books With ISBN/ISSN Numbers With Details of	Citation Index	SNIP	SJR	Impact factor	h-index	
1	IT	44	53	Dr.G. Sumathi-11 2009-2010:-2 2010-2011:-3 2011-2012:-4 2012-2013:-2	nil	nil	nil	nil	2009-2010:-4 2010-2011:-3 2011-2012:-3 2012-2013:-2	nil	nil	2009-2010:-0.814 2010-2011:-0.814 2011-2012:-0.814 2012-2013:-0.814	2009-2010:-2 2010-2011:-2 2011-2012:-2 2012-2013:-2	
		15	18	Dr.N.Kumaratharan-17 2009-2010:-3 2010-2011:-1 2011-2012:-6 2012-2013:-7	nil	nil	nil	nil	2009-2010:-3 2010-2011:-0 2011-2012:-3 2012-2013:-7	nil	2009-2010:-3 2010-2011:-0 2011-2012:-3 2012-2013:-7	2009-2010:-0.733 2010-2011:-0 2011-2012:-0.572 2012-2013:-0.835	0.242	
		12	14	K.Thaiyalnayaki-5 2009-2010:-2 2010-2011:-0 2011-2012:-2 2012-2013:-1	nil	nil	nil	nil	nil	nil	nil	nil	2009-2010:-0.814 2010-2011:-0 2011-2012:-0 2012-2013:-0.86	0.423
		15	18	S. Swarna Parvathi-7 2009-2010:-1 2010-2011:-2 2011-2012:-2 2012-2013:-2	nil	nil	nil	nil	2009-2010:-3 2010-2011:-0 2011-2012:-3 2012-2013:-2	nil	nil	2009-2010:-0.423 2010-2011:-1.59 2011-2012:-0.814 2012-2013:-0	0.572	

				P. Leela Rani-6 2009-2010:-0 2010-2011:-1 2011-2012:-5 2012-2013:-0	nil	nil	nil	nil	nil	nil	nil	2009-2010:-0 2010-2011:-0.814 2011-2012:-0.814 2012-2013:-0	nil
				N. Revathi-4 2009-2010:-0 2010-2011:-1 2011-2012:-3 2012-2013:-0	nil	nil	nil	nil	nil	nil	nil	2009-2010:-0 2010-2011:-0.814 2011-2012:-0 2012-2013:-0	nil
				D.Jayanthi-5 2009-2010:-1 2010-2011:-0 2011-2012:-3 2012-2013:-1	nil	nil	nil	nil	nil	nil	nil	2009-2010:-0.423 2010-2011:-0 2011-2012:-0.814 2012-2013:-0	nil
				T. Sukumar-1 2009-2010:-0 2010-2011:-1 2011-2012:-0 2012-2013:-1	nil	nil	nil	nil	nil	nil	2009-2010:-0 2010-2011:-0.50 2011-2012:-0 2011-2012:-0 2012-2013:-0 2012-2013:-1	nil	
				L. Anita Elizabeth-1 2009-2010:-0 2010-2011:-1 2011-2012:-0 2012-2013:-0	nil	nil	nil	nil	nil	nil	nil	2009-2010:-0 2010-2011:-0.814 2011-2012:-0 2012-2013:-0	Nil
				K.Suresh 2012-2013:-1	nil	nil	nil	nil	nil	nil	nil	nil	nil

19. Areas of consultancy and income generated :- DRDO-Rs 4,55,000,ISRO-Rs3,30,000, Rs9,00,000
20. Faculty as members in
 - a) National committees- Nil
 - b) International Committees-
- 1) Dr.N.Kumaratharan- International Association of Computer Science and Information Technology,IDES.
 - c) Editorial Boards-
 - 1)Dr.G. Sumathi-Reviewer-Electronics and Telecommunications Research Institute,Inderscience
 - 2)Dr.N.Kumaratharan-Reviewer-Journal of communication
 - 3)S. Swarna Parvathi- Reviewer-Journal of supercomputing.
21. Student projects
 - a) Percentage of students who have done in-house projects including inter departmental/programme:-

2009 - 2010:

Total number of projects: 23+21 = 44 projects
 Total Strength of A & B: (65+55) = 120 students

In-house projects:

Number of In-house projects: **23 projects**
 Number of students with in-house projects: 120-55 = 65
 Percentage of students: **(65)/120 =54.16 %**

2010 – 2011:

Total number of projects: 37+5 =42 projects
 Total Strength of A & B: 65+64 students = 129 students

In-house projects:

Number of In-house projects: **37 projects**
 Number of students with in-house projects: **129-14 =115**
 Percentage of students: **115/129 =89 %**

2011 - 2012:

Total number of projects: 38+8 =46 projects
 Total Strength of A & B:63+62=125 students

In-house projects:

Number of In-house projects: **38 projects**
 Number of students with in-house projects: 125-20=105 students
 Percentage of students: **105/125=84 %**

2012-2013:-

Total number of projects: 21+2+20 =43 projects
 Total Strength of A & B: 62+57 = 119 students

In-house projects:

Number of In-house projects: **31 projects**
 Percentage of students: **88/119 =74 %**

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:-

2009 -2010:

Total number of projects: 23+21 = 44 projects
 Total Strength of A & B: 65 +55 students

Company projects:

Number of company projects: **21 projects**
 Percentage of students: **55 students (28+27 = 55)**

$$=55/120 * 100$$

Percentage of students did company projects = 45.83 %

2010 – 2011:

Total number of projects: 37+5= 42 projects

Total Strength of A & B: = 65+64 students = 129 students

Company projects:

Number of company projects: 5 **projects**

Percentage of students: 14 **students**

$$= 14/129 * 100$$

Percentage of students did company projects =10.85 %

2011-2012:-Nil

2012-2013:-

Total number of projects: 21+2+20 =43 projects

Total Strength of A & B: 62+57 = 119 students

Company projects:

Number of company projects: 7+5 = **12 projects**

Percentage of students: A(18 students) + B(13students)

=31 students

$$=31/119 * 100 = 26.05 %$$

22. Awards/ Recognitions received by faculty and students:-

Academic Year (2009-2010):

1. R. Sindhuja and P. Varsha published a paper entitled “An Improved ID Based Entitled Verifier Cryptography for Grid Systems” in International Journal of Recent Trends in Engineering, Nov 2009.
2. N. Rupak, R. Raghunath, G. Sridhar published a paper entitled, “Mobile Device Interface to access Computational Grid” in IEEE Int. Conf. on Advances in Recent Technologies in Communication and Computing, Kerala, India, October 2009.
3. N. Rupak, R. Raghunath, G. Sridhar published a paper entitled, “Job Submission to Grid using Mobile Device Interface” in IEEE World Congress on Nature and Biologically Inspired Computing, Coimbatore, India, November 2009.
4. P.Kavin and M.Suresh presented a paper entitled “Nanotechnology- Cloak of invisibility” in CONVERTIA 2K9 of SSN College of Engineering on 04-09-2009.
5. Y.Kaushik, Naresh.D won **second prize** for presenting a paper entitled “Underwater Robots for Environment” in WARROS’09 of Sri Sai Ram Institute of Technology on 11-09-2009.
6. Syed Abdul Karim S, Varsha Parmar P published a paper entitled “Finger Print recognition using Discrete Wavelet Transform” in International Journal of Computer Application, Jan 2010
7. E.C. Venkata Sarathy and M.Selvamani won **second prize** for presenting entitled “GPS Guided Real Time Soil Testing System” paper in the Inter College Paper Presentation Contest VILGRO organized by PSG Technology, Coimbatore held in SVCE on 29th Jan 2010.
8. R.Santhosh Kumar and N.Siranjeevi won **second prize** for presenting paper entitled “Implanting Computer Symbiotes in future human brain” in the Intra – Department Student Contest for Paper Presentation held at SVCE, conducted by the Association of Information Technologists on the 27th of March 2010.

9. S.M.Jagadish, R.Jothiswaran, K.Govindaraj won the **first prize** for the paper entitled “Customer centric marketing for Mobile value-added services using Data Mining Techniques” in NCCI 2010.
10. R.Kavitha, C.Kotteswari published a paper entitled “Memory Leak Detection in clusters” in International Journal of Computer Application, June 2010

Academic Year (2010-2011):

1. Snehitha Addanki (2007-2011) is selected as the **IBM DB2 Student Ambassador 2010** for our College.
2. S. Rajesh (2006-2010) was honored with the **IBM Information Champion Award-2010**.
3. M.Sunil Kumar won **second prize** for presenting paper entitled “Efficiency stability in under water Robotics” in the ECLAT ‘10 of VelTech Multitech Dr.Rangarajan Dr.Sakunthala Engineering College on 20th July 2010.
4. L.Jayanth Kumar and S.Karthick Raj won **third prize** for presenting paper entitled “Alzheimer’s disease – Video based reminder system” in SANKHYA 2010” of SVCE during August 2010.
5. Snehitha Addanki has secured **one of the top 25 scores** in the DB2 Essential Training I organized by IBM on 18th September 2010 for students across the world and is awarded the IBM Certification Voucher
6. Y.Kaushik, Mirunalini.V won **third prize** for presenting a paper entitled “Underwater Robotics for Sustainance of our Environment and climate change” in WARROS’10 of Sri Sai Ram Institute of Technology on 3-09-2010.
7. R. Purushothaman and R.Yogitha presented a paper entitled “Cryptography and Network Security” in National level technical symposium of Aalim Muhammed Saleigh College of Engineering on 23-09-2010.
8. Kirthi J , Neeju N.J published a paper entitled ” Automatic Spell Correction of User query with Semantic Information Retrieval and Ranking of Search Results using WordNet Approach” in IJCSI International Journal of Computer Science Issues, Vol. 8, Issue 2, March 2011
9. R.KOWSALYA , R.PRIYA published a paper entitled ” Multi Document Extractive Summarization Based On Word Sequences” in IJCSI International Journal of Computer Science Issues, Vol. 8, Issue 2, March 2011.
10. Srivatsan.M, Sunil Kumar.M, Vijayshankar.V published a paper entitled “Predicting Missing Items in Shopping Carts using Fast Algorithm” in International Journal of Computer Applications (0975-8887), vol.21, no.5, pp.35-41, May 2011

Academic Year (2011-2012):

1. Ms. Sujatha Krishnaswamy (2007-2011) has won the **Innovative Student Projects Award 2011** for the paper “A Certificateless designated verifier ring signcryption scheme-Design and Implementation”. Award will be given in December 2011.
2. The Project “A Real-time Driver Fatigue Detection and Alert System based on efficient Eye-tracking “ was approved by the Tamil state council for science and technology with a grant of Rs.6000 on 13th Feb 2012. This project was proposed by the student K.Marimuthu (2008 -2012) B.Tech IT and mentored by Ms.N.Devi AP/IT. It has been exhibited in State level student Projects Seminar cum exhibition at kamaraj College of Engineering and Technology on 10th and 11th august 2012 by the student.

Academic Year (2012-2013):

1. **Arjun S** (Batch 2011-2015) participated in a National level technical symposium and has secured **FIRST place** in the event “I am Feeling Lucky” organized by Association of Computer Technologists, **Madras Institute of Technology**, Chennai on March 2 & 3, 2013.
2. **Kirupakaran and Gokul K** (Batch 2011-2015) participated in a National level technical symposium and has secured **THIRD place** in “Tech Conundra” organized by Association of Computer Technologists, **Madras Institute of Technology**, Chennai on March 2 & 3, 2013.
3. **Aaditya S** (Batch 2010-2014) presented a paper titled “**Real Time Driver Fatigue Detection System based on Efficient Eye Tracking and Bluetooth enabled alarm**” in the state level seminar on “Data Mining – Applications & Trends” held on 2nd February 2013 at Valliammal College for Women, Chennai - 600 102.
4. The five-member students’ team launched the “**Paper Hut**” website, a new venture of 2500 old question papers online at Residency Towers by Dr. P. Mannar Jawahar, ex Vice Chancellor, Anna University on 03/11/2012. **Krishna Murari V** (2011-2015) of II year IT, SVCE was one of the members of the team.
5. **Krishna Murari V** (2011-2015) was appreciated for his contribution towards devices testing and development and sponsored by **Digital World Solutions** and **Samsung** to attend the International Mobile World Congress in Barcelona, Spain from 25-28th February 2013.
6. **Santhosh Raj M** (2011-2015) presented a paper titled “**Fire Fighting Robot**” at Vellore Institute of Technology University on 16th September 2012 and has won the **second prize**.
7. **S. SathyaNarayanan** (2010-2014) has been selected for **ThoughtWorks Campus Fellowship Program** on 10th September 2012.
8. **S. SathyaNarayanan and R. Santhosh Kumar** (2010-2014) participated and coded for 18 hours in the “Windows AppFest 2012” organized by Microsoft that was held at Karnataka Trade Promotion Organization (KTPO), Bangalore on 21st September. They were part of the **Guinness World Records for “Most participants in a Software Development Marathon at one location”**.

23. List of eminent academicians and scientists/ visitors to the department:-

2009-10

S.No	Date	Resource person
1	25 th Feb 2009	Mr.Sivaraman Ilango, Senior IT Consultant
2	13 th April 2009	Shri Prasad Garigipati System Technology Manager, Ericsson India Private Ltd, Chennai
3	24 th July 2009	Mr Anjan Annamanei, Director, Franklin Templeton, Chennai

4	4 th August 2009	Mr. Subramani Ramakrishna, Sr. Manager, IBM.
5	2 nd Sep 2009	Mr. Prabal Mall, Vice President, Expertus Limited
6	11 th Sep 2009	Mr. Sebastian, HOD/IT Swineburne University Australia
7	6 th January 2010.	Mr. Saravanan Thambusamy, Vice President, Technolody Allsec Technologies
8	27 th Mar 2010	Mr. Jeyaprabhu, Managing Director, FLSWAIR, Chennai

2010-11

S.No	Date	Resource person
1	22 nd July 2010	Mr. M.S. Ganesh, Director- Operations, Dell India Pvt. Ltd.,
2	13 th August 2010	Mr. Hariharan Vaidyanathan Senior Business Analyst, Cognizant Technology Solutions, Chennai
3	1 st September 2010	Prof. N. Venkateswaran, Founder-Director, Waran Research Foundation (WARFT)
4	11 th October 2010	Mr. Jayabalan, Chief Technical Officer, Net Magic Solutions Ltd.
5	25 th January 2011	Mr. Sreehari Krishnapuram Associate Vice President, Media & Entertainment, HCL Technologies
6	21 st February 2011	Mr. Saravanan Prabhakaran Security Team Incharge, Infosys

2011-12

S.No	Date	Resource person
1	27 th July 2011	Mr. K.N. Ganesh, Vice President-Education and Certification (PMI), Program Manager, HP GLOBOSOFT, DELL India Pvt. Ltd.
2	16 th August 2011	Prof. N. Venkateswaran, Founder-Director,

		Waran Research Foundation (WARFT),
3	29 th September 2011	Mr. Velan Masilamani Arcot Raja, Principal Consultant, Microsoft Delivery, Hexaware Technologies
4	25 th January 2012	Mr. V. Thothathri Vice President, Delivery Head – Retail, CPG Logistics and Life Sciences, Infosys
5	27 th January 2012	AnkitKumar Chhajer Co-founder and Director Cheeni Labs, chennai
6	26 th March 2012.	Ms. Sujitha N.K, Senior Software Engineer, Ericsson, Chennai
7	12 th April 2012.	Mr. L. Ravindranath, GLOBAL PRACTICE DIRECTOR, HCL, Chennai

2012-13

S.No	Date	Resource person
1	30 th July 2012	Mr. Magesh Venkataramani, General Manager , Banking & Capital Markets Computer Science Corporation, Chennai.
2	23 th August 2012	Mr.K.Govindarajan, Partner and Director, Global Head- Administration, Polaris.
3	15 th October 2012	Mr.Ram Kumar, CEO, Gemini Communications Limited (GCL)
4	11 th January 2013	Mr.S.Sathish Kumar , Associate Project manager Werum software systems, Lueneburg, Germany

24. Seminars/ Conferences/Workshops organized & the source of funding
a)National- 2009-2010(2),2010-2011(0),2011-2012(0),2012-2013(0)
b)International-nil
c)workshops:- 2009-2010(4),2010-2011(2),2011-2012(2),2012-2013(4)

d)seminars:- 2009-2010(1),2010-2011(3),2011-2012(0),2012-2013(0)

2009-2010

Module Description	Any other contributory Inst./ Industry	Developed/ organized by
Workshop on Free/Open Source Software 2009		Organised by Dept of IT
Training Programme on Red Hat Linux - (Enterprise Linux 5)		Organised by Dept of IT
National Conference on Communications & Informatics (NCCI 2009)		Organised by Dept of IT
Workshop on High Performance Computing and Applications		Organised by Dept of IT
Workshop on Service Oriented Architecture and Web Development		Organised by Dept of IT
IBM workshop on Database 2		Organised by Dept of IT
National Conference on Communications & Informatics(NCCI 2010)	Sponsored by M/s Cognizant Technology Solutions, Chennai	Organised by Dept of IT

2010-2011

Module Description	Any other contributory Inst./ Industry	Developed/ organized by
Enhancing employability of SC/ST students	sponsored by TADHCO and Anna University, Chennai	Organised by Dept of IT
Workshop on Database-2(DB2 2010)	In association with IBM	Organised by Dept of IT
Seminar on Network Security & Ethical Hacking	In association with Infosys	Organised by Dept of IT
IBM-Rational Application Developer	In association with IBM	Organised by Dept of IT

Workshop on Rational Functional Tester (RFT-2011)	In association with IBM	Organised by Dept of IT
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2011-2012

Module Description	Any other contributory Inst./ Industry	Developed/ organized by
Three days workshop on “IBM DB2 2011”	In association with IBM	Organised by Dept of IT
Three day National workshop on “Service oriented Architecture”		Organised by Dept of IT

2012-2013

Module Description	Any other contributory Inst./ Industry	Developed/ organized by
Four days workshop on "IBM Tivoli"	In association with IBM	Organised by Dept of IT
Eleven days workshop on Ethical Hacking	In association with M/s Gemini Communications Limited	Organised by Dept of IT
Three days workshop on “Database 2(DB2-2013)	In association with IBM	Organised by Dept of IT
Workshop on Microsoft Azure App Development	In association with Microsoft student partners	Organised by Dept of IT

25. Student profile programme/course wise:

Name of the Course/program me (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Tech-2009					86.25
B.Tech-2010					85.71
B.Tech-2011					91.40
B.Tech-2012					77.6
M.E-Computer and communication(2012 passed out)					69.23

*M=Male F=Female

26. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Tech-Information Technology			
M.E-Computer and Communication			

27. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? Nil

28. Student progression

Student progression	Against % enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	<ul style="list-style-type: none"> • Campus selection 2009-2010:-51.96 2010-2011:-76.51 2011-2012:-74.21 2012-2013:-65.54 • Other than campus recruitment 2009-2010:-27.55 2010-2011:-7.5 2011-2012:-1.5 2012-2013:-nil
Entrepreneurship/Self-employment	NIL

29. Details of Infrastructural facilities

- a) Library :- 611 Volumes of books, 211 Video Cassettes and copies of Project Reports of all passed out students.1PC(Intel core 2 duo)
- b) Internet facilities for Staff & Students :-Internet connection available for 10 Pc's(Intel Core i3-7, Intel Core 2 Duo-3) in faculty rooms.
- c) Class rooms with ICT facility:-
Yes, 2 SMART CLASSROOMS
- d) Laboratories:-

1)System Software Laboratory-

Servers – 2 Nos.

- Windows 2000 Server
- Dell Power Edge 1850 Rack Mountable Server Specification
- Intel Xeon 3.0 Ghz Processors, 2 x 73 GB SCSI HDD and 1GB DDR RAM
- Linux Server - Fedoro Core 2
- Dell Power Edge2850 Rack Server 2xXenon processor 3.0 Ghz, 2x73 Gb SCSI HDD,1GB DDR-1 RAM

Clients – 42Nos.

Dell Optiplux 3010DT :

- Intel Core i3 3rd Generation Processor 3.3 Ghz, 4 GB DDR3 RAM, 500GB Sata HDD - 37Nos.

Acer Veriton :

- Intel Core 2 Duo Processor E7500 2.93GHz, 3GB DDR3 RAM, 320 GB Sata HDD - 4 Nos.

HCL Desktop :

- Intel Core 2 Duo E7500 2.93 Ghz, 2GB DDR2 RAM, 150GB Sata HDD - 1No.

Operating System & Application Loaded:

Windows XP, Java, MS Office 2007, Visual Studio 6.0, SQL, Internet Information Server, Symantec End Point Protection, Acrobat Reader,

WinZip.

Printers :

- HP LaserJet 1022 - 1 No.
- TVS-MSP 450 Champion Dot Matrix Printer - 2 Nos.

Scanner :

- HP ScanJet G2410 - 1No.

Switches :

- Cisco Catalyst 2970 Switch 10/100/1000 24 port with 4 SFP - 2Nos
- Cisco Catalyst 2950 Switch 10/100/1000 24 port - 1No.

UPS :

- 7.5 KVA Online UPS - 1No.
- 6 KVA Online UPS - 1No.
- 3 KVA Online UPS - 1No.

2) Multimedia and Graphics Laboratory-

Windows 2000 Server- 1 No

Dell Poweredge 2850, Intel® xenon 3.0 GHz/2M processor, 1GB DDR1 RAM, 75GB SCSI Harddisk.

Red Hat EL V5.0 Server- 1 No

Dell Poweredge 2950, Intel® xenon 3.0 GHz/2M processor, 1GB DDR1 RAM, 75GB SCSI Harddisk.

Clients: 43 Nos.

- Acer Veriton Desktop M200, Core i3 3.3 GHz, 4GB DDR2 RAM, 500 GB Sata Harddisk, -**33 Nos.**
- Dell Optiplex 3010 Desktop Core i3 3.3 GHz, 4GB DDR3 RAM, 500GB Sata Harddisk - **08 Nos.**
- Acer Intel Core 2 Duo Processor E7500-2.93GHz, 3GB DDR3 RAM @ 1066mhz, 320 GB Sata HDD - **02 Nos.**

OS Loaded :XP Professional

Application Software Loaded:

- **Languages:** C, C++, Java 1.6,
 - **Database:** Ms-Access,
 - **Packages:** Ms-Office2007, IBM RSA, Symantec Norton Anti-virus Corporate Edition 9.0, Acrobat Reader, WinZip.
- Laser Printer: HP LaserJet 2015 - 1 No.**

Dot Matrix Printer TVS MSP 345 Champion Dot Matrix Printer - **2 Nos.**

HP Scanjet 4010 - **1 No.**

UPS Numeric 6KVA Online UPS- **2 Nos.**

Switches: 24 Port Cisco Catalysts 2970 series switches - **2 Nos.**

Windows 2000 Server- 1 No

Dell Poweredge 2850, Intel® xenon 3.0 GHz/2M processor, 1GB DDR1 RAM, 75GB SCSI Harddisk.

Red Hat EL V5.0 Server- 1 No

Dell Poweredge 2950, Intel® xenon 3.0 GHz/2M processor, 1GB DDR1 RAM, 75GB SCSI Harddisk.

Clients: 43 Nos.

- Acer Veriton Desktop M200, Core i3 3.3 GHz, 4GB DDR2 RAM, 500 GB Sata Harddisk, **-33 Nos.**
- Dell Optiplex 3010 Desktop Core i3 3.3 GHz, 4GB DDR3 RAM ,500GB Sata Harddisk - **08 Nos.**
- Acer Intel Core 2 Duo Processor E7500-2.93GHz, 3GB DDR3 RAM @ 1066mhz, 320 GB Sata HDD - **02 Nos.**

OS Loaded :XP Professional

Application Software Loaded:

- **Languages:** C, C++, Java1.6,
- **Database:** Ms-Access,
- **Packages:** Ms-Office2007, IBM RSA, Symantec Norton Anti-virus Corporate Edition 9.0, Acrobat Reader, WinZip.

Laser Printer: HP LaserJet 2015 - **1 No.**

Dot Matrix Printer TVS MSP 345 Champion Dot Matrix Printer - **2 Nos.**

HP Scanjet 4010 - **1 No.**

UPS Numeric 6KVA Online UPS- **2 Nos.**

Switches: 24 Port Cisco Catalysts 2970 series switches - **2 Nos.**

3)CSE Block It laboratory:-

SERVER - 2 Nos.

- **WINDOWS 2000 SERVER**
 - IBM X 3400 INTEL XEON 5410 (QUAD CORE),233GHZ, 2GB RAM,146GB SAS HDD
- **LINUX SERVER**
 - IBM X3100 M4 INTEL XEON(QUAD CORE), 3.10GHZ, 8GB RAM(2X4GB), 1TB SATA HDD (2X500GB)

CLIENTS – 46 Nos.

- ASSEMBLED PETIUM IV,1GB RAM,80 GB HDD - 23 Nos
- ASSEMBLED PETIUM IV,512 MB RAM,80 GB HDD - 10 Nos.
- DUAL CORE,1GB RAM,80 GB HDD - 1No
- CORE 2 DUO, 2 GB RAM,160 GB HDD - 1 No
- CORE I3,4 GB RAM,500 GB HDD (DELL OPTIPLEX3010) - 9 Nos
- CORE I3,4 GB RAM,500 GB HDD (DELL VOSTRO) - 2 Nos

OS AND APPLICATION LOADED

- WINDOWS 7 PROFESSIONAL, WINDOWS XP PROFESSIONAL,WINDOWS 2000 PRFESSIONAL,MS OFFICE 2003 AND SYMANTEC ENPOINT PROTECTION VER.11

PRINTER

- EPSON-DOT MATRIX - 1 No

UPS

- NUTECH 7.5 KVA ONLINE UPS - 2 Nos
- NUMERIC 3 KVA ONLINE UPS - 1 No

4)Marine Block It laboratory:-

Windows 2008 Enterprise(x64) Server - 1No

IBM Tower Model Server X3400 M3 Specification

- IBM 69Y4356 RF3 Motherboard with Intel 5520 Chipset, Intel Xeon E5607, Quad Core 2.27 GHz, 2 X 300 GB 10K RPM 2.5” Hot swap SAS HDD, 4 GB DDR3 LP DIMM Memory

Fedora 17.0 Linux Server – 1No

- IBM Tower Model Intel Xeon E3-1220 v1.2 CPU (Quad Core), 3.10 Ghz, 1x4GB DDR-3Memory, 2x500 GB SATA 7200 RPM, 3.5" Swap HDD

Clients: 75 [72+3 without network connections]

Configuration	Count
Acer Intel Core2 Duo E8400 @ 3.0 GHz Processor, Acer G31T-M5 1.0 Motherboard, 2 GB DDR-2 RAM, 160GB Hitachi SATA HDD	30 Nos
Assembled Intel Core 2 Duo CPU E4400 @ 2 GHz Intel D945GCNL Desktop Board, 2 GB DDR-2 800MHz RAM 80 GB Seagate 7200-RPM SATA HDD	25 Nos
Dell Vostro Mini tower 460 - Intel Core - i3 2100 (3.1GHz), 4GB(2x2GB)DDR3, RAM, 500GB HDD	12 Nos
Dell Optiplex 3010 – Intel Core - i3 (3.30 GHz), 4GB DDR3 RAM, 500GB WDC HDD	08 Nos

OS Loaded:

- All clients are loaded with **Dual Boot O.S (XP Professional & Cent O.S 5.2)**

Application Software Loaded:

- **Languages:** C, C++, Java1.6.0_38, HTML,
- **Data Base:** MS-Access, MySql 5.0 (Free ware),
- **Packages:** Ms Office 2003, Symantec End Point Protection v12.0, Acrobat Reader, WinZip.

Laser Printer-HP LaserJetPro M1136 with Scanner-1 No

Dot Matrix Printer-TVS MSP 345 Champion Dot Matrix Printer-1 No

Epson LQ-2070 Dot Matrix Printer-1 No

LCD Projector-Hitachi LCD CP-RX-82 Projector-1 No

External DVD Writer Sony-1 No

UPS -Liebert 6 KVA Online UPS -2 Nos With 16 Exide Batteries (26Ah-12V)

Switches:Baystack 100/1000 24 ports Switch- 3 Nos

DAX 16 – Ports Unmanaged Switch -1 No

All systems are networked through a 10/100 Mbs switch. Internet facility available.

5)PG laboratory-

Servers: 01 Nos

- Windows 2008 Enterprise(x64) Server - 1No
- IBM Tower Model Server X3400 M3
- Specification: IBM 69Y4356 RF3 Motherboard with Intel 5520 Chipset, Intel Xeon E5607, Quad Core 2.27 GHz , 2 X 300 GB 10K RPM 2.5” Hot swap SAS HDD, 4 GB DDR3 RAM.

Clients : 24 Nos

Dell Vostro Mini tower 460 - Intel Corei3 2100 (3.1Ghz),

4GB(2x2GB),DDR3 RAM, 500GB HDD-20No

Acer Intel Core 2 Duo Processor E7500 2.93GHz, G43 Chipset Mother Board, 3GB DDR3 RAM @ 1066mhz, 320 GB Sata HDD-4 No

OS Loaded: Clients are loaded with Windows 7 (or) XP Professional

Application Software Loaded:

- **Languages:** MS Office 2007, Symantec End Point Protection, Java, MATLAB
- **Laser Printer:** HP LaserJetPro M1136 with Scanner - **1 No**
- **UPS**
- Nutech 6KVA Online UPS - **2 Nos**
- Consal 3KVA UPS - **1No**

30. Number of students receiving financial assistance from college, university, government or other agencies:-

Name	2008-2009	2009-2010		2010-2011		2011-2012		2012-2013
	Even	Even	Odd	Even	Odd	Even	Odd	Odd
MERIT	3	3	3	3	3	4	3	4
MERIT CUM MEANS	2	3	3	3	3	4	3	3
ECONOMIC MEANS	24	3	16	2	12	-	5	-
BOOKS&INSTRUMENTS	-	10	-	-	8	-	-	9
TOTAL	29	19	22	8	26	8	11	16

31. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:-

2009-10

S.No	Date	Title of Guest Lecture	Resource person
1	25 th Feb 2009	"Electronic Payment Systems and E-Commerce"	Mr.Sivaraman Ilango, Senior IT Consultant
2	13 th April 2009	"Data mining techniques".	Shri Prasad Garigipati System Technology Manager, Ericsson India Private Ltd, Chennai
3	24 th July 2009	"Software Testing - An Overview".	Mr Anjan Annamanei, Director, Franklin Templeton, Chennai
4	4 th August 2009	"Smarter Planet"	Mr. Subramani Ramakrishna, Sr. Manager, IBM.
5	2 nd Sep 2009	"Green Computing"	Mr. Prabal Mall, Vice President, Expertus Limited

6	11 th Sep 2009	"Software Testing "	Mr.Sebastian,HOD/IT Swineburne University Australia
7	6 th January 2010.	"Information Security on BPO's "	Mr.Saravanan Thambusamy, Vice President, Technolody Allsec Technologies
8	27 th Mar 2010	"Future Computing Technologies"	Mr. Jeyaprabhu, Managing Director, FLSWAIR, Chennai

2010-11

S.No	Date	Title of Guest Lecture	Resource person
1	22nd July 2010	"IT in Supply Chain"	Mr.M.S.Ganesh, Director- Operations, Dell India Pvt. Ltd.,
2	13th August 2010	"Trends and Careers in IT "	Mr.Hariharan Vaidyanathan Senior Business Analyst, Cognizant Technology Solutions, Chennai
3	1 st September 2010	"Brain Modeling: The Computing Challenges"	Prof.N.Venkateswaran, Founder-Director, Waran Research FoundaTion (WARFT)
4	11 th October 2010	"Cloud Computing"	Mr.Jayabalan, Chief Technical Officer, Net Magic Solutions Ltd.
5	25 th January 2011	"Role of IT in Media and Entertainment"	Mr.Sreehari Krishnapuram Associate Vice President, Media & Entertainment, HCL Technologies
6	21 st February 2011	"Network Security and Ethical Hacking"	Mr.Saravanan Prabhakaran Security Team Incharge, Infosys

2011-12

S.No	Date	Title of Guest Lecture	Resource person
1	27 th July 2011	"Disaster Recovery and Rehearsal in Information Technology"	Mr.K.N.Ganesh, Vice President-Education and Certification (PMI), Program Manager, HP GLOBOSOFT, DELL India Pvt.Ltd.
2	16 th August 2011	"Modeling and Simulation "	Prof N. Vekateswaran, Founder-Director, Waran Research Foundation (WARFT),

3	29 th September 2011	"Recent Trends in IT industry"	Mr. Velan Masilamani Arcot Raja, Principal Consultant, Microsoft Delivery, Hexaware Technologies
4	25 th January 2012	"Digital Commerce in the Retail Industry"	Mr.V. Thothathri Vice President, Delivery Head – Retail, CPG Logistics and Life Sciences, Infosys
5	27 th January 2012	"Start ups in India"	AnkitKumar Chhajer Co-founder and Director Cheeni Labs, chennai
6	26 th March 2012.	"Distributed Computing"	Ms. Sujitha N.K, Senior Software Engineer, Ericsson, Chennai
7	12 th April 2012.	"Cloud Computing"	Mr. L. Ravindranath, GLOBAL PRACTICE DIRECTOR, HCL, Chennai

2012-13

S.No	Date	Title of Guest Lecture	Resource person
1	30 th July 2012	“Cloud Computing”	Mr. Magesh Venkataramani, General Manager , Banking & Capital Markets Computer Science Corporation, Chennai.
2	23th August 2012	“Recent Trends in IT industry”	Mr.K.Govindarajan, Partner and Director, Global Head-Administration, Polaris.
3	15 th October 2012	“Ethical Hacking and Computer Forensics”.	Mr.Ram Kumar, CEO, Gemini Communications Limited (GCL)
4	11 th January 2013	“Higher Education in Germany”	Mr.S.Sathish Kumar , Associate Project manager Werum software systems, Lueneburg, Germany

32. Teaching methods adopted to improve student learning:- smart classroom, multimedia projectors.
33. Participation in Institutional Social Responsibility (ISR) and Extension activities:-
 - Ethical values and environmental awareness through guest lectures/NSS/Student club activities

- Field study and Field work through the various student clubs like NCC, NSS.

34. SWOC analysis of the department and Future plans:-

STRENGTHS-S:-

- 1) Excellent Infrastructure
- 2) Funded Projects
- 3) Highly Competent, motivated and dedicated work force
- 4) Higher number of faculty members under faculty development program such as Phd.
- 5) Enhanced faculty qualification index
- 6) High faculty cadre ratio
- 7) Higher number of research publications
- 8) Industry, Institute Interaction
- 9) ISO 9001:2008 based work activities
- 10) High number of employable graduates-Excellent placement record.
- 11) High level encouragement of students in the participation of extra-curricular and co-curricular activities.
- 12) Incentives for achievements ,awards, publications by faculty and students.
- 13) Excellent alumni

WEAKNESS-W:-

- 1) Lack of adequate faculty quarters thus necessitating long and tedious travel by faculty and staff
- 2) Less number of ICT enabled classrooms
- 3) Lack of Department seminar hall.
- 4) Limited Wi-fi enabled campus
- 5) Limited Provision of individual faculty computer systems.

OPPORTUNITIES-O:-

- 1) To evolve into a centre of research excellence
- 2) To enhance faculty exchange programme by improving the collaboration with other universities of national and international reputation.
- 3) Enhanced interaction with alumni both national/international for the development of the institution to great heights

CHALLENGES-C:-

- 1) To prepare students in the face of the industrial recession.
- 2) To orient and motivate the current generation students in the fundamental aspects of engineering.
- 3) To attract industry in the participation of institutional academic and extra academic activities.
- 4) To raise upto the level of global educational standards through infrastructure, man power and research development by striving to achieve autonomous/university states.

FUTURE PLANS OF DEPARTMENT

I. Student and Faculty Development:

- a) Improving the pass percentage of the Department to better than 90 %, in every semester.
- b) Increasing the existing intake of UG to 180 and PG to 25.

- c) Starting of one more PG Course with specialization in Mobile & Pervasive Computing.
- d) Improving the Cadre ratio and obtaining NBA Accreditation for both UG and PG.
- e) Conducting one International Conference along with other Departments in three years and at least one Faculty Development Programme & two Workshops per year.

II. Research and Development.

- a) Faculty Qualification to be improved: at least 5 faculty members to acquire PhD in the Dept.
- b) At least 10 Faculty members to register and pursue PhDs progressively.
- c) Research Centre guides and enables at least 4 scholars in obtaining PhD.
- d) Obtaining a minimum of one Patent.
- e) Getting at least 5 more Research / funded Projects.
- f) Publishing at least two Research Publications per each research scholar.

III. Expanding Research Activities in following areas.

Initiating research activities in technology areas such as:

- a. Cloud & Grid cloud computing
- b. Wireless Communication & Networking.
- c. Image Processing.

Evaluative Report of the Departments

Department : MARINE ENGINEERING

1. Name of the department : **Marine Engineering**
2. Year of Establishment: **1998**
3. Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG / PG	Name of the program	Year of Establishment	Approved intake
UG	B. E. - Marine Engineering	1998	30

4. Names of Interdisciplinary courses and the departments/units involved

Semester	Subject code and name	Branch of study	Credits
I semester	<u>Technical English – I</u>	Common to all branches	4
	<u>Mathematics –I</u>	Common to all branches	4
	<u>Engineering Physics – I</u>	Common to all branches	3
	<u>Chemistry for Marine Engineering</u>	Marine Engineering	3
	<u>Engineering Graphics</u>	Common to all branches	5
	<u>Fundamentals of Computing and Programming</u>	Common to all branches	3
	<u>Basics of marine engineering</u>	Marine Engineering	
II semester	<u>Technical English – II</u>	Common to all branches	4
	<u>Mathematics –II</u>	Common to all branches	4
	<u>Engineering Physics – II</u>	Common to all branches	3
	<u>Basic Electrical and Electronics Engineering</u>	Common to all branches	3
	<u>Marine Engineering Thermodynamics</u>	Marine Engineering	3
	<u>Engineering Mechanics</u>	Common to all branches	4
III semester	<u>Transforms And Partial Differential Equations</u>	Marine Engineering	4
	<u>Marine Hydraulics & Fluid Machinery</u>	Marine Engineering	3
	<u>Manufacturing Technology</u>	Marine Engineering	3
	<u>Marine Electrical Machine – I</u>	Marine Engineering	3

IV semester	<u>Mathematics Applied for Marine Engineering</u>	Marine Engineering	3
	<u>Strength of Materials</u>	Marine Engineering	3
	<u>Marine Electrical Machines – II</u>	Marine Engineering	3
	<u>Mechanics of Machines – I</u>	Marine Engineering	3
	<u>Marine Electronics</u>	Marine Engineering	3
V semester	Mechanics of Machines – II	Marine Engineering	3
VII semester	Marine Electrical Technology	Marine Engineering	
	ELECTIVE – I		3
VIII semster	Environmental Science and Engineering	Common to all branches	3
	Elective II		3

5. Annual/ semester/choice based credit system (programs wise)

Program	Annual / Semester	Credit
B. E – Marine Engineering	Semester based system VIII semesters – Direct Entry VI semesters – Lateral Entry	Credit based system

6. Participation of the department in the courses offered by other departments
NIL

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

Marine Workshop Practical and afloat training done in the 6th semester at Cochin Shipyard STCW courses done at HIMT Chennai at end of 7th semester

8. Details of courses/programs discontinued (if any) with reasons: **Nil**

9. Number of Teaching posts

	Sanctioned	Filled
Professors	3	3
Associate Professors	Nil	nil
Asst. Professors	9	8

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.,)

Sl No	Name of the Staff	Designation	Specialization	Qualification	Previous Experience
01	HAJIB RAGHAVAN PREMNATH	PROFESSOR & HEAD	MARINE (MOT-CLASS-I)	B.Tech (ELECTRICAL ENGG) CLASS SECOND, Certificate Course (MEO CLASS (1) AS 1 CLASS (MOTOR) Class : FIRST	Professor, SVCE till to date, Great Eastern Institute of Maritime Studies (01 Yrs 01 Months), Samudra Institute of Maritime Studies – (06 Months), 30 Years Sea service from Junior Engg to Chief Engg
02	KASIRAJU VENKATA SIVANARAYANA	Professor & Dean (Students Affairs)	MARINE (MOT-CLASS-I)	Certificate Course CERTIFICATE OF COMPETENCY AS 1 CLASS ENGR (MOTOR) BE (MECHANICAL ENGG WITH MARINE ELECTIVE) Class : FIRST	Irano Hind Shipping Company,(Chief Engg 01 Yrs) Sanmar Shipping Corporation, Chennai, (Chief Engg 01 Yrs) Goa Shipyard Ltd, DY Manager/Manager/DGM/AGM (14 Yrs) Scindia SteamNav Co., Junior Engg/Chief Engg (10 Yrs) Shipping Corporation of India, Mumbai,Chief Engg 02 Yrs) Almawashi Almukarish United Co. Jeddah, (Chief Engg 01 Yrs) Marmugoa Port Trust (Chief Engg 01 Yrs)
03	KRISHNAN.S	Professor & Dean (Academic)	MARINE (MOT-CLASS-I)	MOT . CERTIFICATE (MOTOR) MARINE ENGINEERING) DME (MECHANICAL ENGG)Class : SECOND	The Great Eastern Shipping Company Limited , Mumbai. III ,II & Chief Engg (14 Yrs) Scindia Steam Navigation Company Ltd., V & IV Engg (06 Yrs)
04	ANANDAN.M	Assistant Professor	Thermal engineering	ME (MECHANICAL Enng) Class – FIRST, BE (MECHANICAL Enng) Class – FIRST, Certificate Course CERTIFICATE OF COMPETENCY MARINE OFFICER	Anglo – Eastern Group, Hongkong,Marine Engg (01 Yrs) Neptune Shipmanagement services (Pte) Ltd, Singapore Marine Engg (04 Yrs) C Abdul Hakeem College of Engg Technology, Lecturer Melvisharam (11 Months) C Abdul Hakeem College of Engg Technology, Lecturer (08 Months), Assistant Professor, SVCE Till to Date

05	GAJENDRAN. M	Assistant Professor	Energy engineering	ME (MECHANICAL ENGG) Class : FIRST with Distinction BE (MECHANICAL ENGG) Class : FIRST D.M.E Class : FIRST	Assistant Professor, SVCE Till to Date Instructor, SVCE (16 Yrs)
06	POOVAZHAGAN .L	Assistant Professor	Manufacturing eng	M.E.(Manufacturing Engg) Class : FIRST with Distinction BE (MECHANICAL ENGG) Class : FIRST	Assistant Professor, SVCE Till to Date IFET College of Engg, Villupuram, Lecturer (03 Yrs, 09 Months) PSB polytechnic, Lecturer, (01 Yrs, 07 Months) Sri Krishna Polytechnic, Arakkonam, Lecturer (02 Yrs, 04 Months)
07	GURUSAMY.V	Assistant Professor	Eng Design	M.E.(ENGINEERING DESIGN) Class : FIRST BE (MECHANICAL ENGG) Class : FIRST	Assistant Professor, SVCE Till to Date, Sri Chandrasekharendra saraswathi Viswa Maha Vidyala Kanchipuram, Lecturer (01 Yrs, 10 Months) Tirumalai Engg College, Kilambi, Lecturer (02 Yrs 09 Months) Sree Sastha Institute of Engg & Technology, Lecturer (01 Yrs)
08	SEENIVASAN.S	Assistant Professor	Eng Design	M.E.(ENGINEERING DESIGN) Class : FIRST BE (MECHANICAL ENGG) Class : FIRST	Assistant Professor, SVCE Till to Date, Rajalakshmi Engg College, Lecturer (01 Yrs 09 Months) Jayaram College of Engg & Technology, Trichy, Teaching Asst. (06 Months)
09	RAMESHKANNAN. G	Assistant Professor	CAD/CAM	M.E.(CAD/CAM) Class : FIRST with Distinction BE (MECHANICAL ENGG) Class : FIRST	Assistant Professor SVCE, Till to date
10	BIJU THOMAS	Assistant Professor	MBA General	MBA (General) Class : FIRST BE (Marine Engg) Class : FIRST Certificate Course (CERTIFICATE OF COMPETENCY : MEO CLASS) Class	Assistant Professor SVCE, Till to date OEC, Mumbai –IV Engineer (02 Yrs) MSC Ship Management, Hongkong-IV Engineer (02 Yrs) SCI , Mumbai-V Engineer

				: FIRST	(01 Year) SB Vignesh Marine Training Centre, Trainee Marine Engineer (02 Years)
11	SENTHIL VELAN .V	Assistant Professor	Operations	B.Tech (PRODUCTION ENGG) Class : FIRST MBA (OPERATIONS) Class : FIRST	Assistant Professor, SVCE Till to Date Research Associate , SVCE, Tespa Tools (Pvt) Ltd. (Enng Trainee) 01 Yrs Devi Polymers (Pvt) Ltd.(Enng Production) 05 Yrs 06 Months

11. List of senior visiting faculty NIL
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty: **NIL**
13. Student -Teacher Ratio (programme wise)

UG

Sl.No	Academic Year	Sanctioned Intake(UG)	Faculty strength	Ratio
1	2009-2010	120	11	1:10.9
2	2010-2011	120	11	1:10.9
3	2011-2012	120	11	1:10.9
4	2012-2013	120	11	1:10.9

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Not applicable**
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG. – as mentioned in 10.
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

I.NATIONAL FUNDING AGENCIES AND GRANTS RECEIVED:

TOPIC: ANN MODELLING OF PULSED MIG WELDED MEGNESIUM ALLOY PLATES

AICTE FUNDED (RPS SCHEME): **RS.18,00,000/-**

DURATION PERIOD : **JUNE 2013-MAY 2016.**

CHIEF CO-ORDINATOR : **DR.N.MUTHUKRISHNANCO-PRINCIPAL**

INVESTIGATOR : **V.GURUSAMY**

II.INTERNATIONAL FUNDING AGENCIES AND GRANT RECEIVED:

NIL

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received : **Nil**
18. Research Centre /facility recognized by the University

19. Publications: **Nil**
- a) Publication per faculty
- Number of papers published in peer reviewed journals (national / international) by faculty and students
 - Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
 - Monographs
 - Chapter in Books
 - Books Edited
 - Books with ISBN/ISSN numbers with details of publishers
 - Citation Index
 - SNIP
 - SJR
 - Impact factor
 - h-index
20. Areas of consultancy and income generated
21. Faculty as members in
- a) National committees b) International Committees c) Editorial Boards....
- Nil**
22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/program
All the students of MARINE are doing in-house project.
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies **Nil**
23. Awards/ Recognitions received by faculty and students. **Nil.**
24. List of eminent academicians and scientists/ visitors to the department - Nil
25. Seminars/ Conferences/Workshops organized & the source of funding
- a)National
- b)International

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.E.MARINE – 2009			27	3 [#]	
B.E.MARINE – 2010			28	1 [#]	
B.E.MARINE – 2011			24	6 [#]	
B.E.MARINE – 2012			27		

M=Male F=Female ,[#]= LATERAL ENTRY

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E.MARINE			
2009-2010	100%	NIL	NIL
2010-2011	100%	NIL	NIL
2011-2012	100%	NIL	NIL
2012-2013	96.3%	3.7%	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? NIL

29. Student progression

Student progression	Against % enrolled
UG to PG	NIL
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed Trough	2008-09 – 24/29 = 82.75 %
• Campus selection	2009-10 – 15/24 = 62.5 %
• Other than campus recruitment	2010-11 – 20/22 = 90.9 %
	2011-12 – 15/23 = 65.2 %
Entrepreneurship/Self-employment	NIL

30. Details of Infrastructural facilities

a) Library

Library holdings	Year -1	Year – 2	Year – 3	Year – 4
	2012-2013	2011-2012	2010-2011	2009-2010
	Number	Number	Number	Number
Titles	491	511	218	92
Volumes	1073	2316	506	137
Total Cost	5,56,873	7,27,091	24,319	85,099

Facilities available in Central library are:

40 computers are provided with internet facilities and having following ICT facilities

Online Public Access Catalogue (OPAC)

Reprographic Service

Book Reservation

Internet Access

Reference Service

Conference Alert Service (Staff, Student)

Competitive Exam Guides

Multimedia Service

Inter Library Loan Service

Online Book Renewal

Digital Library- E-Books, E-Journals, E-Lectures,

b) Internet facilities for Staff & Students

Mechanical department is provided with 110 computers connected with internet facility across various lab.

All staff rooms are equipped with internet facilities.

c) Class rooms with ICT facility

Two class rooms of mechanical department are provided with Smart Board.

All class rooms are equipped with OHP's and Black Boards.

d) Laboratories

i. Laboratory Space details are as follows:

Sl .No	Name of the Course	Name of the Laboratory/ Workshop	Total Area of Laboratory/Workshop (carpet area) (Sq.Meters)	Major Experiments
1	B.E. Marine Engineering	Basic Workshop	387	<ul style="list-style-type: none"> • Fitting • Welding • Sheet metal working
2		Marine Propulsion Lab	624	<ul style="list-style-type: none"> • Marine Main Engine • Air Compressor • Main Engine Auxiliary Machineries • Ship's Generator
4		Dismantling & assembling Lab	272	<ul style="list-style-type: none"> • Dismantling and Assembling of pumps, valves & Marine auxiliary equipments • Steering Gear • Incinerator

				<ul style="list-style-type: none"> • Heat Exchanger • Engine Room Boiler • Sewage Treatment Plant • Centrifugal Pump • Gear pump • Cylinder head mountings
5		Fire Fighting and Assembling Lab	272	<ul style="list-style-type: none"> • Water Type, Foam Type, CO 2, DCP Extinguisher • Sensors • Fire alarm panel two zones conventional type • Fixed CO2 fire fighting system • Cargo Smoke Sampling Alarm • Portable Pump with engine • Automatic sprinkling system • Fire fighting exercise by using suitable extinguishers • Fire fighting exercise by using fire main system • First Aid
6	B.E. Marine Engineering	Hydraulic and Pneumatic Lab	92	<ul style="list-style-type: none"> • Operational of Hydraulic units with various position • Operational of Pneumatic units with various position • Operational of Electro Hydraulic and Pneumatic unit
7		Engine Room Simulation Lab	136	<ul style="list-style-type: none"> • Nothing Available • Resources Bunkered • DG Operational • Voltage Available • Steam Available • Main Engine Stopped • Main Engine Running • Manual Operation • Emergency Operation • Fault Creating and rectifying by master slave method
8	B.E. Marine	Air Condition and	60	<ul style="list-style-type: none"> • A/C Plant, • Refrigeration Plant

	Engineering	Refrigeration Laboratory		<ul style="list-style-type: none"> • Cold Room
9		Seamanship & Navigation Laboratory	92	<ul style="list-style-type: none"> • Boat Davit • Ship's Mast • Gyro Compass • Shackles • Different Knots & Pulley
10		Electrical Lab	92	<ul style="list-style-type: none"> • Ship's Switch board • Ship's Auxiliary Electrical equipments

ii. Equipments available in Marine Department laboratories

MARINE ENGINEERING DEPARTMENT

Propulsion and Power Plant Laboratory

TOTAL COST

1. Main Engine Jacket Water Cooler
 2. Duplex Filter
 3. Cooling Water Pump with Air Extraction Pump
 4. Lubrication Oil Pump
 5. Sea Water Ballast Pump
 6. Auxiliary Sea Water Pump
 7. Boiler Feed Multi Stage Pump
 8. Heavy Oil Purifier Map x 207
 9. Diesel Oil Purifier make – Mab 206
 10. Fuel Oil Booster Pump
 11. Lub. Oil 4 stage Filter
 12. Reciprocating Bilge Pump
 13. Main Engine Air Receiver
- (Total Costing Item No. 1 to 13) Rs. 2,53,000.00**
14. Main Propulsion Engine make – 1H1 Semi Pielstick
Type : 12 Pc 2v 1D – 600, HP – 5130, RPM – 500 **Rs. 18,40,000.00**

15. D.G. Set make – Caterpillar 370 KVA.
 16. Lubricating oil Cooler
 17. High Pressure Air compressor
 18. Generator Panel Board
 19. Nozzle Tester with injector and pressure pipe.
- (Total Costing Item No. 15 to 19)Rs. 2,97,000.00**
20. ELGI air compressor model TS 07 12CH **Rs. 52,584.00**

M.A.N. B & W ALPHA ENGINE

21. Piston Crown
 22. Cylinder head with relief valve.
 23. Piston with connecting rod
 24. Liner.
- (Total Costing Item No. 21 to 24) Rs. 40,000.00**

Grand Total Rs. 24,82,584.00

Auxiliary Machinery Laboratory Dismantling and Assembling Laboratory

	<i>TOTAL COST</i>
1. Governor Make – Wood ward Type – PGA	2,97,000.00
2. Wildom Pump Type – Husky 2150	8,000.00
3. Oily water separator	15,000.00
4. Sewage plant complete make – Taiko Type – BFT – 40 Type II	60,000.00
5. Vertical Two stage pump make – Teikoku Type – VDP	1,00,000.00
6. Screw Pump make – NEBB Type – MQTFVA 74A	60,000.00
7. Oily water separator make – R.W.O Type – skit/s 2.5	55,000.00
8. Anchor chain with 2 Kenster	20,000.00
9. Chain Block 10 Tons.	8,000.00
10. Chain Block 5 Tons.	5,000.00
11. Steering gear complete with three electric panel and gyro.	

	Make – Maszyna sterowa. Type – MS63 N18.	3,00,000.00
12.	Horizontal Centrifugal Pump. Make – Teikoki Type – M83. 35,000.00	
13.	Globe, Gate, Butterfly & Quick Closing .	40,000.00
14.	Crown shakle (Included item No. 08)	
15.	Incinerator make – Hamworthy Type – 05392.	80,000.00
16.	Reciprocating Pump.	50,000.00
17.	Gear Pump Make – Sihi – Maters Type – R3/60 FVR	20,000.00
18.	Temp. Controller	10,000.00
19.	Heleshaw pump	40,000.00
20.	Boiler safety valve	20,000.00
21.	Deck Air Compressor with Air Bottle Make – Atlas Copa Type – BT4	50,400.00
22.	Heat Exchanger Make – Alfa Laval Type – P25 – Hx	1,00,000.00
23.	Bioler Gauge glass complete with drain cock.	10,000.00
24.	Pressure Gauges	3,500.00
25.	Bilge Ballast Eductor	20,000.00
26.	Starter For Compressor	
27.	Temperature Controller	10,000.00
28.	Cargo Winch	1,15,000.00
29.	Chemical Tanker Pump with Controls make – Framo	1,43,000.00
30.	Turbine Pump complete unit	1,90,000.00
31.	Sea valve chest body.	
32.	Heat Exchanger (Tube Type)	
33.	Crank shaft	
34.	Turbo charger	
35.	Gauge Glass	
36.	Exhaust valve seat	
37.	Compensator.	40,000.00
	Grand Total	19,04,900.00

MARINE BOILER LABORATORY FIRE FIGHTING LABORATORY

	TOTAL COST
1. Fire Man Outfit set	6,000.00
2. Fixed Co ₂ Fire Fighting System Make – Nohih Bosa /Kogyo	1,85,000.00
3. Fire Alarm Panel Two zone conventional Type.	1,80,000.00
4. Smoke detector	1,800.00
5. Photo Electric Detector	2,400.00
6. Heat Detector	1,000.00
7. Rate or Raise Detector	2,400.00
8. Response Indicator	175.00
9. Fire Proximity Suit	28,000.00
10. Composite Biler Make – Tvornica Parnih kotlova Type – KCN / V22.5 m ³	3,80,000.00
11. Fire Hoses Canvas Lineo Nith Brass Couplings	3,531.60
12. Fire Hose Jet Cum Spray 2.6”	2,252.00
13. Self Contained breathing apparatus	84,830.00
14. Niel Roberstan Stretcher	3,102.50
15. Life lining for Fire Fighting .	1,360.00
16. Smoke helmet Fresh Fire Breathing Apparatus	16,065.00
17. Fire Fighting 9 Ltrs. Tech. Foam Extinguisher.	1,400.00
18. Fire Extinguisher DCP 5kg.	1,400.00
19. Co2 Extinguisher 4.5 kg	3,600.00
20. First Aidkit	900.00
21. Water, Co2 type – Fire extinguisher 9 Ltrs.	1,200.00
22. Hose Cabinet.	2,300.00
23. Non Portable 50 Ltrs.(Mechanical Foam)	15,000.00
24. Helmet Gum Boots	3,600.00
25. Resuscitator	1,000.00

26.	Jet nozzle	700.00
27.	Hooter	1,000.00
28.	Ignitor	
29.	Photo Electric cell	
30.	Cargo smoke sampling alarm unit make – Nohmi Bosai Kogyo Type – Fag 511 –12	72,000.00
31.	Fresh water generator complete with distillers Ejector pump with startor box.	1,51,500.00
32.	Portable pump with engine	1,50,000.00
33.	Fire Hose 30mtrs with male & female couplings.	10,920.00
34.	Fire Hydrant 2 ½ Gunmetal type as per IS – 2500	6,000.00
35.	Fire Man AXE Insulator.	250.00
36.	International shore coupling 2 ½”	2,865.00
37.	ELGI Air compressor Model LG – 01100 (1 HP) 2PH1 Tank 45 litres.	20,370.00
TOTAL COST		13,43,921.10

REFRIGERATION AND AIR CONDITIONING LABORATORY

TOTAL COST

- Air conditioning Compressor Carrier Motor,
187ondenser, Receiver with Gauge glass Drier and electric starter. 1,60,000.00
 - Refrigeration plant make – carrier Type – SF 40 1,40,000.00
- GRAND TOTAL Rs. 3,00,000.00*

- Number of students receiving financial assistance from college, university, government or other agencies: **Not applicable**
- Details on student enrichment programs (special lectures / workshops / seminar) with external experts:

Year	Guest Lectures	Workshops	Conferences	Symposiums	Internships	Industrial visits
2009-10	02	-	-	01	-	01
2010-11	04	-	-	01	-	01
2011-12	03	-	-	01	-	02
2012-13	04	-	-	01	-	01

33. Teaching methods adopted to improve student learning:
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
35. SWOC analysis of the department and Future plans

Strength

- Enthusiastic faculty
- Professors with Industrial Background
- Versatile and Talented faculty
- Well experienced supporting staff

Opportunity

- Continuous knowledge updation
- Setting up research facilities
- Innovative teaching
- Industrial contacts

Weakness

- Consultancy
- Research partnership
- International collaboration

Challenges

- Fluctuation in shipping job requirements
- Employment of cadets
- Competency of global standards

Future (Five year) Plan of the Marine Department

1. Increase in intake of B.E.(Marine Engg) students strength from 30 to 40.
2. Ensuring placement for all eligible students
3. Enhancing Research and Consultancy work in the department. We have started the Welding Research cell. AICTE has granted funds to us. We hope to develop this cell and indulge in useful work.
4. We can consider teaching welding to outsiders in due course.

Evaluative Report of the Department

Department: Mechanical Engineering

- 1 Name of the department : **Mechanical**
- 2 Year of Establishment: **1985**
- 3 Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

UG / PG	Name of the program	Year of Establishment	Approved intake
UG	B. E. - Mechanical Engineering	1985	120
PG	M. E – CAD	2005	18
PG	M. E – Internal Combustion Engines	2012	18

- 4 Names of Interdisciplinary courses and the departments/units involved

Semester	Subject code and name	Branch of study	Credits
I semester	GE 2111 and Engineering Graphics	Common to all branches	05
I semester	GE 2111 and Engineering Graphics	Common to all branches	02
II semester	GE 2152 Basic civil and Mechanical Engineering	Common to all circuit branches	04
II semester	ME 2151 – Engineering Mechanics	Common to all non-circuit branches	04
IV semester	EE 2252 – Power plant Engineering	Electrical and Electronics Engineering	04

- 5 Annual/ semester/choice based credit system (programs wise)

Program	Annual / Semester	Credit
B. E – Mechanical Engineering	Semester based system VIII semesters – Direct Entry VI semesters – Lateral Entry	Credit based system
M. E – CAD	Semester based system IV semesters	Credit based system
M. E – IC Engines	Semester based system IV semesters	Credit based system

- 6 Participation of the department in the courses offered by other departments

Semester	Subject code and name	Branch offering the course	Credits
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III semester	ME 2205 – Electrical drives and control	Electrical and Electronics Engg.	03
III semester	ME 2209 – Electrical Engineering laboratory	Electrical and Electronics Engg.	02
IV semester	ME 2255 – Electronics and Microprocessors	Electronics and Communication Engg.	03
VII semester	ME 2401 – Mechantronics	Electronics and Communication Engg.	03

7 Courses in collaboration with other universities, industries, foreign institutions, etc. **Nil**

8 Details of courses/programs discontinued (if any) with reasons: **Nil**

9 Number of Teaching posts

	sanctioned	Filled
Professors	5	5
Associate Professors	8	8
Asst. Professors	14	14

10 Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.A.VENKATESAN	M.E. PhD.	Professor	Production	24	-
RAMESH S	M.E.	Professor	Machine Tool	23	-
Dr. RAMESH R	M.E. PhD.	Professor	CAD	8	-
Dr. PITCHANDI K	M.E. PhD.	Professor	Thermal	11	-
Dr. J VENKATESAN	M.E. PhD.	Professor	Thermal	14	-
BADRINATHAN K S	M.E.	Associate Professor	Manufacturing	22	-
Dr. T. RAJA	M.E. PhD.	Associate Professor	Engineering Design	15	-
RAMESH BABU S	M.E.	Associate Professor	Production	14	-
MURUGAN R	M.E.	Associate Professor	Engineering Design	13	-
S GOPINATH	M.E.	Associate Professor	Manufacturing	21	-
BALASUBRAMANIAN A	M.E.	Associate Professor	Internal Combustion	10	-
ILAIYAVEL S	M.E.	Associate Professor	Production	12	-
MOHANDASS M	M.E.	Associate Professor	Production	12	-
R KALIYAN SUNDER	M.E.	Assistant Professor	Thermal	15	-
C SENTHAMARAI KANNAN	M.E.	Assistant Professor	CAD	13	-
PREM ANANTH M	M.E.	Assistant Professor	CAD	11	-
PONNUVEL S	M.E.	Assistant	CIM	9.5	-

		Professor			
AROCKIA SELVAKUMAR A	M.E.	Assistant Professor	CAD	11	-
NATARAJAN S	M.E.	Assistant Professor	Thermal	7	-
RAGHU P	M.E.	Assistant Professor	Internal Combustion	11	-
SRIDHARAN V	M.E.	Assistant Professor	Advanced Mechanical Engineering	6.3	-
ARUMUGAM S	M.E.	Assistant Professor	Internal Combustion	2	-
M. MAHESWARAN	M.E.	Assistant Professor	CAD	5	-
G. SARAVANARAM	M.E.	Assistant Professor	CAD	2	-
G KIRUBAKARAN	M.E.	Assistant Professor	CAD	1	-
MANIKANDARAJA. G	M.E.	Assistant Professor	CAD/CAM	1	-
M KALAIMANI	M.E.	Assistant Professor	Product Design	5	-

11 List of senior visiting faculty

Name	Qualification	Designation	Specilization
Dr.T.V.BALASUBRAMANIAN,	M.E. PhD.	Visiting Professor	Design

12 Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty: **NIL**

13 Student -Teacher Ratio (programme wise)

PG (M.E-CAD & M.E-IC)

Sl.No	Academic Year	Sanctioned Intake(PG)	Faculty strength	Ratio
1	2009-2010	36	3	1:12
2	2010-2011	36	3	1:12
3	2011-2012	36	3	1:12
4	2012-2013	72	6	1:12

UG

Sl.No	Academic Year	Sanctioned Intake(UG)	Faculty strength	Ratio
1	2009-2010	360	25	1:14.4
2	2010-2011	360	23	1:15.7
3	2011-2012	360	23	1:15.7
4	2012-2013	390	22	1:17.72

14 Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Not applicable**

15 Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.: **Not**

applicable

- 16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

I.NATIONAL FUNDING AGENCIES AND GRANTS RECEIVED:

1. Performance, Combustion and emission analysis of single and multi cylinder CI engines fueled with diesel and bio-diesels.
AICTE FUNDED (RPS SCHEME) : **RS 12 LAKHS**
DURATION PERIOD : **JUNE 2013-MAY 2016.**
CHIEF CO-ORDINATOR : **DR.A.VENKATESAN**
CO-PRINCIPAL : **DR.J.VENKATESAN**
2. Investigation on vibration characteristics of nano silica micro rubber reinforced carbon fiber reinforced composite structural beams.
AICTE FUND (RPS SCHEME) : **RS 11.77 LAKHS**
DURATION PERIOD - : **MARCH 2012-MARCH 2013**

PRINCIPAL INVESTIGATOR : **DR.R.RAMESH**
CO-PRINCIPAL INVESTIGATOR : **MR.C.SENTHAMARAI KANNAN**
3. Experimental investigation and effect of fuels spray characterized of direct injection diesel engine fueled with bio-diesel.
AICTE FUND (RPS SCHEME) : **RS 16 LAKHS**
DURATION PERIOD : **MARCH 2012-MARCH 2013**
PRINCIPAL INVESTIGATOR : **DR.K.PITCHANDI**
CO-PRINCIPAL INVESTIGATOR : **MR.P.RAGHU**
4. Modelling and Machining of Fiber Reinforced Composites
AICTE FUND (RPS SCHEME) : **RS 12.5 LAKHS**
DURATION PERIOD : **MARCH 2012-MARCH 2013**
PRINCIPAL INVESTIGATOR : **DR.T.RAJA**
CO-PRINCIPAL INVESTIGATOR : **MR.V.SRIDHARAN**

II.INTERNATIONAL FUNDING AGENCIES AND GRANT RECEIVED: NIL

- 17 Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received :

Funded Projects for the academic years 2009-10 to 2012-13

Name & Designation of the Principal Investigator	Title of the project	Sponsoring Agency	Date of commencement	Date of completion	Total outlay of Project (Rs. In Lakhs)
Mr.N.Muthukrishnan, Asst. Professor	Experimental Investigation and ANN Modeling of Al-SiC(10p) Metal Matrix Composites Machining using PCD Insert	AICTE RPS	May 2009	May 2012	3.5
Dr. A.Venkatesan Dr.J.Venkatesan	Performance, Combustion and Emission analysis of Single and Multi cylinder CI engines fuelled with diesel and bio-diesels	AICTE MODROBS	May 2011	Ongoing	12
Dr.R.Ramesh, C.Senthamarai Kannan	Investigation on Vibration Characteristics of Nano Silica/Micro Rubber reinforced Carbon fiber reinforced composite Structural beams	AICTE RPS	May 2013	Approved dated March '13 Fund Granted For first year (May'13 to June'14)	41.94
Dr. K.Pitchandi Mr. P.Raghu	Experimental investigation on effect of fuel spray characteristics of direct injection diesel engine fuelled with biodiesel				
Dr. T.Raja Mr. V.Sridharan	Machining & Modeling of Polymer composites				
Dr.N.Muthukrishnan Mr. V.Gurusamy	MIG Welding of Mg Alloys				

18 Research Centre /facility recognized by the University

Department of Mechanical Engineering has been recognized as

CENTRE FOR RESEARCH by Anna University, Chennai with effect from July
2007

List of Ph.D. Students registered in the Research Centre

Sl.NO.	Supervisor Name	Name of the Research Scholar	Research topic	Job of the Research Scholar with Address
1	Dr.A.Venkatesan	Mr. S.Ilayavel	Various Techniques to improve the Tool life	Asso. Prof./MECH SVCE
		Mr. M.Mohandass	Effect of the Casting Solidification Rate on the Strength of Castings	Asso. Prof./MECH SVCE
2	Dr. R.Ramesh	Mr. R.Murugan	Investigation on Vibration and Fatigue Interaction	Prof./MECH SVCE
		Mr. M.Premananth	Friction and wear Characteristics of Hard Ceramic Composite Coating	Asst. Prof./MECH SVCE
		Mr. C.Senthamarai Kannan	Vibration Characteristics of Fiber and Nano Reinforced Plastic Composites	Asst. Prof./MECH SVCE
		Mr. R.Gokuldass	Impact behavior of FRP Composites subjected to various shape of projectiles	Asst. Prof./MECH SVCE Asst. Prof./MECH Vadamavandal (Near Kanchipuram) Namandi (PO)-604 410 ArulmiguMeenakshi Amman College of Engineering
		Mr. T.S.Frank Gladson	Friction and wear Characteristics of Polymeric Material	Asst. Prof. /MECH Velammal Engineering College, Velammal Nagar, Ambattur, Redhils Road, Chennai 600066.
3	Dr. K. Pitchandi	Mr. T.Motilal	Characterization of Cyclone heat exchanger	Asst. Prof./MECH T J College of

				Technology, Chennai
		Mr. V.Gurusamy	MIG Welding of Mg Alloys	Asst. Prof./Marine SVCE
		Mr. S.Arumugam	Combustion analysis in IC Engines with Piston Modification	Asst. Prof./MECH SVCE
4	Dr. N.Nallusamy	Mr.P.Raghu	Experimental study on Spray Characteristics of Diesel and Bio-Diesel	Asst. Prof./MECH SVCE
		Mr. Gajendiran	Phase Change Material	Asst. Prof./Marine SVCE
5	Dr. N.Muthukrishnan	Mr.V.sridharan	Machining of Polymer Composite	Asst. Prof./MECH SVCE
		Mr.S.Muniraj	Machining of Micro Alloy	Asst. Prof./AUTO SVCE
6	Dr.J.Venkatesan	Mr.A. Balasubramanian	PCM based thermal energy storage for Vapour Absorption Refrigeration System	Asst. Prof./Mech SVCE
		Mr.B.Nagendiran	Effect of Engine parameters on the Characteristics of SI engine fueled with Ethanol	Asst. Prof./Mech Asan Memorial College of Engineering & Tech

19 Publications:

- a) Publication per faculty
- Number of papers published in peer reviewed journals (national / international) by faculty and students
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Monographs
- Chapter in Books
- Books Edited

- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- SNIP
- SJR
- Impact factor
- h-index

List of Papers published by the faculty members in National / International Conferences.

Academic Year 2009-10

National

S. No	Name of Faculty	Title of the paper	Conference details
1	Prof. K.Padmanabhan	“Design and electrohygrothermomechanical Reliability analyses of leadless quad IC packages”	The ANSYS India Conference 09 held at Bangalore, Nov 13 th 09.
2	Dr.R.Ramesh	“Contact Analysis of Flexible Jaw Coupling Using Finite Element Method”	The Conference on Tribology of automotive system held at IIT Delhi, 11-12 Dec 2009.
3	Dr. R.Ramesh Mr. M.Premananth	“Investigation on the “Effect of Roller Follower Material on the Contact Behaviour of Stainless Steel Cam for Automotive Applications Using FEM”	The national conference on “Tribology of Automotive Systems”, held at IIT-Delhi during 11-12 December, 2009.
4	Dr. R. Ramesh, Mr. V.Sridharan,	“Analysis Of Sliding Behaviour Of Structural Steel En 24 Against Bearing Steel En 31 Under Fretting Load Conditions”	The national conference on “Tribology of Automotive Systems”, held at IIT-Delhi during 11-12 December, 2009.

International

Sl. No	Name of Faculty	Title of the paper	Conference details
1	Dr. R.Ramesh,	“Investigation on the “Effect of aspect ratio on the structural behaviour of various shapes of flexible jaw coupling using finite element analysis”	“International conference on Advances in Mechanical Engineering”, held at SVNIT-Surat, during 4-6 January, 2010.
2	Dr.R.Ramesh and	“Analysis of Contact behaviour of	theConference on Design and

	M.Premananth	Stainless steel Cam over Brass Roller Follower for automotive Applications Using FEM”	Manufacturing Issues in Automotive and Allied Industries IPRoMM-2009 held at IIT Madras,10-11 July 2009.
3	Dr.R.Ramesh and C.Senthamarai Kannan	“Analysis of the damping performance of thin walled composite structures using FEM”	International Conference on Advance Materials and Building Sciences” held at VIT Vellore, 14 – 16 Dec. 2009
4	Dr. R.Ramesh, Prof/ME, Mr. M.Premananth,	“Performance Improvement in the Slotter Machine by Flywheel with Variable Speed and Radius of Gyration”	The international conference on “Advances in Mechanical and Building Sciences in the 3rd Millennium (ICAMB – 2009)” held at VIT, Vellore during December 14-16, 2009.
5	Mr.T.Raja	“Fabrication and Characterization of Metal matrix Composite using stir Casting arrangement”	International Conference on Advance Materials and Building Sciences” held at VIT Vellore, 14 – 16 Dec. 2009.
6	Mr. C.Senthamarai Kannan Dr. R.Ramesh,	“Investigation on the “Investigation on the passive damping performance of various shapes of thin walled carbon/Epoxy composite beams with different aspect ratio using finite element method”	“International conference on Advances in Mechanical Engineering”, held at SVNIT-Surat, during 4-6 January, 2010.
7	Mr.S.Ilaiyavel,	“Performance of Manganese Phosphate coated cutting tools”	International Conference on Advance Materials and Building Sciences” held at VIT Vellore, 14 – 16 Dec. 2009
8	Mr. A.Arockia Selvakumar SL/ME	“Analytical Study on Geometrical Parameters of Tripod Parallel manipulator”	International Conference on Advances in Mechanical and Building Sciences in the 3 rd Millennium /VIT, December 14-16.
9	Mr. A.Arockia Selvakumar SL/ME	“Modeling and Kinematic analysis of Tripod Parallel Manipulator”	International Conference on Advances in Mechanical and Building Sciences in the 3 rd Millennium / VIT, December 14-16.

Academic Year 2010-11

National:

S. No	Name of Faculty	Title of the paper	Conference details
1	Mr. P.Raghu	“Moringaoleifera (a multipurpose tree) a source of alternative fuel”	National conference on Research Perspectives in Mechanical Engineering, Sri Venkateswara College of Engineering, Tamilnadu, India, April 1 -2, 2011
2	Mr. P.Raghu	“Performance and emission characteristics of diesel engine fuelled with methyl esters of Jatropha oil”	National Conference on Modern Trends in Automobile Engineering, 13-14, March 2008, SVCE, Chennai.
3	Dr. R.Ramesh, Mr. M.Premananth.	“Analysis of Sliding Behavior of Non-Conformal Contacting Surfaces Subjected to Shear Traction”	<i>National Conference on “Advances in Mechanical Engineering” - AIM ENGG 2011</i> , Accepted for publication going to be held at Manipal Institute of Technology(MIT), Manipal , During 03 – 05th Jan, 2011
4	Mr. S.Saravanan, J.Venkatesan and G.Nagarajan	“Effect of EGR on Emission Characteristics of Crude Rice Bran Oil Blend as a CI Engine Fuel at Higher Injection Pressure”	National Conference on Advances in Automotive Technology, REC, Chennai (July 2010)
5	R.Murugan, Dr. K.Padmanabhan, Dr. R.Ramesh, B.Perumal	“ Effect of Damping behavior on Fatigue Characteristics of FRP Laminates”	National Conference on Advances in Mechanical Engg 2011 at MIT, Manipal during 3-5 January 2011
6	Mr. S.Gopinath.	” Investigation of supply chain management risk in the large Indian bicycle manufacturing industry: A case study”	presented in ORSI 2010-ORURD held at Thiagarajar College of Engineering, Madurai on December 15-17, 2010
7	Mr. M.Premananth	“Design and analysis of radome”	The national conference RTME-2011 held on 26 th March 2011 at GKM College of Engg. & Technology, Chennai.
8	Mr. S.Ponnuvel	“Study of drilling Zylon-Glass short fibre added Epoxy/Glass fabric hybrid polymer composite”	National conference on Recent trends in Manufacturing Technology (RTMT-2011), held at College of Engineering, Guindy campus, Anna

			university, Chennai during 11 - 12 March 2011.
9	Mr. R.Ramanujam	“Optimization of Turning Parameters of Al-15%SiC _p Metal Matrix Composites using Taguchi Method”	National Conference on Recent Trends in Mechanical Engineering, held at <i>IFET College of Engineering, Villupuram</i> , on 24 th September 2010.
10	Mr. R.Ramanujam	“Experimental Investigation of Turning Al-10%SiC _p Metal Matrix Composites Using Taguchi Based Design of Experiments”	National Conference on Recent Trends in Mechanical Technology, held at <i>College of Engineering, Guindy, Anna University Chennai</i> , on 12 th March 2011.

International:

S. No	Name of Faculty	Title of the paper	Conference details
1	Dr. K.Pitchandi	<u>Design and Analysis of Concentric tube, Heat Exchanger using Entropy Generation Minimization</u>	Proceedings of International Conference on Thermal Energy and Environment (INCOTEE 2011), Kalasalingam University, Tamilnadu, March 24 – 26, 2011.
2	<u>Mr. C.Senthamarai Kannan, Dr. R.Ramesh.</u>	“Investigation on the Damping performance of various shapes of Thin walled Carbon/Epoxy Composite Beams”,	International Symposium for Research Scholars (ISRS-2010) on Metallurgy, Materials Science and Engineering, Accepted for publication and going to be held at Indian Institute of Technology (IITM) – Chennai During Dec 20 – 22, 2010
3	Mr. R.Murugan, K.Padmanabhan, Dr. R.Ramesh & M.Rajesh	“Hybrid effect on damping behavior of epoxy based woven fabric composites beams”	International conference on Advancements in Polymeric Materials held at CIPET, Chennai During March 25-27, 2011
4	<u>S.Balaji, C.Senthamarai Kannan, Dr. R.Ramesh.</u>	“Dynamic analysis of Woven Fabric carbon/Epoxy composite Beams”	International conference on Advancements in Polymeric Materials held at CIPET, Chennai During, March 25-27, 2011.
5	S.Madhavan, Dr. R.Ramesh, S.Shankar	Investigation on the Contact Behavior of Rolling Bearing Assembly under Various Tolerance Level”	5th International Conference on Advances in Mechanical Engineering. (ICAME-2011). Accepted for publication and going to be held at NIT Surat, 06 – 08 June 2011.
7	Mr. R.Murugan, Dr. R.Ramesh	“Effect of Damping behavior on Fatigue characteristics of modified	<i>Advances in Mechanical Engineering - AIM ENGG</i>

	B.Perumal	FRP Laminates”	2011, held at Manipal Institute of Technology(MIT), Manipal , During 03 – 05th Jan, 2011
8	VarunDevaraj, Dr. K.Padmanabhan, Mr. R.Murugan,	“A comparative study of mechanical characterization of carbon fabric - epoxy and carbon fabric - polypropylene matrix composites	the International National Conference on Recent Advances in Composite Materials (ICRACM) 2010 during 13 th December to 15 th December at University of Limoges, France
9	Mr. R.Murugan, Dr. K.Padmanabhan, Dr. R.Ramesh, M.Rajesh	“ Hybrid effect on damping behavior of epoxy based woven fabric composite beams”	The international conference on Advancements in Polymeric materials during March 25-27, 2011 at CIPET, Chennai
10	C.Senthamarai Kannan, R.Ramesh,	“Investigation on the damping performance of Various shapes of Thin walled Carbon/Epoxy Composite Beams”	December 20-22, ISRS -2010, IIT-Madras.
11	C.Senthamarai Kannan, Dr. R.Ramesh, S.Balaji,	Dynamic Analysis of woven Fabric Carbon/Epoxy Composite Beams	APM 2011, March 25-27,2011, CIPET,Chennai.
12	R.SatthishPandian, Mr. C.Senthamarai Kannan	Design Optimisation of Engine mounting System in Heavy Vehicles, REPMEC 2011	April 01-02, 2011, Sri Venkateswara College of Engineering.
13	R.Ramanujam	“Investigation of Thrust and Torque Responsible for Delamination During the Drilling of GFRP Plates”	International Conference on Composites for 21 st Century, Current and Future Trends, PP.639-644, held at IISc Bangalore on 4-7 January 2011.
14	Mr. A.Arockia Selvakumar	“Simulation and synthesis of Triglide parallel manipulator	FIME 2010, International Conference on Frontiers in mechanical engineering held in NITK, Surathkali, May 20-22, 2010.
15	Mr. S.Ponnuvel	Study of Drilling Zylon short fibre added epoxy based Glass hybrid polymer composite	International conference on Recent Trends in Manufacturing Technology, March 11-12, 2011Anna university, Chennai
16	Mr. P. Raghu	MorgeniaOlerfia A source of alternative fuel	REPMEC 2011, April1-2,2011, SVCE, Chennai
17	Mr. S.Gopinath	Investigation of Supply Chain Risk in the large Indian Bicycle manufacturing industry – A case study	International Conference on Operational Research, 15 th to 17 th Dec 2010, Thiyagaraja College of Engineering, Madurai

Academic Year 2011-12

Sl. No	Name of Faculty	Title of the paper	Conference details
1	Mr. R.Ramanujam.	Experimental Investigation of Turning Al-10%SiCp Metal Matrix Composite using Taguchi based Design of Experiments	International Conference on Advanced Materials and Processing (ICAMP – 2011). Dec 19-20, 2011
2	Mr. P.Raghu	Experimental study on biodiesel and diesel spray characteristics in a constant volume chamber under high injection pressure	Recent Research in Mechanical Engineering, Adhiparasakthi Engineering College 21 st April 2012
3	Mr. S.Gopinath	Investigation of critical issues in micro and small scale industries in INDIA.	Presented in the International conference, Swiss. March 2012 Published in Advanced Material Research
4	Mr. S.Gopinath	An Empirical Study of Micro and Small Enterprises and Analysis of Its Issues:Case Study approach.	IIT Kharagpur,INDIA, Feb 2012
5	Mr. S.Gopinath	Investigation of supply chain risk in the Pharmaceutical Industry: case Study approach.	The world congress, London, U.K December 2011.
6	Mr. S.Gopinath	Impact of product variants on supply chain management.	International conference at ITALY. Jan 2012
7	Mr. C.Senthamarai Kannan, Dr.R.Ramesh, B.UmaMaheswaran	Investigation on structural Beams made up of Hybrid Carbon Composites	National Conference on Polymers, Composites in Medicine, Engineering Defence, Velammal Engineering College 24 Feb 2012
8	Mr. C.Senthamarai Kannan, Nagarjuna, Manishankar,R.Ramesh,	Experimental Investigation on the Performance of Passive Damping in Rectilinear and Curved Glass fiber/Epoxy Composite Beams Subjected Under Different Boundary Conditions	ICCOEE 2012, University of Pertronas 12-14 June 2012
9	Mr. M.Premananth, Sriramraj, Sriram and Solayappan	Design and development of multi nut remover for automobile applications	International conference organized by VIT university, Vellore
10	M.Premananth, S.Selvaraj and Dr. R.Ramesh	Sliding behavior of coated surfaces	National conference organized by VELS University
11	Mr. R.Murugan	Design and Development of Fatigue Testing Facility	National conference on Recent Trends in Mechanical Engineering (NCRTIME'12) 22nd March 2012
12	Mr. R.Murugan	Vibration Characteristics of Modified FRP Laminates	National conference on Research Trends in Mechanical Engineering (NCRTME2012)

			11 th April 2012
13	Dr. R.Ramesh, M.Shiva Kumar	Static contact analysis of semi elliptic leaf spring using 3D FEM	Conference on Mechanical Engineering and Technology (COMET 2012) at IT-BHU, Varanasi 2-4 March 2012
14	Dr. R.Ramesh, R.Sathish Kumar	Investigation And Analysis of Clutch Disc System Under Dynamic Performance	International Conference on Recent Advances in Mechanical Engineering (INCRAME 2012), held at Dr. M.G.R University, Chennai, 19-20 April 2012.
15	Mr. P.Raghu	Spray structure of alternative fuels - a comparative analysis of biodiesel and diesel	2012 IACSIT Coimbatore conference

Academic Year 2012-13

International

Sl. No.	Name of Faculty	Title of the paper	Name of the Conference/symposium/ workshop	Date
1	Dr. R.Ramesh	Structural and contact analysis of automotive leaf spring subjected to dynamic loads using three dimensional Finite element approach	3 rd Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2012) held at Indian Institute of Technology, New Delhi	5 th -8 th December 2012
2	Dr. R.Ramesh	Vibration Characteristics of Thin Walled Hybrid Carbon Composite Beams under Fixed Free Boundary Condition	3 rd Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2012) held at Indian Institute of Technology, New Delhi	5 th -8 th December 2012
3	Dr. R.Ramesh	Vibration Characteristics of Woven Fabric Glass/Carbon Hybrid Composite Beams using Finite Element Method	3 rd International Conference on Recent Advances in Material Processing Technology (RAMPT'13) held at National Engineering College, Kovilpatti	Jan 07-09, 2013
4	Dr. R.Ramesh	Experimental Investigation on Modal analysis of carbon fiber reinforced composite beams with various cross sectional shapes	3 rd Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2012) held at Indian Institute of Technology, New Delhi	5 th -8 th December 2012
5	Dr. R.Ramesh	Tribological Investigation of Nano Composite Coated Titanium Alloy Surfaces Under Unidirectional Sliding	International Conference on Manufacturing Science and Technology (ICMST-2012), Delhi	August 18 – 19, 2012
6	Dr. K.Pitchandi	CFD investigation for holdup in gas-solid cyclone(2012)	International conference on Recent advances in Mechanical engineering, INCRAME 2012 Conducted by Dr.MGR Educational and research institute	April 19-20 2012
7	Mr. R.Murugan	Vibration Characteristics of Thin Walled Hybrid Carbon Composite Beams under Fixed Free Boundary Condition	3 rd Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2012) held at Indian Institute of Technology, New Delhi	5 th -8 th December 2012

8	Mr. R.Murugan	Vibration Characteristics of Woven Fabric Glass/Carbon Hybrid Composite Beams using Finite Element Method	3 rd International Conference on Recent Advances in Material Processing Technology (RAMPT'13) held at National Engineering College, Kovilpatti	Jan 07-09, 2013
9	Mr. S.Gopinath	Empirical study of impact of supply chain risk and uncertainty of Tier –I suppliers on leading automobile company(MNC) in India	International conference on Mechanical, Electrical and Computer Engineering, Singapore	4 th August 2012
10	Mr. S.Gopinath	Investigation of supplier risk for leading Automobile Manufacturing Companies in India	International conference on Mechanical, Electrical and Computer Engineering, Singapore	4 th August 2012
11	Mr. C.Senthamarai Kannan	Experimental Investigation on Modal analysis of carbon fiber reinforced composite beams with various cross sectional shapes	3 rd Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2012) held at Indian Institute of Technology, New Delhi	5 th -8 th December 2012
12	Mr. M.Premananth	Tribological Investigation of Nano Composite Coated Titanium Alloy Surfaces Under Unidirectional Sliding	International Conference on Manufacturing Science and Technology (ICMST-2012), Delhi	August 18 – 19, 2012
13	Mr. A. Arockia Selvakumar	Simulation and Singularity analysis of 3-PRS Parallel Manipulator	International conference on Mechatronics and automation	Aug 2012
14	Mr. S.Ponnuvel	Investigation of the influence of multiwalled carbon nanotubes on delamination in drilling epoxy/glass fabric polymeric nanocomposite (2012)	International Conference on Engineering (Nuicone 2012), Nirma University, Gujarat	Dec 2012
15	Mr. S.Ramesh Babu	Investigation of formability on friction stir processed magnesium alloy	4 th International & 25 th AIMTDR Conference 2012	Dec 2012

National

Sl. No.	Name of Faculty	Title of the paper	Name of the Conference/ symposium/ workshop	Date
16	Mr. S.Ramesh Babu	Superplastic Forming of AZ31B magnesium alloy into a hemispherical die	ADNAM National Conferences on Advances in Naval Materials-2013 Organized by Materials panels of Naval Research Board	Feb 2013

Student Publications

Academic Year 2009-10

Sl. No.	Name of the Student	Title of the paper	Conference Details
1	L.Madhan Kumar.	Fatigue analysis of steering draglink	National Conference on Preferment in Mechanical Engineering PIME-2010 held on 20 th March 2010 at SreeSastha Institute of Engineering and Technology, Chennai.
2	A.Juliuspusic.	Damping behavior of advanced FRP laminates – Free vibration method	National Conference on Recent innovations in production Engineering RIPE2010, MIT campus – Anna University held on 2010 at Anna University Government Engineering College, Chennai.
3.	G.Saravanaram.	Reliability Analyses of a 56L TQLMP Microsystem Packaging	National Conference on Preferment in Mechanical Engineering PIME-2010 held on 20 th March 2010 at SreeSastha Institute of Engineering and Technology, Chennai.
4.	E.Selvamani.E	Reliability Analyses of a48L TQLMP Microsystems Packaging	National Conference on Preferment in Mechanical Engineering PIME-2010 held on 20 th March 2010 at SreeSastha Institute of Engineering and Technology, Chennai.
5.	Tamizhselvan	Three Dimensional Analysis of Spur Gear Drive	National Conference on Recent Trends in Manufacturing and Industrial Engineering held on 9-10 th April 2010 at Sathyabama University, Chennai.
6.	Kabilraj	Superplastic Behaviour of AZ31B alloy	National Conference on Preferment in Mechanical Engineering PIME-2010 held on 20 th March 2010 at SreeSastha Institute of Engineering and Technology, Chennai.

Academic Year 2010-11**Academic Year 2011-12**

Sl. No.	Name of the Student	Title of the paper	Conference Details
1	Anandkannan.P	Design and Different of Fatigue Testing Facility	National Conference On Recent Trends In Mechanical Engineering '12 held on 22 nd March 2012 at SAVEETHA UNIVERSITY Chennai.
2	Leenusprabu.A	Three Dimensional Static and Dynamic Analysis of Spur Gear	International Conference on Recent Advances in Mechanical Engineering INCRAME'12 held on 19 th & 20 th April 2012 at Dr. MGR University Chennai
3	Muhammedmuneer.S	Uniaxial Retching Studies on Type304 LN Stainless Steel	International Conference on Recent Advances in Mechanical Engineering INCRAME'12 held on 19 th & 20 th April 2012 at Dr. MGR University Chennai
4	Nandhirajan.P	Fatigue Crack Growth Study On 16 MnR Stainless Steel / Ti64/Si C Metal Matrix Composite	National Conference On Recent Trends In Mechanical Engineering '12 held on 22 nd March 2012 at SAVEETHA UNIVERSITY Chennai.
5	Sathishkumar.R	Investigation and Analysis Of Clutch disc system under dynamic performance	International Conference on Recent Advances in Mechanical Engineering INCRAME'12 held on 19 th & 20 th April 2012 at Dr. MGR University Chennai
6	Selvaraju.P	Analysis Of Sliding Behaviour Of Coated Surfaces Under Shear Traction	National conference on Research Trends in Mechanical Engineering NCRTME 2012 held on 11 th April 2012 at VELS University, Chennai.
7	Shiva kumar.M	Investigation And Analysis On The Performance Characteristics Of Automotive Leaf Spring Under Shock Load	Conference on Mechanical Engineering and Technology COMET 2012 held on 2-4 th March 2012 at Institute of Technology, BHU.
8	Sravankumar.J	Vibration characteristics of modified FRP Laminates	National conference on Research Trends in Mechanical Engineering NCRTME 2012 held on 11 th April 2012 at VELS University, Chennai.
9	Srikrishna.P	An Experimental Studies on the Mechanical Properties of Friction Stir Processed AZ31B Alloy	National Conference ERA 2012 Mechanical Engineering held on 23 rd March 2012 at Velammal Engineering College Chennai.
10	Suresh GS	Analysis and Optimization Of 3PRS Parallel Mechanism using ansys work bench	International Conference on Recent Advances in Mechanical Engineering INCRAME'12 held

			on 19 th & 20 th April 2012 at Dr. MGR University Chennai
11	Umamaheswaran.B	Experimental Investigation On Structural Beams Made Up Of Hybrid Carbon Fiber Composites Under Free And Forced Vibration	National conference on Polymers and Composites in Medicine, Engineering and Defence – PCMED-2012 held on 24 th February 2012 at Velammal Engineering College Chennai.
12	Vijayapandi.A	Kinematic Analysis of Tripod Parallel Manipulator Using Newton – Euler Approach.	International Conference on Recent Advances in Mechanical Engineering INCROME'12 held on 19 th & 20 th April 2012 at Dr. MGR University Chennai
13	Mr. AbhishekSwaminathan & Mr. Nikhil Prashanth	"Performance Evaluation of TTI 15 insert on machining Titanium Alloy (Ti 6Al-4V) with and without coolant"	in the International conference HI TEMP 2011, held at Millennium Hotel, Boston MA, USA, during 20-22 September.
14	Mr.AkshayMaheswari, Mr.AnuttamTeja, Mr. Ashwin Kumar	"machinability Studies of Al/SiC/B4C Metal matrix hybrid Composite using PCD 1600 Grade insert"	in the international Conference and Exposition on advanced Ceramics and Composites, held at Daytona Beach,Florida,USA during January 22-27,2012
15	Mr. R.Arjun, Mr. Dinesh Kumar and Mr. Abhishek	"Continuous Variable Transmission System for Farm Equipment and Pumps"	National collegiate Invocator Program NCIIA, Washington, USA.
16	K. Kaarmuhilan and S.Karthika	"Performance evaluation of PCD 1300 and 1500 grade inserts on A356 alloy with 20% reinforcement of SiC particles"	The International Conference MIMT 2011, IEEE, held at Singapore.
17	Dinesh Kumar	"Continuous variable transmission system for Farm equipment and pumps"	National collegiate Invocator Program NCIIA, Washington, USA.
18	Nelson Nishanth, T.R.AdhithyaSethupathy and KarthikNarasimhan	"Performance Evaluation of Manganese Phosphate HSS coated on turning MIA Magnesium alloy"	The International Conference MIMT 2011, IEEE, held at Singapore.
19	SathappanSreenivasan	"Experimentation Investigation of Turning Al-10% SiCp metal matrix through composites using Taguchi based design of experiments"	The National Conference on "Recent Trends in Manufacturing Technology", Anna University, Chennai.

Academic Year 2011-12

Sl. No	Name of Student	Name of the Conferences/ symposiums/ workshops	National/ International	Venue	Date
1.	Gautam Kannan, B.Mukund	Performance Analysis of Ejector Refrigeration System with alternate refrigerents	Conference on Sustainable Energy Technologies	Vancouver Canada	2-6 Sep 2012
2.	R.BharathViswanath MukilanS.Michale	Thermodynamic Analysis of a heat pipe Thermal jet Refrigeration syatem	International Conference on Civil,offshore and Environmental Engineering	Malaysia	12-14 June 2012
3.	A. Aakash Vishnu Harran	Investigation of supplier risk for leading Automotive Manufacturing Companies in India	International conference on Mechanical ,Electrical and computer Engineering	Singapore	4-8-2012
4.	S.Manishankar,BodduluriNagarjun	Experimental investigation on the performance of passive damping in rectilinear and curved glass fiber/epoxy composite beams subjected under different boundary conditions	International Conference on Civil,offshore and Environmental Engineering	Malaysia	12-14 June 2012

20 Areas of consultancy and income generated

Year	Amount Generated through Consultancy work (Rs.)
2009-10	64,850
2010-11	32,100
2011-12	3,66,650
2012-13	3,79,000
Total	8,42,600

21 Faculty as members in

b) National committees b) International Committees c) Editorial Boards...**Nil**

- 22 Student projects
- Percentage of students who have done in-house projects including inter departmental/programme
 - Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

Year	Class	Class strength	No. of students doing project in				No. of projects being done in			
			Industries		College		Industries		College	
			Number	%	Number	%	Number	%	Number	%
2009-2010	IV Year A & B	99	42	42.42	57	57.58	14	42.42	19	57.58
2010-2011	IV Year A & B	98	60	61.22	38	38.78	20	62.50	12	37.50
2011-2012	IV Year A & B	106	72	67.92	34	32.08	26	70.27	11	29.73
2012-2013	IV Year A & B	92	46	50.00	46	50.00	17	51.52	16	48.48

- 23 Awards/ Recognitions received by faculty and students

Received best teacher award by Mr.S.Ilaiyavel during the year 2012-13

- 24 List of eminent academicians and scientists/ visitors to the department

2009-10 - Dr. G. Nagarajan, Professor in I.C. Engines Division, Anna University, Chennai

2010-11 - Dr. C.Balaji, Professor, Indian Institute of Technology Madras, Chennai – 36.

2011-12 - Mr. S. Karthikeyan, Manager, Product division, Ashok Leyland, Chennai.

2012-13 - Prof. RAM MOHAN, Professor, Department of Nanoengineering, Joint School of Nanoscience and Nanoengineering, North Carolina A&T State University

25 Seminars/ Conferences/Workshops organized & the source of funding

- a)National
b)International

Title	Contributing Institute/Industry	Organized by	Duration
International Conference on 'Modern Trends in Material Technology' during 19 th and 20 th January 2009	SVCE	Dr. K.Padmanabhan	2 days
A National level Workshop on "State of art in the development of Bio-fuels" during 12 th & 13 th February 2009	SVCE	Mr. P.Raghu	2 days
Two day workshop on "Recent advances in design engineering" during 04 th & 05 th September 2009	SVCE	Dr. R.Ramesh	2 days
Two day course on "Emerging Trends in Supply Chain management" during 18 th & 19 th September 2009	SVCE	Dr. T.N.Srikantha Dath	2 days
A seminar on "Noise, Vibrations and Harshness" during 05 th to 12 th June 2010	SVCE/ Ashok Leyland	Mr. R.Murugan	2 weeks
One day workshop on "Nano Materials" on August 21, 2010	SVCE	Dr. T.Raja	1 day
A course in "Research methodology" 30 th March 2011	SVCE	Mr. S.Gopinath	1 day
National Conference on "Research Perspectives in Mechanical Engineering" during 1st and 2nd April 2011	SVCE	Dr. N.Nallusamy	2 days
Automotive Exhaust systems & NVH, 23 rd to 30 th July 2011	SVCE/ Ashok Leyland	Mr. R.Murugan, C.Senthamarai Kannan	1 week
SAP as ERP tool on 16/09/2011	SVCE	Mr. S.Gopinath	1 day
One day workshop was conducted on Quality- case studies of different industries on 24th Jan 2012	SVCE	Mr. S.Gopinath	1 day
Latest Advancement in Automotive Testing on 12-03-12	SVCE/ ATALON	Mr. R.Murugan Mr. GovardhanaGiri	1 day
One day workshop was conducted on "Trends in Robotics" by Japanese firm on 19th March 2012	SVCE	Mr. S.Gopinath	1 day
Two day workshop on Mechanical Behaviour of Composite Materials	SVCE	Dr. R.Ramesh	1 day

from 30-03-12 to 31-03-12			
Workshop on “Simulation, Measurements & Condition Monitoring” on 7 th September	SVCE	Mr. R.Murugan	1 day
Workshop on “Recent trends in Engineering Tribology and Surface Characterization” on 29 th September	SVCE	Dr. R.Ramesh	1 day
IGNITION - Student Technical Symposium	SVCE Every year	SME Coordinator	1 day
A course in Pro-E for pre-final year students	SVCE	Mr. K.S.Badrinathan Mr. C.Senthamarai Kannan	60 hours

26 Student profile programme/course wise: **Not applicable**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M=Male F=Female

27 Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.E Mechanical	98	2	--
M.E (CAD)	100	--	--
M.E (I C engine)	100	-	-

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ?

GATE:

2009-2

2010-2

2011-3

2012-4

2013-Awaiting

29 Student progression

Student progression	Against % enrolled
UG to PG	2009-10- 2010-11- 2011-12- 2012-13 Awating
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurship/Self-employment	

30 Details of Infrastructural facilities

e) Library

Library holdings	Year -1	Year - 2	Year – 3	Year - 4
	2012-2013	2011-2012	2010-2011	2009-2010
	Number	Number	Number	Number
Titles	491	511	218	92
Volumes	1073	2316	506	137
Total Cost	5,56,873	7,27,091	24,319	85,099

Facilities available in Central library are:

40 computers are provided with internet facilities and having following ICT facilities

Online Public Access Catalogue (OPAC)

Reprographic Service

Book Reservation

Internet Access

Reference Service

Conference Alert Service (Staff, Student)

Competitive Exam Guides

Multimedia Service

Inter Library Loan Service

Online Book Renewal

Digital Library- E-Books, E-Journals, E-Lectures,

f) Internet facilities for Staff & Students

Mechanical department is provided with 110 computers connected with internet facility across various lab.

All staff rooms are equipped with internet facilities.

g) Class rooms with ICT facility

Two class rooms of mechanical department are provided with Smart Board. All class rooms are equipped with OHP's and Black Boards.

h) Laboratories

iii. Laboratory Space details are as follows:

Sl .No	Name of the Course	Name of the Laboratory/ Workshop	Total Area of Laboratory/Workshop (carpet area) (Sq.Meters)	Major Experiments
1	B.E. Mechanical Engineering	Basic Workshop	732	Fitting Carpentry Plumbing Foundry Welding Sheet metal working
2		Machine Shop	530	Lathe Practice Special Machines Practice
3		Fluid Mechanics laboratory	429	Flow measurements Pump Characteristics Turbine Characteristics
4		Thermal Engineering Laboratory	429	Performance test on Internal Combustion Engines Heat transfer coefficients Heat exchanger Refrigeration and Air conditioning Reciprocating Compressors
5		Strength of Materials Laboratory	136	Hardness Testing Tensile and compressive testing Torsion testing Spring Testing Impact testing

6		Dynamics Laboratory	136	Governors characteristics Gyroscopic principles Turn table Epicyclic gear train Longitudinal, Transverse and Torsional vibrations Balancing of masses Bifilar suspension Whirling of shafts
7		Metrology & Instrumentation Laboratory	136	Linear measurements Angular measurements Flatness measurements Optical measurements Tool makers microscope Gear tester Mechanical Comparators Pneumatic comparators Pressure measurement Force measurement Surface roughness measurement Temperature measurement Speed measurement
8		CAD/CAM Lab	136	2D modeling 3D modeling Analysis – static and dynamic Manual part programming NC code generation CNC machining
9	B.E. Mechanical Engineering	Mechatronics laboratory	136	Hydraulics and Pneumatics circuit design Speed control – stepper and servo motor Flow, Temperature, pressure control in multiprocess station Force control Process control using Lab view software Pneumatic control circuit design
10	M.E. CAD	P.G. CAD Lab	136	2D modeling 3D modeling Analysis – static and dynamic
11		Vibration Laboratory	65	Universal vibration apparatus Vibration shaker and analyser

iv. Equipments available in Mechanical Department laboratories.

BASIC WORKSHOP

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Drilling Machine Capacity ½”	1	1	0.05248	1986
3.1.2	Drilling Machine Capacity 20mm	1	1	0.30739	2002
3.1.3	Grinding Machine	1	1	0.05595	2002
3.1.4	Angle Plate	2	2	0.024	1986
3.1.5	Surface Plate 24”x24”	1	1	0.016	1986
3.1.6	Power Hacksaw Machine	1	1	0.39156	2001
3.1.7	Shearing Machine	1	1	0.14924	2002
3.1.8	Hand Drilling Machine	1	1	0.05837	2003
3.1.9	Circular Saw	1	1	0.08986	1987
3.1.10	Wood work Lathe	1	1	0.1072	1987
3.1.11	Anvil	9	9	0.04545	1985
3.1.12	Anvil Stand	2	2	0.0238	1988
3.1.13	Blower	5	5	0.36	1986
3.1.14	Swage block	1	1	0.0115	1985
3.1.15	Welding Transformer (oil cold)	2	2	0.09562	1987
3.1.16	Gas Welding set	1	1	0.03734	1987
3.1.17	Shearing Machine	1	1	0.018	1987
3.1.18	Sheet Rolling Machine	1	1	0.05575	1990
3.1.19	Arc Welding Transformer	1	1	0.12	1994
3.1.20	Arc Welding Transformer (air cold)	1	1	0.08	1994
3.1.21	Welding Transformer (TPA-403)	2	2	0.55356	2003
3.1.22	Oil fired furnace (100kg capacity)	1	1	0.1808	1989
3.1.23	Sieve shaker model VUM & accessories	1set	1set	0.227	1992
3.1.24	Sand reamer model VR and accessories	1 set	1 set	0.31421	1992
3.1.25	Sand Weighing Scale	1	1	0.016	1992
3.1.26	Permeability Meter and Mould Tester	1+1	1+1	0.05697	1989
3.1.27	Moulding Machine	1	1	0.0938	1989
3.1.28	Angle Grinder	1	1	0.0265	2008
3.1.29	Wood Cutting Circular Saw	1	1	0.059	2008

3.1.30	Hydraulic Press Compression Moulding Machine (25 T)	1	1	2.83446	2008
3.1.31	GSB Impact Drilling Machine	1	1	0.044	2009
3.1.32	GWS Wood Planning Machine	1	1	0.066	2009
3.1.33	A/G-7, Grinding Machine	1	1	0.081	2009
3.1.34	GCO 2000 Cut off Machine	1	1	0.12428	2010
3.1.35	Pedestal Fan	2	2	0.12825	2010
3.1.36	Rotary Hammer(GB4 2-18 RE)	1	2	0.1368	2011
3.1.37	Demolition Hammer(11E)	1	2	0.7	2011
3.1.38	Planner Machine (10-82)	1	1	0.0699	2011
3.1.39	Jigsaw machine (GST 65E)	2	1	0.144	2011
3.1.40	Welding Transformer(ESAB)	1	1	0.4235	2011
3.1.41	Vernier Height Gauge	1	1	0.18	2011
3.1.42	Grinding Machine(AG4)	1	1	0.023	2011
3.1.43	Air Blower (BOSCH)	1	1	0.058	2011
3.1.44	TIG-250 Welding Machine	1	1	0.24675	2012
	Total			8.88729	

MACHINE SHOP

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Planning Machine	1	1	0.71264	1986
3.1.2	Surface Grinder	1	1	0.1632	1987
3.1.3	Magnetic Chuck	1	1	0.03046	1988
3.1.4	Grinding Surface Plate	1	1	0.0349	1989
3.1.5	Slotting Machine	1	1	0.1632	1987
3.1.6	Shaping Machine 24"	1	1	0.28179	1986
3.1.7	Bench Grinder –Double end	1	1	0.08466	1986
3.1.8	Bench Grinder	1	1	0.0261	1987
3.1.9	Radial Drilling Machine	1	1	0.61004	1988
3.1.10	Tool and Cutter Grinder	1	1	0.39216	1989
3.1.11	Gear Hopper	1	1	1.65210	1989
3.1.12	Milling Machine	1	1	1.44768	1990
3.1.13	Milling Machine	1	1	0.3049	1987
3.1.14	Copying Attachment lathe	1	1	0.91558	1989
3.1.15	Lathe Tool Dynamometer	1	1	0.12388	1988
3.1.16	Capstan Lathe	1	1	0.5	1990
3.1.17	Bar feeding attachment	1	1	0.13875	1996
3.1.18	Hacksaw Machine	1	1	0.04787	1986

3.1.19	Universal Vice	1	1	0.05883	2001
3.1.20	Machine Vice	1	1	0.0925	2001
3.1.21	Heavy duty Lathe with accessories	3	3	1.06766	1986
3.1.22	Dilip Lathe	7	7	2.989	1987
3.1.23	Dilip Lathe	3	3	0.69686	1988
3.1.24	Venus Lathe	3	3	1.92706	1988
3.1.25	Milling & Drilling tool Dynamometer	2	2	0.42254	1996
3.1.26	Padmini Lathe	1	1	1.03096	1999
3.1.27	RIAT Cylindrical Grinding Machine	1	1	1.81262	1999
3.1.28	Panther Lathe	1	1	1.54404	1999
3.1.29	Air Compressor	1	1	0.112	2000
3.1.30	Quick change Tool post	1	1	0.75	2002
3.1.31	SAGAR Shaping Machine	1	1	2.00878	2008
3.1.32	Lathe Tool Dynamometer	1	1	0.25367	2011
	Total			18.24518	

METROLOGY

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Gear Tester	1 set	1 set	0.41975	1990
3.1.2	Electronic Comparator	1	1	0.12654	1988
3.1.3	Profile Projector	1	1	0.50209	1987
3.1.4	LVDT	1	1	0.082	1992
3.1.5	Temperature Indicator	1 set	1 set	0.079	1992
3.1.6	Strain Indicator	1 set	1 set	0.098	1992
3.1.7	Speed Measurement System	1 set	1 set	0.0785	1992
3.1.8	Strain Gauge Digital Indicator	1	1	0.0895	1992
3.1.9	Torque Transducer	1	1	0.098	1992
3.1.10	Digital Pressure Indicator	1	1	0.098	1992
3.1.11	Vacuum Measurement	1	1	0.21	1992
3.1.12	Vibration Acceleration Measurement	1	1	0.108	1992
3.1.13	Vibration Indicator	1	1	0.35463	1993
3.1.14	Dial test Indicator	4	4	0.13992	1994
3.1.15	Pocket Microscope	2	2	0.0742	1994
3.1.16	Battery Charger	1	1	0.03	1997
3.1.17	Surface Roughness Tester	1	1	2.1216	1999
3.1.18	Autocollimator	1	1	1.0908	2003
3.1.19	Tool maker Microscope	1	1	1.70982	2004

3.1.20	Float Carriage Diameter Measuring	1	1	1.11644	2005
3.1.21	Temperature Measurement Kit	1	1	1.21069	2005
3.1.22	Gear Tooth Vernier	1	1	0.085	2007
3.1.23	Vernier Height Gauge	1	1	0.145	2007
3.1.24	Digital Vernier	1	1	0.048	2007
3.1.25	CI Surface plate	1	1	0.048	2007
3.1.26	Sphere	1	1	0.125	2007
3.1.27	Parallel Bar	1	1	0.018	2007
3.1.28	Surface Roughness Tester	1	1	2.37071	2009
	Total			12.67719	

INSTRUMENTATION LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Strain Gauge Displacement Meter	2	2	0.21859	1995
3.1.2	Digital Displacement Meter	1	1	0.06267	1995
3.1.3	LVDT	4	4	0.0808	1995
3.1.4	Stroboscope model 100	2	2	0.15954	1995
3.1.5	Accelerometer	2	2	0.5616	1995
3.1.6	Vibration Indicator	2	2	0.19656	1995
3.1.7	Active Filter	2	2	0.11128	1995
3.1.8	Temperature Indicator	1	1	0.13986	1995
3.1.9	Power supply 15V DC	1	1	0.99971	1995
3.1.10	Power supply 3V DC 25A	1	1	0.1168	1995
3.1.11	Wheat stone bridge	1	1	0.121	1996
3.1.12	Industrial Kelvin double bridge	1	1	0.159	1996
3.1.13	Senior Kelvin double bridge	1	1	0.24415	1996
3.1.14	Galvanometer	1	1	0.04925	1996
3.1.15	Electronic Null Detector	1	1	0.06875	1996
3.1.16	Digital strain indicator	1	1	0.08	1995
3.1.17	Rotameter for Water	3	3	0.18	1995
3.1.18	Dead weight Tester	1	1	0.27865	1995
3.1.19	Comparison Tester	1	1	0.13415	1995
3.1.20	Vacuum Pump	1	1	0.12049	1995
3.1.21	Hydraulic Hand Pump	1	1	0.048	1995
3.1.22	Torque Sensor	1	1	0.018	1995
3.1.23	Vacuum Measurement	1	1	0.2285	1995
3.1.24	Proving Ring Accessories	1	1	0.16	1995
3.1.25	Pressure Cells	1	1	0.068	1995

3.1.26	Digital Pressure Indicator	1	1	0.058	1995
3.1.27	Torque Transducer	2	2	0.216	1995
3.1.28	Torque Indicator	2	2	0.099	1995
3.1.29	Vibration Analyzer	1	1	0.72029	1995
3.1.30	Decade Resistance	1	1	0.01944	1996
3.1.31	5 channel Digital Strain Indicator	1	1	0.12075	1999
3.1.32	Power supply unit	1	1	0.155	2000
3.1.33	DC Micro Voltmeter	1	1	0.0711	2000
3.1.34	Non contact Thermometer	1	1	0.1518	2005
	Total			6.21673	

DYNAMICS LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Cam Analysis Machine	1	1	0.09	1987
3.1.2	Whirling of Shaft	1	1	0.09	1987
3.1.3	Static and Dynamic balancing Machine	1	1	0.065	1987
3.1.4	Vibration Setup	1	1	0.32	1987
3.1.5	Universal Governor	1	1	0.105	1987
3.1.6	Flywheel Setup	1	1	0.01395	1992
3.1.7	Internal and external Epicyclic Gear Train & Gyroscope	1	1	0.7815	2003
3.1.8	Multi – Degree freedom Suspension System	1	1	0.1885	2008
3.1.9	Vibration System-Spring Mass System	1	1	0.1885	2008
3.1.10	Cam Analyzer	1	1	0.285	2008
3.1.11	Dynamic Balancing Machine	1	1	1.21338	2010
3.1.12	Universal Governor	1	1	0.69212	2010
3.1.13	Dynamics Balancing Machine	1	1	1.21338	2011
	Total			5.24633	

METALLURGY LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Muffle Furnace	1	1	0.1023	1993
3.1.2	Metallurgical Binocular Microscope & Accessories	4	4	0.54166	1995
3.1.3	Weighing Balance	1	1	0.03933	1986
3.1.4	Microscope	1	1	0.0973	1993
3.1.5	Metallurgical Microscope	1 set	1 set	0.12694	1989
3.1.6	Linisher Polisher	1	1	0.03957	1993
3.1.7	Single Disc Polisher	1	1	0.05276	1993
3.1.8	Hot Air Oven	1	1	0.03124	1993
3.1.9	Metallographic Metascan	1	1	0.40459	1993
3.1.10	Metallurgical Microscope	1	1	0.11448	1995
3.1.11	Sand Weighing Scale	1	1	0.31421	1992
3.1.12	Pyromatic Double Disc Polisher Machine	1	1	0.30759	1997
3.1.13	Electric Weighing Balance	1	1	0.13332	1998
	Total			2.30529	

I.C. ENGINES LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Twin Cylinder Diesel Engine	1	1	0.4	1987
3.1.2	Kirloskar Diesel Engine	1	1	0.097	1994
3.1.3	Greaves Cotton diesel Engine	1	1	0.18698	1990
3.1.4	Two Stroke Diesel Engine Model	1	1	0.012	1987
3.1.5	Four Stroke Petrol Engine Model	1	1	0.012	1987
3.1.6	Four Stroke Diesel Engine Model	1	1	0.012	1987
3.1.7	Two Stroke Petrol Engine Model	1	1	0.0082	1987
3.1.8	Maruti Omni Engine	1	1	0.26306	0.2002
3.1.9	Anil Engine	1	1	0.67	1999
3.1.10	MK-12 Petrol Start Kerosene run Engine	1	1	0.085	1999
3.1.11	Greaves Engine (VCR)	1	1	0.117	
3.1.12	Generator 2KVA VCR	1	1	0.0725	
3.1.13	Sound level Meter	1	1	0.12 037	2002
3.1.14	Drilling & Grinding Machine	1	1	0.33187	2003
3.1.15	Pyranometer	1	1	0.27364	2004
3.1.16	Twin Cylinder Diesel Engine	1	1	1.59705	2008
3.1.17	Greaves 10 HP Air cooled Diesel engine	1	1	0.4275	2010
	Total			4.68617	

FUELS AND LUBRICATION OIL TESTING LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Redwood Viscometer	1	1	0.0233	1993
3.1.2	Saybolt's Viscometer	1	1	0.02325	1993
3.1.3	Abels flash Point Apparatus	1	1	0.0875	1997
3.1.4	Bomb Calorimeter With Beckman (Digital)	1	1	0.30871	2001
3.1.5	Junker's Gas Calorimeter	1	1	0.3089	2001
3.1.6	Bio-fuel Equipment	1	1	0.41328	2005
3.1.7	Bomb Calorimeter	1	1	0.77629	2006
3.1.8	Cleveland Flash and Fire Point Apparatus (Open cup)	1	1	0.06968	2009
3.1.9	Flash and Fire Point Apparatus (Closed cup)	1	1	0.06968	2009
3.1.10	Orsat's Apparatus	1	1	0.08528	2009
3.1.11	Red Wood Viscometer	1	1	0.07488	2009
	Total			2.24075	

HEAT TRANSFER LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Thermal Conductivity of Metal Bar	1	1	0.0875	1988
3.1.2	Heat Exchanger	1	1	0.082	1988
3.1.3	Cooling Tower - Blower, Geyser	1	1	0.2376	1986
3.1.4	Pin-fin Apparatus	1	1	0.29568	1995
3.1.5	Stefan Boltzman Apparatus	1	1	0.20977	1995
3.1.6	Emissivity Apparatus	1	1	0.21049	1996
3.1.7	Thermal Conductivity of Insulating Powder	1	1	0.18535	1996
3.1.8	Thermal Guarded hot Plate	1	1	0.25144	1996
3.1.9	Composite Walls	1	1	0.21648	1996
3.1.10	Thermal Conductivity of Liquids	1	1	0.351	1999
3.1.11	Heat Exchanger	1	1		2006
3.1.12	Stefan-Boltzman Apparatus	1	1	0.39596	
3.1.13	Lagged Pipe Apparatus	1	1	0.42484	2007

3.1.14	Natural Convection Apparatus	1	1		
3.1.15	Forced Convection Apparatus	1	1		
3.1.16	Pin-Fin Apparatus	1	1	0.57304	2007
	Total			3.52115	

STEAM LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Steam Boiler and Accessories	1	1		1993
3.1.2	Steam Calorimeter	1	1		1993
3.1.3	Steam turbine with Generator	1	1		1993
3.1.4	Steam Condenser	1	1	6.7	1993
	Total			6.7	

REFRIGERATION AND AIR CONDITIONING LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Air Compressor (Two Stage)	1	1	0.18	1987
3.1.2	Air Blower	1	1	0.25	1987
3.1.3	Refrigeration Test Rig	1	1	0.343	1988
3.1.4	Air Conditioning Test Rig	1	1	0.51	1988
	Total			1.283	

ENGINE RESEARCH CENTRE

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Single Cylinder Air Cooled Diesel Engine	1	1	0.162	1995
3.1.2	AVL Indicator with Software	1	1	12.0558	1995
3.1.3	Smoke Meter	1	1	6.09401	1995
3.1.4	Exhaust Gas Analyzer (Five Gas)	1	1	2.79684	1999
3.1.5	Computer	1	1	0.83	1995
3.1.6	UPS(1)	1	1	0.115	1999
3.1.7	Air Conditioner	1	1	1	1995
3.1.8	Stabilizer	1	1	0.056	1995
3.1.9	PC Bases Data	1	1	0.3573	2001

3.1.10	Laser Jet Printer	1	1	0.18	2001
3.1.11	Charge Amplifier (New)	1	1	1.475	2004
3.1.12	Data Logger	1	1	1.23072	2003
3.1.13	High Pressure Indicating Set	1	1	1.94739	2005
3.1.14	Exhaust Gas Analyzer	1	1	2.8292	2005
3.1.15	Inverter for Exhaust Gas Analyzer	1	1	0.21938	2005
3.1.16	Digital Pentium PC	1	1	0.72	2007
3.1.17	Excel make UPS	1	1	0.1326	2001
3.1.18	Electronic Balance	1	1	0.12712	2006
3.1.19	Excel Make 1000 VA/24v UPS System	1	1	0.1326	2008
3.1.20	Solar Flat Plate Collector	1	1	0.1196	2009
3.1.21	Tachometer Analog Type	1	1	0.055	2009
3.1.22	Loading Device	1	1	0.3654	2011
3.1.23	1 KVA Numeric UPS	1	1	0.06772	2012
3.1.24	Load Cell Indicator	1	1	0.07	2012
3.1.25	Computer Revolving Chair	1	2	0.0561	2012
3.1.26	Inverse Solver Software (Version-16.00)	1	1	1.266	2012
3.1.27	Hot Air Generator Box	1	6		
3.1.28	Heater with sensor controller pannel	1	1	0.14634	2012
3.1.29	AVL Indimicro 602T with Diesel package	1	1	12.10831	2013
3.1.30	Single Cylinder 4 stroke Air Cooled Diesel Engine	1	1	0.378	2013
	Total			47.09343	

CAD / CAM LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	IBM SERVER X3400 Quad Core Xeon	1	1	1.4395	2008
3.1.2	IBM e-server,P3,1.26GHz, 512MB	1	1	1.0802	2002
3.1.3	IBM Intelli Station PIII 866 MHz-17"Mon	2	2	1.43212	2001
3.1.4	Acer - Intel (R) core TM 2 Duo CPU, E4700@2.60GHz,2GB DDR2 ram, 320GB HDD,20" Monitor	30	30	8.07	2009

3.1.5	HP –Intel (R) core TM 2 Duo CPU, E4700@2.60GHz,4GB DDR2 ram, 320GB HDD,19” Monitor	5	5	1.565	2009
3.1.6	HP –Elite 7100,Intel (R) core TM i3 CPU3.07GHz,8GB DDR3 ram, 320GB HDD, 18.5” Monitor	5	5	2.26	2011
3.1.7	Intel 410T-24 port 10/100 mbps switch	2	2		
3.1.8	Avaya cat5 1/0	28	28		
3.1.9	Avaya 24 port jack panel	2	2		
3.1.10	Communication rack (with all cables)	1	1	1.22937	2002
3.1.11	Hitachi LCD Projector	1	1		2009
3.1.12	HP LaserJet 1022	1	1	0.122	2005
3.1.13	7.5 KVA Nutech Engineers UPS	1	1	1.144	2009
3.1.14	7.5 KVA Nutech Engineers UPS - (Transferred from EE)	1	1	1.144	2009
3.1.15	18”Wall Mounting Fan (Almonard)	5	5	0.1818	2002
3.1.16	HP Scan Jet G3010	1	1	0.07945	2008
3.1.17	Denford –Nova Mill -£12,126	1	1	8.4882	1996
3.1.18	Denford – Nova Turn -£8,110	1	1	5.677	1996
3.1.19	Air compressor	1	1	0.18521	1998
3.1.20	5.0 TR Ductable A/c	1	1	1.20999	1996
3.1.21	7.5 TR Ductable A/c	1	1	1.68	1996
	Total			36.98784	

PG CAD LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	HCL E7500, 2.93GHz	5	5	1.19	2010
3.1.2	HP PRO333OMT-Intel i3, 4GB, 500 HB HDD, DVD-R/W, 1GB Gragphics Card, HP 18.5 LED Monitor	15	20	6.2	2012
3.1.3	DELL Optiplux - Intel i3, 3rd Gen Processor, 500 GB HDD, HD2500 Gragphics Card, DVD-R/W, 18.5 LED Monitor	15	30	7.5	2013

3.1.4	Cisco 2950-C, Switch 24 port 10/100				2005
3.1.5	Cisco 2024-T, Switch 24 port 10/100				2012
3.1.6	APW-12U Racks,500 mm single section 230V AC	2	3	1.70846	2005
3.1.7	HP LaserJet P1007	1	1	0.059	2010
3.1.8	TVS MSP 345	1	1	0.12	2005
3.1.9	7.5 KVA UPS EXOTIC	2	2	1.13	2011
3.1.10	7.5 KVA UPS EXOTIC	1	1	1.07	2012
3.1.11	4 KVA Stabilizer	1	1	0.03	2004
3.1.12	Toshiba LCD Projector	1	1	3.7	2003
3.1.13	18" Wall mounting fan	4	4	0.18	2008
3.1.14	5.0 TR Ductable A/c	1	1	1.20999	1996
3.1.15	5.5 TR Ductable split A/c	1	1	0.90001	2005
3.1.16	1.5 TR Window A/c	1	1	0.165	2005
3.1.17	HP colour printer (CP1025)	1	1	0.1428	2011
3.1.18	600 VA UPS Numeric	1	1	0.017	2011
	Total			25.32226	

MECHATRONICS LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Basic Pneumatic Trainer Kit	1	1	0.6971	2007
3.1.2	Basic Electro Pneumatic Trainer Kit	1	1	1.57377	2007
3.1.3	Basic Electro Pneumatic Trainer Kit with PLC	1	1	1.73851	2007
3.1.4	Hydraulic Linear Actuator system	1	1	2.06771	2007
3.1.5	Digital PID Controller with Temp. control system	1	1	0.41102	2007
3.1.6	Stepper Motor Milli step Interfacing with up Servo Controller	1	1	1.25317	2007
3.1.7	Multi Process Station	1	1	1.75447	2007
3.1.8	Spilt A/C 1.5 Ton with stabilizer (Carrier Make)	1	1	1.5414	2008
3.1.9	LABVIEW v8.5 software Full module 2009	1	1	8.58	2009

3.1.10	7.5 KVA UPS New Tech Engineering Power	1	1	0.988	2009
3.1.11	Desktop-Dell-IntelCore	10	5	1.5225	2011
3.1.12	False ceiling and Computer table			2.67225	2011
3.1.13	Computer Revolving Chair		36	1.00988	2012
3.1.14	H.P. Laser Printer Model-P1007		1	0.059	2010
3.1.15	Pressure Transmitter with 1psi pressure		1	0.1189	2012
3.1.16	Thullu-pump-80 motor		1	0.0315	2012
3.1.17	Wall Mounting Fan		4	0.07849	2012
3.1.18	Pedastal Fan		2	0.0443	2012
3.1.19	Internet Switch 24 port		1	0.17561	2012
3.1.20	USB Acquisition card for Temperature measurement		1	0.5985	2012
3.1.21	Air Compresor (Transferred from Dynamics Lab)		1	0.2	2007
3.1.22	Desktop - Samsung (Tranferred from)		5	1.2875	2007
	Total			28.40358	

VIBRATION LAB

Sl. No.	Description	Requirement as per AICTE norms	Actually Provided	Cost in Lakhs	Year of Purchase
3.1.1	Electro Dynamic Shaker (50 kgf)	1	1	6.969	2006
3.1.2	Accelerometer (2 sets)	1	1		
3.1.3	Air Blower	1	1		
3.1.4	PC with Color Printer	1	1		
3.1.5	Power Amplifier	1	1		
3.1.6	Signal Conditioner	1	1		
3.1.7	Low noise Accelerometer Cable (2 Nos)	1	1	0.288	2009
3.1.8	Data Acquisition Hardware	1	1	6.81026	2010
3.1.9	Vibration Analysis software module	1	1		
3.1.10	Photon + PC Based Dynamic Signed Analyzer	1	1		
3.1.11	Analog I/P Channel with ICP Power	2	2		

3.1.12	ICP type Accelerometer with 17 ft Cable	2	2		
3.1.13	Impulse Hammer	1	1	0.86788	2010
3.1.14	Force Transducer	1	1		
3.1.15	5.0 KVA online UPS (12 V-42AH 15 Nos)	1	1	0.906	2011
3.1.16	VT-620 Visual ODS™ S/W	1	1	1.47	2011
3.1.17	Computer Revolving Chair	1	8	0.22442	2012
3.1.18	Wall Mounting Fan	1	3	0.0583	2012
3.1.19	Tri-axis Accelerometer Cable	1	2	1.785	2013
	Total			19.37886	

31 Number of students receiving financial assistance from college, university, government or other agencies: **Not applicable**

32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

33 Teaching methods adopted to improve student learning:

1. For the subject Engineering Graphics, explaining the concepts with solid models
2. For the subject like Manufacturing Technology, using PPTs, showing videos, case studies, visit to industries to show the metal casting process, gear manufacturing process, grinding wheels manufacturing process

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

Dr.Raja delivered lecturer at St. Joesph's college of engineering in the topic on 'Deflection of Beams'. In the faculty development program on thermodynamics and strength of materials held during March 7 & 8, 2013
Dr.J.Venkatesan explained the importance of FDP and introduced overall content of the syllabus and handled a technical session on Conduction heat transfer at St. Joesph's college of engineering

35 SWOC analysis of the department and Future plans

Strength of Department : Highly qualified and stable faculties
Weakness of the Department : Not many Professors emeritus

Five year plan of the Department of Mechanical Engg

Academic year	Plan
2013-2014	<p>New research Cell/Centre: The following research cell/centre to be started, with the funds from college and other funding agencies through grants.</p> <ul style="list-style-type: none"> • Vibration research cell • Heat treatment and metallographic studies cell • Computational Mechanics centre – modeling, simulation and analysis • Centre for Nanotechnology • Centre for Quality management • Robotics & Automation cell • Materials testing centre • Metal forming centre • Energy auditing & Exergy cell • Centre for Composite technology <p>Starting new academic courses: Ground work for the start for one UG and one PG course in the next year</p>
2014-2015	<ul style="list-style-type: none"> • All the research centres are to be developed by adding facilities • Utilization of the cells for consultancy and research • Starting full time B.E Mechatronics and M.E Manufacturing engg. Courses
2015-2016	<ul style="list-style-type: none"> • Efforts to be taken to equip the research cells with state-of-art facilities • Full fledge usage of the research centres for training, consultancy and research • Produce one or more M.S research and a PhD through the research cells • Starting full time B.E Manufacturing engg and M.E Thermal engg and M.E Product Design and Development courses
2016-2017	<ul style="list-style-type: none"> • Conduct workshops, production, training, consultancy using the facilities available in the research cell • Produce more M.S by research and PhD from within the college and as well as surrounding institutions • Faculty development programme for teachers and Skill development programme for lab technicians are to be conducted • Starting full time B.E Industrial engg and M.E Energy engg. Courses
2017-2018	<ul style="list-style-type: none"> • Starting M.E Industrial engg. Course • Get approval from university for conducting Part time PG courses • Renaming the department as “School of Mechanical Sciences”

Evaluative Report of the Departments

Department: **MASTER OF COMPUTER APPLICATION**

- 1 Name of the department : MASTER OF COMPUTER APPLICATION
- 2 Year of Establishment : 1995
- 3 Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : PG - MCA
- 4 Names of Interdisciplinary courses and the departments/units involved: Nil
- 5 Annual/ semester/choice based credit system (programme wise): Semester
- 6 Participation of the department in the courses offered by other departments: Nil
- 7 Courses in collaboration with other universities, industries, foreign institutions, etc. NIL
- 8 Details of courses/programmes discontinued (if any) with reasons - NIL
- 9 Number of Teaching posts

	Sanctioned	Filled
Professors	2	2
Associate Professors	3	3
Asst. Professors	9	9

- 10 Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr . M. Jayamala	Ph.D	Professor and Head of the department	Mathematics	35	--
S. Muraleedharan	MBA	Professor	MBA	26	--
S. Raju	ME, (Ph.D)	Associate Professor	CSE	18	--
P. Janarthanan	ME, (Ph.D)	Associate Professor	CSE	15.5	--
K. R. Ramkumar	ME, (Ph.D)	Associate Professor	CSE	12	--
S. Uvaraj Arutkumaran	ME	Assistant Professor	CSE	18	--
N. Rajeswari	ME, (Ph.D)	Assistant Professor	CSE	11	--
K. Srinivasan	ME	Assistant Professor	CSE	12	--
E. Rajalakshmi	ME	Assistant Professor	CSE	8	--
T. Padmavathy	ME	Assistant Professor	CSE	9	--

R. Bhuvaneshwari	ME	Assistant Professor	CSE	9	--
N. Jayalakshmi	ME	Assistant Professor	CSE	9.5	--
S. Muthurajkumar	ME, (Ph. D)	Assistant Professor	CSE	5	--
S. Jerusha	M. Tech	Assistant Professor	IT	1	--

- 11 List of senior visiting faculty : Nil
- 12 Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty : Nil
- 13 Student -Teacher Ratio (programme wise) : 12 : 1
- 14 Number of academic support staff (technical) and administrative staff; sanctioned and filled

Name of the Post	sanctioned	Filled
Instructor	2	2
Attender	1	1

- 15 Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/ PG.:
- i. One teaching faculty with Ph.D. ii) One teaching faculty with MBA, Five faculty is doing his research work, and iv) All teaching faculty with PG

16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : 2

17 Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received : DRDO – Rs: 12.23 Lacks

18 Research Centre /facility recognized by the University : No

19 Publications:

Publication per faculty

Number of papers published in peer reviewed journals (national / international) by faculty and students - 30

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil

- Monographs : Nil
- Chapter in Books : Nil
- Books Edited : Nil
- Books with ISBN/ISSN numbers with details of publishers : Nil

- Citation Index : Nil
- SNIP : Nil
- SJR : Nil
- Impact factor : Annexure - I
- h-index : Nil

Name of the Faculty	Number of research publications in journals and conferences since joining		Number of research publications in journals and conferences since joining	
	NJ	NC	INJ	INC
Dr . M. Jayamala	11			
S. Muraleedharan				
S. Raju		1	2	-
P. Janarthanan	1	1		
K. R. Ramkumar	4			
S. Uvaraj Arutkumaran		1		
N. Rajeswari	1			
K. Srinivasan		1		
E. Rajalakshmi		1		
T. Padmavathy		1		
R. Bhuvaneswari		1		
N. Jayalakshmi	1			
S. Muthurajkumar		1		
S. Jerusha		1		

20 Areas of consultancy and income generated : Nil

21 Faculty as members in

a) National committees b) International Committees c) Editorial Boards - NA

22 Student projects :

a) Percentage of students who have done in-house projects including inter departmental/programme

S. No	Name of the Programme	% of students
1	M.C.A	85

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

S. No	Name of the Programme	% of students
1	M.C.A	15

23 Awards/ Recognitions received by faculty and students :

Faculty:

S. No	Name of the Faculty member	Awards/Recognition received
1	K. R. Ramkumar	BEST TEACHER AWARD in

		SVCE
2	S Raju	Long Service Award

Awards / recognitions received at the national and international level by Student

S. No	Name of the Student	Awards/Recognition received
1	Nil	--

24 List of eminent academicians and scientists/ visitors to the department: Nil

25 Seminars/ Conferences/Workshops organized & the source of funding :

a)National – 3

Workshops	Any other contributions institute industry	Developed /or gained by	Durations	Resource persons	Target audience
CASE tools	Institute SVCE	Faculty from various educational institutions	1 day	Faculty from this institute	Faculty
NS2	Institute SVCE	Faculty from various educational institutions	1 day	Faculty from this institute	Faculty and Post graduate students
NS2	Institute SVCE	Faculty from various educational institutions	5 days	Faculty from this institute	Faculty and Post graduate students

b) International - Nil

26 Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
MCA	54	54	26	28	
	59	59	40	19	
	48	48	31	17	

*M=Male F=Female

27 Diversity of Students:

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MCA	99	1	0

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? : Not Applicable

29 Student progression :

Student progression	Against % enrolled
UG to PG	0
PG to M.Phil.	0
PG to Ph.D.	0
Ph.D. to Post-Doctoral	0
Employed	
• Campus selection	65
• Other than campus recruitment	15
Entrepreneurship/Self-employment	10

30 Details of Infrastructural facilities

a) Library:

Room Description	Usage	Shared / Exclusive	Capacity	Rooms Equipped with
Seminar Room Number				
Department Library 2113	Meeting Room	Exclusive	20 students Area = 22 m ²	<ul style="list-style-type: none"> ➤ Table ➤ Executive Chair ➤ Computer ➤ White board

b) Internet facilities for Staff & Students:

Room Description	Usage	Shared / Exclusive	Capacity	Rooms Equipped with
Faculty rooms (n)				
Faculty Room (1) Room No: 2102	Faculty	Exclusive	1 faculty Area = 21 m ²	<ul style="list-style-type: none"> ➤ Computer with Internet Connection ➤ Air Conditioner ➤ Printer ➤ Intercom ➤ Table & Chairs ➤ Book Rack ➤ Tube light ➤ Wood cupboards

c) Class rooms with ICT facility:

Room Description	Usage	Shared / Exclusive	Capacity	Rooms Equipped with
Class Room Number				
Class Room cum Tutorial Room No. –	1 st Year 'A'	Exclusive	60 students Area=64.86m ²	<ul style="list-style-type: none"> ➤ Desks ➤ Tables

2112	Batch			➤ Black Board ➤ Over Head Projector ➤ Projector screen
Class Room cum Tutorial Room No. – CB 204	1 st year 'B' Batch	Exclusive	60 students Area=64.86m ²	
Class Room cum Tutorial Room No. – CB 102	2 nd year 'A' Batch	Exclusive	60 students Area= 64.86m ²	
Class Room cum Tutorial Room No. – CB 103	2 nd year 'B' Batch	Exclusive	60 students Area=64.86m ²	
Class Room cum Tutorial Room No. – CB 2201	3 rd year	Exclusive	60 students Area=64.86m ²	

d) Laboratories:

Laboratory Description	Exclusive/ Shared	Space, No.Of.Students	No. Of. Experiments	Quality Of Instrument	Lab Manual
MC9217 - Programming and Data Structures Lab	EXCLUS IVE	Lab 1 – 66 m ² 30 students	8	Turbo C Version 3.0 1*	AVAI LAB LE
MC9218 - DBMS Lab		Lab 2 – 66 m ² 30 students	9	Microsoft SQL Server 2005 Microsoft Visual Studio 2008 with Licensed Version Antivirus with Licensed Version 2*	
MC9226 – Object Oriented Programming Lab		Lab 1 – 66 m ² 30 students	14	Turbo C Version 3.0 1*	
MC9227 – System Software Lab		Lab 2 – 66 m ² 30 students	13	Linux Server C Compiler available with Linux OS Desktop machines with remote login to Linux Server 2*	

MC9228 – Algorithms Lab	Lab 1 – 66 m ² 30 students	10	Turbo C Version 3.0 1*
MC9236 – Graphics Lab	Lab 1 – 66 m ² 30 students	4	Turbo C Version 3.0 Adobe Photoshop Flash 1*
MC9237 – Microprocessor Lab		4	8086 Microprocessor Kit TASM /MASM/ NASM Software(PC) 8255 Traffic Controller Interface Stepper Motor Interface. CRT Interface for waveform Generator DC Motor controller Interface 8279 Keyboard / Display Controller ADC / DAC Interface Board
MC9238 – Web Programming Lab	Lab 2 – 66 m ² 30 students	14	IE Browser IIS Server Photoshop 2*
MC9245 – Visual Programming Lab	Lab 2 – 66 m ² 30 students	11	Visual Studio 6 Visual Studio .net 2*
MC9246 – Network Programming Lab	Lab 2 – 66 m ² 30 students	5	C,C++,Java Linux and Windows OS 2*
MC9247 – CASE Tools Lab	Lab 2 – 66 m ² 30 students	7	Rational Software Architect 2*
MC9253 – Middleware Technology Lab	Lab 2 – 66 m ² 30 students	4	Java SDK (1.6) IIS Server IE/Mozilla Browser Visual Studio (COM, DCOM) JAVA , J2EE (RMI, CORBA),C# and .NET 2*
MC9254 – Software Development Lab	Lab 2 – 66 m ² 30 students	7	Rational Software Architect 2*

1* : Intel Core i3-IIIrd Generation Processor with 4 GB RAM,500 GB HDD(Dell),LCD Monitor Available- 30 systems Intel Core i3- 530 Processor with 4 GB RAM, 500 GB HDD(Dell),LCD Monitor,Available- 15 systems

2*: Intel Core i3 – 2120 Processor with 4 GB RAM, 500 GB HDD(Dell), LCD Monitor Available- 20 systems Intel Core 2 Duo Processor with 2GB RAM, 160 GB HDD Available- 20 systems

31 Number of students receiving financial assistance from college, university, government or other agencies: Not Applicable

32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : Nil

33 Teaching methods adopted to improve student learning :

- a) Continuous Assessment Tests are conducted thrice per semester which are needed to evaluate the student .Model laboratory examinations are conducted for lab courses.
- b) Processes of analyzing results (both internal and university)
- c) Processes to improve the faculty strength
- d) Processes to understand the efficacy of teaching
- e) Visiting industries and software companies helps in improving co-curricular activities.
- f) Processes for developing extracurricular activities are also practiced

34 Participation in Institutional Social Responsibility (ISR) and Extension activities

- Public Awareness Camps
- Social Awareness Programs

35 SWOC analysis of the department and Future plans

Strengths

- Enthusiastic faculty
- Diverse backgrounds
- Versatile and talented faculty
- Research in current areas of Information Technology
- Good support from non-teaching staff

Opportunities

- Incorporating technology into courses (video, pod casts, etc.)
- Development of Web based online courses
- Continuous knowledge updation
- Setting up of specialized research labs and centres
- Innovation in teaching learning process

Weaknesses

- Consultancy work to be improved.
- Lack of Patents
- Research partnership with industries
- International collaboration to be improved
- Lack of Inter-disciplinary projects

Challenges:

- Students with diverse background
- Constant changes to technology
- Balancing administrative and academic load
- Adapting to changing student expectations

Future Plans:

- Developing Post Graduate and Ph.D programmes.

Evaluative Report of the Departments

Department : **APPLIED CHEMISTRY**

1. Name of the department : APPLIED CHEMISTRY
2. Year of Establishment : 1985
3. Names of Courses offered : Ph.D.,
4. Names of Interdisciplinary courses & the departments/units involved :

S. No.	Programme	Theory	Lab
1.	B.Tech. (II year)	Organic Chemistry	Organic Chemistry Lab
2.	B.Tech. (II year)	Physical Chemistry	Physical Chemistry Lab
3.	B.Tech. (II year)	Instrumental Methods of Analysis	Chemical Analysis Lab
4.	B.Tech. (III year)	---	Technical Analysis Lab
5.	B.E. (II year Marine)	---	Boiler Chemistry Lab

5. Annual/ semester/choice based credit system (programme wise) : Nil
6. Participation of the department in the courses offered by other departments: Refer item No.4
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil
8. Details of courses/programmes discontinued (if any) with reasons : Nil
9. Number of Teaching posts

	sanctioned	Filled
Professors	1	1
Associate Professors	---	---
Asst. Professors	9	9

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.):

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.G.Devasagayam	M.Sc.,M.Phil.,Ph.D.,	Professor	Catalysis	27.7	--
Dr.S.Selvakumar	M.Sc.,Ph.D.,	Assistant Professor	Industrial Catalysis	22.0	--
Dr.S.Jegannathan	M.Sc.,Ph.D.,	Assistant Professor	Electrochemistry	19.5	--
Dr.S.Stanly	M.Sc.,Ph.D.,	Assistant Professor	Environmental Chemistry	18.8	--
Dr.G.Baskar	M.Sc.,M.Phil.,Ph.D.,	Assistant	Organic Synthesis	10.9	--

		Professor			
Dr.B.Senthil Sivakumar	M.Sc.,M.Phil.,Ph.D.,	Assistant Professor	Metal-Organic Chemistry	08.0	--
Dr.M.Thirumalaikumar	M.Sc.,Ph.D.,	Assistant Professor	Organic Chemistry	11.0	--
Ms.B.Preetha	M.Sc.,M.Phil.,	Assistant Professor	General Chemistry	05.5	--
Mr.N.Nachiappan	M.Sc.,(Ph.D-doing),	Assistant Professor	Industrial Chemistry	18.0	--
Ms.S.Karthika	M.Sc.,M.Phil.,	Assistant Professor	Electrochemistry	01.0	--

11. List of senior visiting faculty : Nil
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty : Nil
13. Student -Teacher Ratio (programme wise) : --- NA
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

	sanctioned	Filled
Instructor	1	1
Attender	2	2

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.:
Faculty with Ph.D. : **7** ii) Faculty with M.Phil., : **2** and iii) One faculty is doing his research work.
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : Nil
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received : Nil
18. Research Centre /facility recognized by the University : Our Department is recognized as Research Centre by Anna University. Twelve candidates have registered for part time Ph.D.

Name of Supervisor	No. of candidates registered for part time Ph.D.
Dr.S.Selvakumar	1
Dr.S.Jegannathan	2
Dr.S.Stanly	3
Dr.G.Baskar	3
Dr.B.Senthil Sivakumar	2
Dr.M.Thirumalaikumar	1
Total	12

19 Publications:

a) Publication per faculty

Number of papers published in peer reviewed journals (national / international) by faculty and students :

Name of Faculty	National	International
Dr.G.Devasagayam	-	1
Dr.S.Selvakumar	2	-
Dr.S.Jegannathan	-	3
Dr.S.Stanly	2	-
Dr.G.Baskar	1	-
Dr.B.Senthil Sivakumar	1	-
Dr.M.Thirumalaikumar	-	4
Mr.N.Nachiappan	-	2
Total	6	10

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil

- Monographs : Nil
- Chapter in Books : Nil
- Books Edited : Nil
- Books with ISBN/ISSN numbers with details of publishers : Nil
- Citation Index : Nil
- SNIP : Nil
- SJR : Nil
- Impact factor : Annexure - III
- h-index : Nil

LIST OF PUBLICATIONS (January 2009 – February 2013)

Dr.G.Devasagayam

1. Combination analysis of a direct injection diesel engine when fuelled with sunflower methyl ester and its diesel blends. G.L.N.Rao, S.Saravanan, P.Selva Ilavarasi and **G.Devasagayam**. *Int. J. Vehicle Design*, **50** (2009) 289-303. **(Impact factor : 0.46)**

Dr.S.Selvakumar

1. Removal of chromium (VI) from aqueous solutions using Activated Carbon prepared from Flame tree seed coat. **S.Stanly**, S.Selvakumar and Banumathi Arabindoo. *Asian J chem.*, **21**(9) (2009) 6877-6884. (**Impact factor : 0.213**)
2. Isopropylation of Ethyl Benzene Using MCM-41 and Metal Substituted MCM-41. **S.Selvakumar**, S.Stanly and Banumathi Arabindoo. *Asian J chem.*, **22**(7) (2010) 5313-5322. (**Impact factor : 0.213**)

Dr.S.Jegannathan

1. Zinc Phosphating of Aluminium by electrochemical method. **S.Jegannathan** and M.Thirumalaikumar. *International Journal of Contemporary Science, Engineering and Technology*, **2** (2011) 19-26.
2. Inhibition effects of Nitrones on the corrosion of mild steel in organic acid media. M.Thirumalaikumar and **S. Jegannathan**. *Portugaliae Electrochimica Acta* **29**(1) (2011) 1-8. (**Impact factor : 0.0588**)
3. Deoxygenation of nitrones using NaBH₄ –silicagel system. M.Thirumalaikumar, **S. Jegannathan** and S.Dharaniya. *International Journal of Chemical Sciences* **10**(4) (2012) 2027-2032. (**Impact factor : 0.063**)

Dr.S.Stanly

1. Removal of chromium(VI) from aqueous solutions using Activated Carbon prepared from Flame tree seed coat. **S.Stanly**, S.Selvakumar and Banumathi Arabindoo. *Asian J chem.*, **21**(9) (2009) 6877-6884. (**Impact factor : 0.213**)
2. Isopropylation of Ethyl Benzene Using MCM-41 and Metal Substituted MCM-41 S.Selvakumar, **S.Stanly** and Banumathi Arabindoo. *Asian J chem.*, **22**(7) (2010) 5313-5322. (**Impact factor : 0.213**)

Dr.G.Baskar

1. Conformational analysis of some N-hydroxypiperidin-4-ones oximes. **G.Baskar***, M.Gopalakrishnan and J.Winferd. *Indian J chem.*, **48 B** (2009) 580-584. (**Impact factor : 0.500**)

Dr.B.Senthil Sivakumar

1. Synthesis and Characterization of Iron(III) and Uranyl(II) Complexes of some salicyloylhydrazones. **B. Senthil Sivakumar** and A.Manimekalai. *Asian J chem.*, **21**(7) (2009) 5228-523. (**Impact factor : 0.213**)

Dr.M.Thirumalaikumar

1. Enantioselective Michael Addition Reactions. **M.Thirumalaikumar** *Organic Preparations and Procedures International* **43** (2011) 67-129. (**Impact factor : 1.232**)

2. Inhibition effects of Nitrones on the corrosion of mild steel in organic acid media. **M.Thirumalaikumar** and S. Jegannathan. *Portugaliae Electrochimica Acta* **29**(1) (2011) 1-8. (**Impact factor : 0.0588**)
3. Zinc Phosphating of Aluminium by electrochemical method. S.Jegannathan and **M.Thirumalaikumar**. *International Journal of Contemporary Science, Engineering and Technology*, **2** (2011) 19-26.
4. Deoxygenation of nitrones using NaBH₄ –silicagel system. **M.Thirumalaikumar**, S. Jegannathan and S.Dharaniya. *International Journal of Chemical Sciences* **10**(4) (2012) 2027-2032. (**Impact factor : 0.063**)

Mr.N.Nachiappan

1. Effect of nitrogen and carbon dioxide as fuel impurities on PEM fuelcellperformances.**N.Nachiappan**,G.Paruthimal Kalaigan and G.Sasikumar. *International Journal of Ionics*, **19** (2013) 351-354. (**Impact factor : 1.3**)
2. Influence of methanol impurity in hydrogen on PEMFC performance. **N.Nachiappan**,G.Paruthimal Kalaigan and G.Sasikumar. *International Journal of Ionics*, **19** (2013) 517-522. (**Impact factor : 1.3**)

20 Areas of consultancy and income generated : Nil

21 Faculty as members in

a) National committees b) International Committees c) Editorial Boards...Nil

22 Student projects : Not Applicable

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

23 Awards/ Recognitions received by faculty and students : Nil

24 List of eminent academicians and scientists/ visitors to the department: Nil

25 Seminars/ Conferences/Workshops organized & the source of funding : Nil

a)National

b)International

26 Student profile programme/course wise: Not Applicable

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M=Male F=Female

27 Diversity of Students: Not Applicable

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad

28 How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? : Not Applicable

29 Student progression : Not Applicable

Student progression	Against enrolled	%
UG to PG		
PG to M.Phil.		
PG to Ph.D.		
Ph.D. to Post-Doctoral		
Employed		
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 		
Entrepreneurship/Self-employment		

30 Details of Infrastructural facilities

- a) Library : Central Library
- b) Internet facilities for Staff & Students : Two terminals with internet facility
- c) Class rooms with ICT facility : Nil
- d) Laboratories:

Infrastructure	Requirement per AICTE norms	Actually Provided	Cost In lakhs	Year of Purchase
Conductivity meter	10	10	84840	06.01.2012
Electronic Balance	1	1	110250	10.08.1996
Electronic Balance	1	1	4340	26.03.2010
Flame Photometer	1	1	21016	13.06.1996
Gas Chromatograph	1	1	529254	30.11.1996
GC Packed Columns	3	3	5832	09.05.1998
Hot Plate	4	4	9923	23.02.2012
Heating Mantle	20	20	140000	08.04.2006
High Temp Bath	2	2	35102	23.11.2005
Infusion Pump	1	1	42640	06.01.2000

Magnetic Stirrer	2	2	3780	14.02.1997
Magnetic Stirrer	2	2	3654	25.09.1999
Magnetic Stirrer	2	2	3844	25.09.1999
Machanical Shaker	2	2	12648	23.03.1996
Muffle Furnace	1	1	10372	13.01.1997
Melting Ponit Appts	2	2	4585	30.12.2006
Melting Ponit Appts	1	1	2288	23.02.2007
NepheloTurbiditymeter	2	2	17732	25.06.1996
NepheloTurbiditymeter	2	2	19508	09.06.1998
Orbital Shaker	1	1	34502	07.05.1998
Orbital Shaker	1	1	40768	23.12.2008
pH Meter Digital	3	3	26988	05.11.2007
pH + Conductivity meter	4	4	38220	15.02.2012
pH + Potentiometer	4	4	34020	15.02.2012

pH + Conductivity meter with combined electrode	8	8	88872	06.01.2012
Potentiometer, digital	2	2	9531	02.07.1996
Potentiometer, digital	3	3	8580	08.06.1998
Potentiometer, digital	2	2	8760	01.06.1998
Potentiometer, digital	4	4	16779	06-01-12
Polarimeter	2	2	5263	05.07.1996
Polarimeter	2	2	15984	16.08.1996
Polarimeter	1	1	17500	06.04.2006

Infrastructure	Requirement as per AICTE norms	Actually Provided	Cost In lakhs	Year of Purchase
Photocolorimeter	2	2	15284	30.05.1996
Photocolorimeter	4	4	32812	29.07.1998
Photocolorimeter	2	2	16620	09.02.2005
Photoelectric colorimeter	3	3	21735	15.02.2012
Peristaltic Pump	1	1	39000	21.02.2003
Photo Reactor	1	1	114900	23.03.2009
Refractometer(abbes)	2	2	20639	02.12.1995
Refrigerator	1	1	15100	19.11.1999
Rectifier	2	2	22069	28.02.2007
Spectrophotometer	1	1	31185	15.02.2012
Ultra Cryostat	1	1	29299	23.11.2005
UV-visible spectrophotometer	1	1	85456	30.05.1996
Vacum Pump	1	1	13534	28.08.1996
Conductivity meter	4	4	33155	31.05.2011

31 Number of students receiving financial assistance from college, university, government or other agencies: Not Applicable

32 Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : Nil

33 Teaching methods adopted to improve student learning :

- Using modern aids like Power Points, smart class room, animation tools, etc
- Teaching through demonstration and experimentation.
- Giving study materials for students to enrich the learning process.

34 Participation in Institutional Social Responsibility (ISR) and Extension activities:

35 SWOC analysis of the department and Future plans:

1. Academic:

i) To enhance the academic excellence, faculty will strive hard to achieve the student pass percentage of above 90% .

ii) To publish reference books in the field of Engineering Chemistry to improve the academic performance of first year students.

iii) To set up one more Chemistry Laboratory to cater to the needs of periodical increase intake of the first year UG students.

2. Research:

i) To improve the facility in the existing Research Centre of our Department, it is planned to set up two research labs, one on Environmental & Corrosion Studies and other on Organic Synthesis.

ii) To enhance and uptake the knowledge of the research scholars registered in our centre, it is planned to establish a Department Library.

iii) To increase the number of research publications in the reputed National/ International journals.

iv) To enhance the research facilities, faculty will interact with the experts for collaborative research with leading research institutes and submit proposals for funded projects.

Evaluative Report

Department: APPLIED PHYSICS

- 1 Name of the department: Applied Physics
- 2 Year of Establishment: 1985
- 3 Names of Programmes / Courses offered-----, Ph.D.,
- 4 Names of Interdisciplinary courses and the departments/units involved-- Nil
- 5 Annual/ semester/choice based credit system (programme wise) --- NA
- 6 Participation of the department in the courses offered by other departments-- NA
- 7 Courses in collaboration with other universities, industries, foreign institutions, etc. -- NA
- 8 Details of courses/programmes discontinued (if any) with reasons -- NA
- 9 Number of Teaching posts

	sanctioned	Filled
Professors	2	2
Associate Professors	-	-
Asst. Professors	6	6

- 10 Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.S.Sampathkrishnan	M.Sc.,Ph.D	Professor	Spectroscopy		-
Dr.A.Bhaskaran	M.Sc.,Ph.D	Professor	Environmental Science		-
Dr.A.Anandavadivel	M.Sc.,Ph.D	Asst.Prof	Dielectric materials		-
Dr.S.Muthu	M.Sc.,M.Phil.,Ph.D	Asst.Prof	Spectroscopy, Material science	13	-
Dr.K.Raju	M.Sc.,M.Phil.,Ph.D	Asst.Prof	Ultrasonics	10	
Ms.N.R.Sheela	M.Sc.,M.Phil(Ph.D)	Asst.Prof	Spectroscopy	12	
Ms.G.Bharathy	M.Sc.,M.Phil	Asst.Prof	crystallography	9	
Ms.S.Kalpana	M.Sc.,M.Phil.,(Ph.D)	Asst.Prof	Thin film	12	

- 11 List of senior visiting faculty-----

- 12 Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty-- NIL
- 13 Student -Teacher Ratio (programme wise)--- NA
- 14 Number of academic support staff (technical) and administrative staff; sanctioned and filled= 2
- 15 Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.:
- Ph.D Qualification: 5*
- M.Phil Qualification: 3*
- 16 Number of faculty with ongoing projects from a) National b) International funding agencies and grants received-- Nil
- 17 Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received---- Nil
- 18 Research Centre /facility recognized by the University: *Anna University Chennai*
19. Publications:

Paper publications of individual staff members

(1) Dr.S.Sampathkrishnan

Number of papers published in peer reviewed journals (national / international) by faculty and students ----- 10

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)----- 6

- Monographs -----
- Chapter in Books-----
- Books Edited -----
- Books with ISBN/ISSN numbers with details of publishers-----
- Citation Index -----
- SNIP-----
- SJR----- 0.17 (5 papers),
- Impact factor -----0.266(5 papers) 1.328(1 paper), 2.098(1paper)
- h-index -----

(2) Dr.A.Bhaskaran

Number of papers published in peer reviewed journals (national / international) by faculty and students ----- 8

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-----

- Monographs-----
- Chapter in Books-----
- Books Edited -----
- Books with ISBN/ISSN numbers with details of publishers----- 1
- Citation Index -----
- SNIP-----
- SJR-----
- Impact factor -----0.266 (1 paper)
- h-index -----

(3) **Dr.A.Anandavadivel**

Number of papers published in peer reviewed journals (national / international) by faculty and students -----

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-----

- Monographs-----
- Chapter in Books-----
- Books Edited -----
- Books with ISBN/ISSN numbers with details of publishers-----
- Citation Index -----
- SNIP-----
- SJR-----
- Impact factor-----
- h-index -----

Dr.S.Muthu

Number of papers published in peer reviewed journals (national / international) by faculty and students ----- 25

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-----22

- Monographs-----
- Chapter in Books-----
- Books Edited -----
- Books with ISBN/ISSN numbers with details of publishers-----
- Citation Index ----- 66
- SNIP
- SJR----- 0.17(4 papers)
- Impact factor : 2.098(16 papers), 1.907(3 papers),1.611(1 paper),1.328(1 paper), 0.266 (3paper), 0.324(1 paper)
- h-index ----- 4

(4) **Dr.K.Raju**

Number of papers published in peer reviewed journals (national / international) by faculty and students -----5

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-----3

- Monographs-----
- Chapter in Books-----
- Books Edited -----
- Books with ISBN/ISSN numbers with details of publishers-----
- Citation Index -----
- SNIP-----
- SJR----- 0.17(3 papers)
- Impact factor ----- 0.266 (3paper),
- h-index -----

(5) **Ms.N.R.Sheela**

Number of papers published in peer reviewed journals (national / international) by faculty and students -----5

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-----4

- Monographs-----
- Chapter in Books-----
- Books Edited -----
- Books with ISBN/ISSN numbers with details of publishers-----
- Citation Index -----
- SNIP
- SJR-----0.17 (1 paper)
- Impact factor ----- 2.098(1 papers), 1.611(1 paper), 0.324(1 paper)
- h-index -----

(6) Ms.G.Bharathy

Number of papers published in peer reviewed journals (national / international) by faculty and students ----- 1

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-----

- Monographs-----
- Chapter in Books-----
- Books Edited -----
- Books with ISBN/ISSN numbers with details of publishers-----
- Citation Index -----
- SNIP-----
- SJR-----
- Impact factor -----
- h-index -----

(7) Ms.S.Kalpana

Number of papers published in peer reviewed journals (national / international) by faculty and students : 1

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-----

- 20. Areas of consultancy and income generated -- Nil
- 21. Faculty as members in
 - a) National committees b) International Committees c) Editorial Boards...Nil
- 22. Student projects
 - a) Percentage of students who have done in-house projects including inter departmental/programme----- NA
 - b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies-----NA
- 23. Awards/ Recognitions received by faculty and students-----NA
- 24. List of eminent academicians and scientists/ visitors to the department
- 25. Seminars/ Conferences/Workshops organized & the source of funding
 - a)National -----NIL
 - b)International-----NIL
- 26. Student profile programme/course wise:NA

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M=Male F=Female

- 27. Diversity of Students-----NA

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? ----- NA
29. Student progression-----NA

Student progression	Against enrolled	%
UG to PG		
PG to M.Phil.		
PG to Ph.D.		
Ph.D. to Post-Doctoral		
Employed		
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 		
Entrepreneurship/Self-employment		

30. Details of Infrastructural facilities
- a) Library
- b) Internet facilities for Staff & Students ; ALL the staff (8)
- c) Class rooms with ICT facility-----
- d) Laboratories:
- Physics Lab-1 Area (60x33) Sq.Ft
 - Physics Lab-2 Area (60x33) Sq.Ft
31. Number of students receiving financial assistance from college, university, government or other agencies- NA
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts-NA
33. Teaching methods adopted to improve student learning- Smart class rooms constructed for make the learning easy - Nil
34. Participation in Institutional Social Responsibility (ISR) and Extension activities-NA
35. SWOC analysis of the department and Future plans

1. Academic

To maintain academic pass percentage above 95% both semesters and helping and guiding more number of the U.G Projects.

2. Research:

- a. With the vision of getting recognition as a research department, and with the vision of increasing the number of research publications, the members are interested to set up a pollution analysis center, dielectric research center, ultrasonic and crystal growth center with spectroscopic studies. The proposed activities fall under the research on applied Physics and are widely in demand.

The proposed research centers are well phased out for a period of five years from now as evident in the budget outlay.

- b. Increased publications and established research laboratories in the above mentioned areas will position the department to be recognized as research department and will increase the visibility of the department and in turn increase churning of research scholars to take up active research in the applied areas.
- c. To conduct short-term program and a National Conference in thrust areas of Applied Physics
- d. To publish reference Books in the areas of Applied Physics
- e. To apply more number of the funded projects.

3. Conference

- a. The visibility of the department in the international arena becomes more prominent when national/International conferences are conducted. The department is projecting itself to act as a platform for research scholars during the academic years 2015-2016 and 2017-2018 by conducting such a conference. This would facilitate exchange of scientific ideas and thoughts in the chosen fields.

Evaluative Report of the Departments

Department : **HUMANITIES AND SOCIAL SCIENCES**

1. Name of the department : Humanities and Social Sciences
2. Year of Establishment : 1985
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
4. Names of Interdisciplinary courses and the departments/units involved -- Nil
5. ~~Annual/~~ semester/~~choice~~ based credit system (programme wise)
Sem 1 – 4 credit Sem 2 – 4 credit Sem 5/6 – 2 credit
6. Participation of the department in the courses offered by other departments
NA
7. Courses in collaboration with other universities, industries, foreign institutions, etc. - NA
8. Details of courses/programmes discontinued (if any) with reasons NA
9. Number of Teaching posts

	Sanctioned	Filled
Professors	2	2
Associate Professors	0	0
Asst. Professors	6	6

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specilization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr T Murugavel	Ph.D	Prof. & Heads	ELT	22.3	
Dr T Ravindran	Ph.D	Professor	ELT	27	
Mr Samuel Dawson	MPhil	Assistant Professor	ELT	23.6	
Mrs Amutha Charu Sheela	MPhil	Assistant Professor	Literature	17	
Dr Vinatasai	PhD	Assistant Professor	Literature	14	
Mrs Monica Sriramulu	MPhil	Assistant Professor	ELT	4.3	
Mrs. Anichamalar	MPhil	Assistant Professor	Literature	3.7	
Mr P Ganapathy	MPhil	Assistant Professor	Litreature	1	

11. List of senior visiting faculty : 01
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty - Nil

13. Student -Teacher Ratio (programme wise) - NA
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : 01
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG. Ph. D -3 M.Phil - 5
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - Nil
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received - Nil
18. Research Centre /facility recognized by the University : Recognized as the Research Centre of Anna University
19. Publications:

a) Publication per faculty :

Sl. No	Name of Faculty	Title of Paper	Volume No. Page No.	Name of the Journal & Year
1	Dr T Murugavel	A preliminary report on the development of young Indian Eagle, owl, bubo, Bengal ensis (Franklin 1831) in and around pudhucherry southern India	Vol. I No.10 Page 497 to 540	Journal of Threatened Taxa – Oct 2009
2	Dr T Ravindran	Role of Modern English Teachers		English Teaching Professional - Nov 2011
3	Mrs. Amutha Charu Sheela	Style and Language in M.G.Vassanjis The Assassins Song	Vol 10: 1 ISSN 1930-2940	Language In India January 2010 (EBSCO host)
		London Dreams: Analysis of Tabish Khair's The Thing About Thugs as- an Anti Colonial Discourse	Vol 11: 12 ISSN 1930-2940	Language In India December 2011 (EBSCO host)
		Redefining Secularism : An Analysis of John Updike's Terrorist and Mohsin Hamid's reluctant Fundamentalist as Post	Vol 10:11 ISSN 1930-2940	Language In India November 2010 (EBSCO host)
				Defining the Ethos of New Millennium from American and

		September 11 Novels Between the Boundaries : Transnational Perspectives in M.G.Vassanji's "The Assassin's Song" and "Amriika"	International conference proceedings (Ethiraj college, Chennai)	Indian Literature March 2009
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Sl. No	Name of Faculty	Title of Book	Name of the Publisher	Year
1	Dr T Ravindran	Interpersonal Communication and Essential Jobs Skills	Oxford University Press	2010
2	Mrs. Amutha Charu Sheela	Aspects of Autobiography and Biography in Indian Writing in English	Special Volume by Language in India Vol 11: 11	2011 (EBSCO host)

Sl. No	Name of Faculty	Chapter in Books	Name of the Book	Name of the Publisher	Year
1	Mrs. Amutha Charu Sheela	House Divided Against itself: Frictions and Fusions in Gita Hariharan's <i>In Times of Siege and Fugitive Histories</i>	Tranforming Spirit of Indian Women Ed. Dr. Anita Balakrishnan	Author Press, New Delhi	2011
		Crisis of Secularism- David Davidar's The Solitude of Emperors as a search for pluralistic society	Language and Literature : English across cultures	St. John's College - Palayamkottai	2012

20. Areas of consultancy and income generated : Nil
21. Faculty as members in
- a) National committees b) International Committees c) Editorial Boards....
- a) National committees- 1 (Syllabus committee)
22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme - NA
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies - NA
23. Awards/ Recognitions received by faculty and students - Nil
24. List of eminent academicians and scientists/ visitors to the department - Nil
25. Seminars/ Conferences/Workshops organized & the source of funding
- a)National - Nil
- b)International – Nil
26. Student profile programme/course wise: - NA

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M=Male F=Female

27. Diversity of Students : NA

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. ? -NA

29. Student progression - NA

Student progression	Against % enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities
- a) Library
 - b) Internet facilities for Staff & Students - available
 - c) Class rooms with ICT facility – 1 Classroom
 - d) Laboratories – 3 Labs
31. Number of students receiving financial assistance from college, university, government or other agencies - NA
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts - NA
33. Teaching methods adopted to improve student learning :
- Other than conventional method of teaching the department also resorts to virtual methodology ,e-learning, Smart board Teaching and LCD projectors.
- Participation in Institutional Social Responsibility (ISR) and Extension activities
- Assist the management in administration
- Motivate the students to participate in various social welfare activities like NSS, ROTRACT and LEO.
- Encourage the students to participate in various association activities like Speaker’s Forum, CARE – Eco-Club.
- 35 SWOC analysis of the department and Future plans :
- Erudite faculty members
 - well equipped laboratory with an array of language learning software.
 - well stocked library with titles pertaining to English language teaching and learning.
- W – No autonomy in syllabus usage.
 O – Conducting classes for Competitive Exams like TOEFL, IELTS, GRE, GMAT, CAT – Verbal
 C – Teaching Mixed ability / proficiency group.

Evaluative Report of the Departments

Department : APPLIED MATHEMATICS

1. Name of the department :Department of Applied Mathematics
2. Year of Establishment:1985
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): Ph.D
4. Names of Interdisciplinary courses and the departments/units involved:NA
5. Annual/ semester/choice based credit system (programme wise) :Semester
6. Participation of the department in the courses offered by other departments: Handling classes for all UG/PG mathematics course
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: NA
8. Details of courses/programmes discontinued (if any) with reasons: NA
9. Number of Teaching posts

	Sanctioned	Filled
Professors	1	1
Associate Professors	1	1
Asst. Professors	14	14

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.R.Muthucumaraswamy	PhD	Professor and Head	Theoretical and Computational Fluid Dynamics	26	2
Dr.B.Thilaka	PhD	Professor	Stochastic Processes	14.5	
Dr.D.Meiyappan	PhD	Assistant Professor	Fuzzy groups	18.5	
Dr.A.R.Vijayalakshmi	PhD	Assistant Professor	Theoretical and Computational Fluid dynamics	15.5	
Dr.T.Kulandaivel	PhD	Assistant Professor	Theoretical and Computational Fluid dynamics	18.5	

Dr. B Srutha Keerthi	PhD	Assistant Professor	Complex Analysis	14.5	
Ms.Tina Lal	M.Phil	Assistant Professor	Fluid dynamics	9.5	
Mr.M. Radhakrishnan	M.Phil	Assistant Professor	Theoretical Fluid dynamics	13.5	
Ms.V.Valliammal	M.Phil	Assistant Professor	Fluid dynamics	12.5	
Mr.B.Saravanan	M.Phil	Assistant Professor	Computational Fluid dynamics	9.5	
Ms.A.Suba(A.Subbu (a) Suba)	M.Phil	Assistant Professor	Fluid dynamics	9	
Dr. G. Satheesh Kumar	PhD	Assistant Professor	Algebra	4.5	
Ms. E Subha	M.Phil	Assistant Professor	Graph theory	3.5	
Ms. K.Vijayalakshmi	M.Phil	Assistant Professor	Computational Fluid dynamics	16.5	
Dr.R. Umadevi	PhD	Assistant Professor	Computational Fluid dynamics	2.5	
Ms.P. Thenmozhi	M.Phil	Assistant Professor	Algebra	2.8	

11. List of senior visiting faculty: NA
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:NA
13. Student -Teacher Ratio (programme wise)(NA)
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: Nil
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/PG.
Number of Faculty with PhD Qualification – 9
Number of Faculty with M.Phil Qualification - 7
16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: 1
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:
 - Dr R Muthucumaraswamy successfully completed his first DRDO Sponsored project under extramural research grant Rs. 2.67 Lakhs. **Year: 2009 (2008-2010)**
 - Dr R Muthucumaraswamy, successfully completed his second DRDO Sponsored project under extramural research grant Rs. 2.14 lakhs. **Year 2010 (2010-2012)**

- Dr B Srutha Keerthi, got funded project from Department of Science and Technology (DST), New Delhi under Science and Engineering Research Board (SERB). The value of the grant is Rs. 2 Lakhs. **Year 2012**

18. Research Centre /facility recognized by the University:

Department of Applied Mathematics is recognized research centre to conduct PhD degree programme by Anna University Chennai, April 2011.

19. Publications

Faculty Name	National Journals	International Journals	Citation Index
Dr.R.Muthucumaraswamy	6	85	
Dr.B.Thilaka		1	
Dr.D.Meiyappan		-	
Dr.A.R.Vijayalakshmi		12	6
Dr.T.Kulandaivel		6	
Dr. B Srutha Keerthi	5	13	5
Ms.Tina Lal		3	
Mr.M. Radhakrishnan	1	6	1
Ms.V.Valliammal		6	4
Mr.B.Saravanan		1	
Dr. G. Satheesh Kumar		3	
Dr.R. Umadevi		4	

- Number of papers published in peer reviewed journals (national / international) by faculty and students
- Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Monographs
- Chapter in Books
- Books Edited
- Books with ISBN/ISSN numbers with details of publishers
- Citation Index
- SNIP
- SJR

- Impact factor
 - h-index
20. Areas of consultancy and income generated :NA
21. Faculty as members in
- a) National committees b) International Committees c) Editorial Boards....
- **Role of Reviewer**
1. Dr R Muthucumaraswamy reviewer in five Journals
 International Journal of Fluid Mechanics (2 papers-2009)
 Journal of Energy Heat and Mass Transfer (2009)
 International Journal of Heat and Mass Transfer (2010)
 Indian Journal of Science and Technology (2010)
 Non-linear Analysis-Modelling and Control (2010)
 Heat Transfer Engineering
 Journal of Applied Mathematics
 Chamchuri Journal of Mathematics
 Engineering Applications of Computational Fluid Mechanics, (2012).
 Chemical Industry & Chemical Engineering Quarterly, (Serbia)(2012)
 Heat Transfer Research, USA.(2012)
 Journal of Engineering Mathematics (2012)
 Asia-Pacific Journal of Chemical Engineering (2013)
 Science Journal of Physics (2013)
 2. Dr.B.Thilaka reviewer in Annals of Operations Research (2012, 2013)
 3. Mr T Kulandaivel reviewed two papers in
 International Journal of Applied Mathematics and Computation(2009)
 4. Dr A.R.Vijayalakshmi reviewed one paper in Mechanica(2010)
- **Member of Editorial Board**
- Dr R Muthucumaraswamy is selected as Editorial board of **British Journal of Engineering and Technology, 2012.**
- **Membership**

Dr R Muthucumaraswamy is now member of “International Association of Engineers (IAENG), 2009.

- **Recognized PhD Supervisor(s)**

- Dr R Muthucumaraswamy, is recognized PhD supervisor at Bharathiar University and Manonmaniam Sundaranar University, Thirunelveli.
- Dr D Meiyappan, Assistant Professor is now recognized PhD supervisor at Bharathiar University, Coimbatore.
- Dr A R Vijayalakshmi, Assistant Professor, is recognized supervisor at Anna University Chennai and Manonmaniam Sundaranar University, Thirunelveli.
- Dr R Muthucumaraswamy, is now recognized PhD supervisor at Periyar University, Salem.

- **Role in conferences**

- **Year 2009**

Dr R Muthucumaraswamy is a Member of Advisory committee & Session chair:

National Conference on Data Mining and Data Warehousing, 25-March 2009, Bharath University, Chennai.

- **Year 2012**

Dr B Thilaka, chaired a paper presentation session in the “International Conference on Mathematics in Engineering and Business Management, Stella Maris College, 9-10 March 2012.

Dr R Muthucumaraswamy chaired a paper presentation session in the “National Conference on Recent trends in Advanced Mathematics, Eswari Engineering College, 7 December 2012.

22. Student projects: NA

- a) Percentage of students who have done in-house projects including inter departmental/programme
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

23. Awards/ Recognitions received by faculty and students:

Achievement in 2012

As Mark of respect to the Legendary Mathematician **SRI S Ramanujan** on his 125th Birth Anniversary, our Hon Prime Minister **Dr Manmohan Singh** announced this year as year of Mathematicians. The cricket Federation of India and AMN Global project jointly conducted under-17 all India cricket league championship in four different venues. The organizers are planned to honor 2012 Mathematicians.

The following Mathematicians (SVCE faculty) are honored by our Hon. Governor of Tamil Nadu **Dr Rosaiah**, during the closing ceremony at Singaram Pillai School grounds, Villivakkam on 29.4.2012.

1. Dr R Muthucumaraswamy – Professor & Head
2. Dr A R Vijayalakshmi –Assistant Professor
3. Dr T Kulandaivel – Assistant Professor (In absentia)
4. Dr B Srutha Keerthi – Assistant Professor (In absentia)
5. Ms Tina Lal – Assistant Professor (In absentia)
6. Mr M Radhakrishnan – Assistant Professor
7. Ms V Valliammal – Assistant Professor
8. Mr B Saravanan – Assistant Professor
9. Dr G satheesh Kumar – Assistant Professor
10. Ms E Subha – Assistant Professor

The above mentioned faculty members are received a certificate and silver medal from the organizers. The organizers are also planned to honor top 3 Mathematicians from their enrollment forms.

Dr R Muthucumaraswamy, Professor & Head, received the award for second position (out of top three Mathematicians) from the Governor of Tamilnadu, during the closing ceremony at Singaram Pillai School grounds, Villivakkam on 29.4.2012 at 4.30 pm. **The award carries certificate, silver medal and Gold coated cup.**

24. List of eminent academicians and scientists/ visitors to the department:
 - Dr. G. Sethuraman, Associate Professor, Anna University, Chennai.
 - Dr. V. Vijayalakshmi, Assistant Professor (SG), Anna University, Chennai.
 - Dr. K. Sankar, Assistant Professor, Anna University, Chennai.
 - Dr. R. Bharatri, Emeritus Professor (UGC), Loyola College, Chennai.
 - Dr. T.N. Shanmugam, Professor, Anna University, Chennai.
 - Dr. Prabhakaran, Assistant Professor, MIT , Chrompet.
 - Dr. M.P. Jayaraman, Assistant Professor, L.N.G. College , Ponneri
 - Dr. P.Ganesan, Professor, Anna University, Chennai
 - Dr. K.Sundar, Professor, IIT Madras
 - Dr. S. Velraj, Director, AU-FRG Centre for CAD/CAM Anna University

25. Seminars/ Conferences/Workshops organized & the source of funding

a) Workshops/Seminar:

- Dr Lisa Mathew, Assistant Professor, organized one day **Workshop on Selected topics in theoretical Computer Science** on 25th August 2009 (Rs. 10,000)
- Dr AR Vijayalakshmi, Assistant Professor, organized one day National Seminar on **Selected topics in Computational Fluid Dynamics** on 9th October 2010.
- Dr B Sruthakeerthi, Assistant Professor, organized one day National Seminar **on Geometric Function Theory**, 26th March 2011.(Rs. 9500)
- Dr B Thilaka, Associate Professor and Dr G Satheesh Kumar, Assistant Professor, Organized one day Workshop on Graph Theory – Introduction and its Applications, 3rd November 2012. (Rs. 10,000)

26. Student profile programme/course wise:NA

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	

*M=Male F=Female

27. Diversity of Students:NA

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NA

29. Student progression: NA

Student progression	Against % enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	

Student progression	Against % enrolled
Employed	
<ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities
- a) Department Library – 118 Books available in the department library
- b) Internet facilities for Staff –
- Number of computer with internet facility – 11
 - Number of printer -5
 - Number of scanner -1
 - UPS with powerful back up battery -2
 - Internet switch -2
 - Laptop -1
- c) Class rooms with ICT facility-NA
- d) Laboratories-NA
31. Number of students receiving financial assistance from college, university, government or other agencies: NA
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts: NA
33. Teaching methods adopted to improve student learning:
- Black board, Smart class rooms & LCD Projector.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
35. SWOC analysis of the department and Future plans
- To involve students in research activities
 - To train students for GATE Examination
 - To conduct at least one FDP and one National seminar in latest trends.