ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE

INTERNAL QUALITY ASSURANCE CELL (IQAC)

Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION

UNIVERSITY GRANTS COMMISION COUNCIL

Submitted by

SRI VENKATESWARA COLLEGE OF ENGINEERING

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REPORT FOR THE ACADEMIC YEAR 2012 – 13

August 2013

Part A:

Plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement

The institution has identified the following objectives covering various important activities in the institution.

1. Academic Objective
2. Employability Objective
3. Industry Objective
4. Research Objective
5. Professional Objective

Academic Objective

- To achieve a minimum pass percentage of 80% in the end semester examinations from 2008-09.
- To achieve academic excellence by:
  - improving full pass percentage in each end semester examinations by at least 2%, if the result is below 85%
  - improving full pass percentage by at least 1% per year, if the result is greater than 85%

From the Academic Year 2008-2009 for at least 3 years and review thereafter.

- To improve the pass percentage of a particular semester by 1%, when compared with the performance of earlier batch of the same semester of a particular programme.

Research Objective (RO):

- To establish sustained research programs in every department**,** by obtaining Research Cell status from Anna University by the departments within two years after achieving eligibility;
  - To publish at least two papers in national or international journals per year per eligible department
  - To obtain one externally funded project by every department at least once in three years
  - To attend at least one research seminar /symposia / workshop/ conference by every member of the faculty once in two years
  - Each member of the faculty to mentor at least two UG/PG projects every year
  - To organize at least 3 National Conferences per year and one International Conference every 3 years

Professional Development Objective (PO):

This pertains to the development of faculty and supporting staff professionally so that they may discharge their assigned functions effectively and efficiently. The management has set a goal of achieving following norms.

The faculties are recruited with post graduate qualification but if they are to contribute effectively to research and publish articles in the journals and conferences, it is essential that they acquire doctorate degree in their chosen field. Sometimes suitable candidates with PG degree may not be available but a potentially good teacher may be available with only graduate qualification. They must be encouraged to do PG course. With this in mind the management has set a norm of sponsoring 3% of the faculty for higher studies every year.

In order to teach effectively and guide students in their project work, the faculty must keep abreast of latest developments in their chosen field. This they can do by attending Faculty Development Programs like conferences, workshops and seminars. So the objective set a norm that each faculty must attend at least one FDP every two years.

A lot of improvement in development activities in the institution can be brought about by interacting with peers and leaders in the same field. Each discipline has at least one professional forum to bring engineers together once a year. These societies also bring News Letters and Journals for the benefit of members. Association with such societies is a form of professional development. To achieve this management requires that faculty members become members of at least one society within two years of joining.

Managing the department involves handling students, staff and faculty, initiating improvements in the laboratory like replacing obsolete equipment, plan for the future and managing the funds. This calls for management skills and hence it has been decided that two of the faculty who have put in reasonable period of service in the college and attained the designation of professor be sponsored for management training in reputed schools.

The laboratories are being equipped with modern equipment with latest technology. To operate and maintain these equipment the supporting staffs have to be trained in skill development programs. So the objective requires that at least 2% of the supporting staff be sponsored for skill development programs.

The objective leader, with the help of departmental coordinators, monitors the progress every six months and submits a report to the Management Representative. He also convenes a meeting of the coordinators once a month to discuss the achievement of the objective in each department. He is internally audited once in six months, prior to the Management Review Meeting, and is

answerable to any NCRs and is given opportunities for improvement by the internal auditors.

Revision of management objectives

- Plan for revision of Academic Objective, Employability Objective, Industry Objective, Research Objective and Professional Objective covering various important activities in the institution based on present needs.

Plan for promoting more research activities

- Enhancing research activities by applying funded projects from various funding agencies

Recreation Centre

- Plan for constructing open air auditorium as central facility for organizing various student events.

Plan for renewal of Anna university research centre status ,Chennai for the following

i. Computer science and Engineering

Section B:

1. Activities reflecting the goals and objectives of the institution

2. New academic programmes initiated (UG and PG)

EC: M.E Applied Electronics – Full time	Started in the year July 2012 with intake on 18 students
ME: M.E Internal Combustion Engineering – Full time	Started in the year July 2012 with intake on 18 students

Admission enhancement:

CE:	No. of students admitted to B.E Civil engg., programme increased from 30 to 60
CS:	No. of students admitted to B.E Computer Science engg., programme increased from 120 to 180
EC:	No. of students admitted to B.E Electronics and Communication engg., programme increased from 120 to 180
ME:	No. of students admitted to B.E Mechanical engg., programme increased from 90 to 120

3. Innovations in curricular design and transaction

BT:

The below mentioned suggestion were made by Dr. Sulochana Somasundaram.

Suggestions in the new Syllabus R 2013 for B.Tech –Biotechnology

- Bioinformatics lab should be included in Semester VI along with Bioinformatics Theory
- Total Quality Management and Creativity innovative and New products Development - both are management courses. One of the subjects could be shifted to semester VII and the Immunology from Semester VII could be included in the semester VI and Immunotechnology in the following semester as electives
- Immunotechnology, Cancer Biology should be included in the electives list.

Suggestions in the new Syllabus R 2013 for M.Tech- Biotechnology

- Enzyme technology and Industrial applications from the bridge course was deleted in the First semester and it could be included in the elective list and made compulsory for the B.Tech Biotechnology students. The other two

subjects** Chemical Engg for Biotechnologists for students who have (Science and Biology) M.Sc degree and ***Biology for Chemical Engineers for students who have (NonBiotech) B.E/B.Tech degree could be opted by the specific students.

- No splitup is given for electives lists for each semester. Electives could be splitup into two groups and included after each semester.
- The subjects in the elective list starting from Chemical Engg for Biotechnologists upto Communication skills and personality Development may be included for the first semester and the rest of the electives in the list may be added to the list in the second semester

CH:

- Dr.R.Parthiban, Member in PG courses , Curriculam and Syllabus sub committee, Faculty of technology, Anna University Chennai, (2013) – Syllabus for PG – Chemical Engineering , Petroleum and Petrochemical Engineering was completely framed by Dr.R.Parthiban and approved by the committee for implementation.

IT:

- FI 9073 Cloud Infrastructure and Virtualization and FI 9072 Cloud Security and Privacy were recommended to be included in the new regulations.

ME

- Dr.R.Ramesh has been appointed as a member of Board of studies in faculty of mechanical engineering by Anna University,Chennai for a period of 3 years up to 07/05/2016. Attended meeting on 24/05/2013 to approve new regulations R-2013 and curriculum and syllabus for UG&PG degree for the academic year 2013-2014.

4. Inter-disciplinary programmes started - - Nil

5. Examination reforms implemented

The college is affiliated to Anna university, Chennai. All the rules and regulations related to examinations are framed by the university. We follow the all the rules and amendments. The reforms are formulated by the university.

6. Candidates qualified: NET/SLET/GATE etc.

DEPARTMENT	NO. OF STUDENTS								
	NET	SLET	GATE	GRE	TOEFL	IELTS	CAT	XAT	SNAP
AE			06	03	03	03			
BT				12	05				
CH			03	11	10	04			

CE			01	04	04				
CS				10	10				
EE				07	07				
IT				02	02				
ME			04	17	17		05		

7. Initiative towards faculty development programme

All the faculty members are encouraged to develop their skill by attending workshops, seminars, FDP, SDP etc. They are also motivated to organize the same. Many of our teachers have attended such programmes and the details list is given in appendix 1.

8. Total number of seminars/workshops conducted

Name of Organizer/ Dept.	**Name of Seminars/workshops/ etc. Organised**	**Duration**
AE		
BT	A National Workshop on "Phytoproducts for Human Health and Environment Sustainability" Organized by Department of Biotechnology, SVCE.	27.02.2013 & 28.02.2013
	A National Workshop on "Modern Biotechnological Approaches for Food Processing" Organized by Department of Biotechnology, SVCE.	13.09.2012 & 14.09.2012
	A National level technical symposium "Omics'12" was organized by Department of Biotechnology, SVCE.	28.08.2012
CH	Organized National Conference on "INNOVATIONS IN PROCESS ENGINEERING FOR SUSTAINABLE DEVELOPMENT"	13th Sep to 14th Sep, 2012.
	AICTE Sponsored FDP on " Contemporary Research and Practices on Pollution Elimination Systems Towards Cleaner Environment"	20th May to 26th May 2013
CE	National workshop on Advances in Sustainable materials and Concrete Technology	18-10-2012
CS	Lecture on LISP : The Programmable Programming Language	23rd July, 2012
	Workshop on Research Methodology	25th July, 2012
	Inauguration of Data Sciences Open systems Next Generation (DON) Research Lab	27th July, 2012

	National Level Technical Symposium - Interrupt'12 - Android Workshop	3rd Sept, 2012
	Lecture on Ethical Hacking and Computer Forensic	15th Oct, 2012
	Special Lecture on Web Sciences	23rd Jan, 2013
	National Workshop on "Support Vector Machines : Foundations, Research Directions & Tools"	15th December, 2012
	Android Workshop	25th Jan, 2013
	Workshop on NS2 (Network simulator 2)	22nd Feb, 2013
	Lecture on Machine Learning	23rd Feb, 2013
	Workshop on HTML5/CSS3	5th March, 2013
	Lecture on Millennial Technology Solutions	20th April, 2013
EC	Workshop on "Design and development of UWB components for wireless applications"	2 days from 14/09/2012 to 15/09/2012
	Two day course on Instrument servicing and recent technologies in Electronics and Communication field for supporting staff on 4th and 5th December 2012.	4/12/2012 to 5/12/2012
	FDP on Latest Trends in EDA Communication Electronics and VLSI Technology	1 day - 13.02.2013
	Workshop on "Research Methodology and new directions in signal processing"	2 days From 01/04/2013 to 02/04/2013
EE	Guest lecture on neural networks & its applications	23/02/13
	Two days Workshop on Power Converters and Power Quality Issues on Wind Energy Conversion Systems	22/02/13 23/02/13
	Guest Lecture on Control Systems design using AutoCAD Electrical	18/02/13
	Two days workshop on DSP based system design using IT processor and FPGA	19/10/12 20/10/12
	Guest Lecture on Microprocessor and Interfacing	15/10/12
	Two days workshop on PLC based SCADA Automation	31/08/12 01/09/12
	Guest Lecture on HVDC and FACTS	27/08/2012
	Guest Lecture on Power optimization in wireless sensor network	26/07/2012
IT	Symposium-Protocol 15e	30-07-2012
	Guest Lecture on Cloud Computing	30-07-2012

	Guest Lecture on Ethical Hacking and Computer Forensics	15-10-2012
	Short term course on Ethical Hacking and Computer Forensics	11-12-2012 to 21-12-2012
	Invited talk on Higher Education in Germany	11-01-2013
	Workshop on DB2	18-01-2013 to 20-01-2013
ME	Six Sigma Green belt course in association with Western Thomson India	19/05/2013
		25-26 May 2013
		1-2 June 2013
	1 Day workshop on Recent trends in Engineering Tribology and suface characterization	29/09/2012
	1 Day workshop on Recent Trends On Emission control in I.C Engines	25/09/2012
	Seminar on "Simulation, Measurement & Condition Monitoring"	07/09/2012
CA	CASE TOOLS	05/01/2013
	NS2 Simulator	18/08/2012
AM	One day Workshop on Graph Theory– Introduction and its Applications	03/112012

9. Research projects a) Ongoing; b) Completed

Name & Designation of the Principal Investigator	Title	Sponsoring Agency	Date of commen-cement	Date of compl-etion	Total outlay (Rs. In Lakhs)
AE: Dr.N.Muthukrishnan Professor	Combustion Characteristics Of CRDI Multi Cylinder CI Engine Fuelled With Biodiesel Blend	AICTE MODROBS	13-02-2013	Feb. 2016	17.25
BT: Dr. M. Sivanandham Professor	"Upgradation of Bioprocess and Downstream Processsing Lab for Mammalian Cell Culture"	AICTE MODROBS	26-02-2013	26-02-2016	18.00
CH: Dr.R.Parthiban	Dynamic modeling and control of Direct Alcohol based PEM fuel cell	AICTE-RPS	13th Feb 2013	13th Feb 2016	4.77

CS: Dr.Susan Elias Professor	Network throughput Enhancement in Distributed System (Ongoing)	DRDO	October 2012	October 2014	24.64
EC: Dr.S.Ganesh Vaidyanathan	Modernization of Advanced Communication lab	AICTE	1.3.2013	One year	13.00
IT: Dr.G.Sumathi	A Framework for Resource Monitoring and Fault Tolerant scheduling in Heterogeneous Computational Grids	DRDO	1.4.2011	1.4.2013	Rs. 4,55,000/
IT: Ms. S. Swarna Parvathi	Robust Video Streaming using H.264 Scalable Video Coding over Mobile Broadband Networks	ISRO	1.3.2013	Feb. '15	Rs. 9,00,000/
ME: Dr.R.Ramesh	Investigation on Vibration Characteristics of Nano Silica\Micro Rubber reinforced Carbon fiber reinforced composite Structural beams	Research Promotion Scheme (RPS), AICTE	May 2013	On Going (3 years from date of commencement)	9.70
ME: Dr. K.Pitchandi Mr. P.Raghu	Experimental investigation on effect of fuel spray characteristics of direct injection diesel engine fuelled with biodiesel				16.00
ME: Dr. T.Raja Mr. V.Sridharan	Machining & Modeling of Polymer composites				12.25
ME: Dr.N.Muthukrishnan Mr. V.Gurusamy	ANN modelling of Pulsed Metal Inert Gas (p-MIG) welding of Magnesium Alloy plates				18.00
AM: Dr B Srutha Keerthi		DST	2012	Closed on May 2013	. 2.00

10. Patents generated, if any - nil

11. New collaborative research programmes

BT:

Colloboration with Brainwave Biosolutions PVT LTD (India) was initiated for offering internship and research projects to M.Tech Students

EE:

Two research projects at PG level was carried out in association with Mr.Ganesh Raja, Proprietor, GSV Microtech, Chennai.

12. Research grants received from various agencies

Agency	**Grant (Rs. In Lakhs)**	**Progress Ongoing/Completed**
DRDO	24.64	Ongoing
ISRO	9.00	Ongoing
AICTE-MODROBS	17.25 + 18.0+13.0	Ongoing
AICTE-RPS	4.77+41.94	Ongoing
DST	2.00	Closed

13. Details of research scholars

Ph.D Programme				
Dept	**On roll**		**Awarded**	
	Full time	**Part time**	**Full time**	**Part time**
AE	--	04	--	01
BT	03	03	--	01
CE	--	03	--	
CS	--	05	--	03
EC	--	06	--	02
EE	--	07+06	--	
IT	--	01	--	
MR	--	03	--	
ME	--	14	--	
CA	--	04	--	
AM	--	04		

14. Citation index of faculty members and impact factor

A total of 161 publications have been made with 94 in international and 67 in national journals. For details please refer appendix 2.

15. Honors/Awards to the faculty: National and International

Name Of The Teacher	Honor / Award	Awarding Agency/Body

AE:

Dr.N.Muthukrishnan	Reviewer for International Journals	Elsevier, Springer, Inderscience, Taylor Francis
	Research supervisor	Sathyabama University, St.Peter University
	Listed in the "Marquis who is who" in the world for the year 2013	"Marquis
Dr.S.Saravanan	DOCTORATE (PhD)	ANNA University, Chennai
	Reviewer for International journals FUEL, ENERGY and ENERGY FOR SUSTAINABLE DEVELOPMENT	Elsevier publishing Company

BT:

Dr.M.Sivanandham	➢ Chief Editor of International Journal of Contemporary Science & Engineering and Technology ➢ Life member in Society of biological Chemists of India, IISC Bang ➢ Member of the Scientific Advisory Board, Curevax Inc., Flemingto ➢ Member of the Editorial Board, American Journal of Chinese Med ➢ Editor, Biotechorum Newsletter of the Association for Biotechnolo ➢ Member of American Association of Animal Sciences ➢ Member of International Society for Vaccines ➢ Founding Member, Association for Biotechnologist, Coimbatore ➢ Member of the Scientific Advisory Board, Curevax Inc., Flemingto ➢ Member of the Editorial Board, American Journal	

	of Chinese Med ➢ Editor, Biotechorum Newsletter of the Association for Biotechnolo ➢ Member of American Association of Animal Sciences ➢ Member of International Society for Vaccines ➢ Founding Member, Association for Biotechnologist, Coimbatore	
Dr.Sulochana Somasundaram	➢ Member – Board of Studies – Technology- Anna university ➢ Reviewer-Indian Journal of Pharmaceutical Sciences, African Journal of Biotechnology, Journal of Bioprocessing and Biotechniques, Journal of Food Biochemistry, Applied Biochemistry an ➢ Biotechnology ➢ Life member of Indian Journal of Applied Microbiology ➢ Life membership in ISTE ➢ Life member in Society of biological Chemists of India, IISC Bangalore ➢ Reviewer-Indian Journal of Pharmaceutical Sciences, African Journal of Biotechnology, Journal of Bioprocessing and Biotechniques, Journal of Food Biochemistry, Applied Biochemistry and Biotechnology ➢ Life member of Indian Journal of Applied Microbiology ➢ Life membership in ISTE ➢ Life member in Society of biological Chemists of India, IISC Bangalore	
Dr.N.Karpagam	➢ Recognized as a Research Supervisor by Anna University, Chennai ➢ Life Member in Society for Tissue Engineering and Regenerative Medicine India-STERM ➢ Reviewer for Langmuir, Macromolecular Bioscience, Tissue Engineering and Journal of Orthopedic ResearchTechnical Committee Member – International Conference on Computational Systems in Engineering and Technology, SVCE	
Ms.P.Jaibiba	➢ Member of International Association of Engineers ➢ Life Member in Asia Federation of Biotechnology Association	

CH:

Dr.R.PARTHIBAN	**Honorary Joint Secretary** for *Indian Institute of Chemical Engineers* , Chennai Regional Centre (2010 – 2012)	*Indian Institute of Chemical Engineers*

CS:

Ms.Janakasudha	Best Presentation titled "Throughput Enhancement in Wireless Video Streaming"	Research Day,SVCE
Mr.Ramakrishnan	University First In M.E	Anna University
Ms.Anitha	University Second in M.E	Anna University
Ms.V.Vidhya	Cash award (Paper publication)	SVCE
Dr.T.K.Thivakaran	Cash award (Paper publication)	SVCE
Mr.E.Sivakumar	Cash award (Paper publication)	SVCE
Ms.R.Vanaja	Cash award (Paper publication)	SVCE
Ms.V.Rajalakshmi	Cash award (Paper publication)	SVCE
Ms.S.R.Malathi	Cash award (Paper publication)	SVCE
Ms.K.S.Gayathri	Best Paper for paper titled "Interactive Mining of high utility pattern using linked transaction datastreams"	Internet Research Network
Mr.S.Muthukumar	Best UG project for project titled "Workload nature adaptive cache replacement policy"	SVCE
Mr.N.M.Balamurugan	Best Paper Award for the paper titled" Physical and Graph based interference modeling and routing in MANET "	Easwari Engineering College

EC:

Ms.K.Srividhya	Best Teacher Award	SVCE

EE:

Dr. Sudhakar K Bharatan	Faculty research day Award	SVCE
A Tamizhselvan	Faculty research day Award	SVCE
D.S. Purushothaman	Faculty research day Award	SVCE
G.Aarthi	Faculty research day Award	SVCE

IT:

S.Swarna Parvathy	Paper Publication	SVCE
Ms P.Leela Rani	Paper Publication	
Ms K.Thaiyalnayaki	Paper Publication	
Ms K.Kiruthika Devi	Paper Publication	
Ms D.Jayanthi	Paper Publication	

ME:

Name Of The Teacher	**Honor / Award**	**Awarding Agency/Body**
Dr.R.Ramesh	Reviewer for International journal of materials and design	Elsevier
Dr.J.Venkatesan	Reviewer for Advances in nano research Reviewer for International Journal of Ambient Energy	Techno Press Taylor & Francis
S.Ilaiyavel	BEST TEACHER AWARD	SVCE

AM:

Name Of The Teacher	Honor / Award	Awarding Agency/Body
DR. R Muthucumaraswamy	Reviewer	Journal Asia-Pacific, Journal Of Chemical Engineering Science, Springer Plus, Elsevier
	Research/Publication –Cash Award	Svce
	Phd Thesis Examiner For Thesis Titled "Prandtl Number Dependence Of The Flow Past Plate With Or Without Stratification"	Gauhati University

	Recognised Guide For Doctoral Study	Anna University, Manonmaniam Sundaranar University, Thirunelveli, Bharathiar University, Coimbatore, Periyar University, Salem
	Chaired A Session In The "National Conference On Recent Trends In Advanced Mathematics"	Easwari Engineering College
Dr B Thilaka	Reviewer For Journal Annals Of Operations Research	Journal Annals Of Operations Research
	Invited Speaker For Faculty Development Training Programme On Discrete Mathematics	Mit, Anna University,Chennai
	Recognised Guide For Doctoral Study	Anna University
Dr D Meiyappan	Recognised Guide For Doctoral Study	Anna University, Bharathiar University, Coimbatore.
Dr A R Vijayalakshmi	Reviewer For Journal Thermal Science	Journal of thermal Science
	Recognised Guide For Doctoral Study	Anna University Manonmaniam Sundaranar University, Thirunelveli
	Research/Publication –Cash Award	Svce
Dr R Umadevi	Recognised Guide For Doctoral Study	Anna University

16. Internal resources generated

Department	Particular	Amount (Rs.)
AE	**Consultancy - M/s GATES UNITTA LTD** for testing an engine in the engine testing laboratory to evaluate the life time of the belt of various thickness manufactured	4.0 lakhs
BT	Registration fee obtained from National Workshop on " Modern Biotechnological Approaches for Food processing" held on 13th and 14th September 2012	26,400
	Registration fee obtained from National Workshop on " Phytoproducts for human health and environment sustainability" held on 27th and 28th February 2013	26,500
	Registration fee obtained from 'one week short term training programme on Bioprocess and Downstream processing Techniques' held on 3rd – 28th June 2013	67,000
	Consultancy work - Innovative health care Pvt. Ltd	6,600
	Consultancy work - Kumar organics	22,000
CH	National Conference on "Innovations In Process Engineering For Sustainable Development"– Registration Fees	5,550
	Sponsorship from CPCL Chennai For Pansophy'12	10,000
CE	Consultancy (Lab Testing)	21,750
CS	Android Workshop	11,600
	National Workshop on "Support Vector Machines : Foundations, Research Directions & Tools"	18,300
	Android Workshop	7,200
	Workshop on NS2 (Network simulator 2)	13,600
	Workshop on HTML5/CSS3	16,800
EE	AMIE Electrical Machines Laboratory Training programme	3,000
IT	Workshop on DB2	15,939
ME	AMIE Students –Lab utilization	33,000
	Thermal LAB and Metrology measurement lab utilization by external faculty research work	3,79,000
CA	CASE TOOLS – 1- DAY WORKSHOP (10 participants)	3,000

17. Details of departments getting assistance/recognition under SAP, COSIST (ASSIST)/DST, FIST, and other programmes

BT:

Assisting Agency	Details	Period	Amount
CTS	Consultancy for establishing new Computational System Biotechnology laboratory in the Department of Biotechnology	2012-2013	Rs.6,27,200

IT:

AICTE	Seminar Grant – National Conference on Communication and Informatics	2 days	Rs 75000-/-

18. Community services

NCC Army

16 cadets from NCC (Army) wing attended the centrally organized, "Combined Annual Training Camp," held at Pachayappa's College Hostel for Men, Kancheepuram during 20 June 2012 to 29 June 2012.

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50 cadets from NCC (Army) wing participated in the one day short range firing camp held at Tirusoolam firing range, on 24th January 2013.

Achievements:

16 NCC (Army) cadets and one ANO attended the 'Trekking Camp' to Jawadhu Hills during 8 February 2013 to 10-February 2013.

NCC NAVY

1. 20 parades were conducted for the training year 2012-13. The cadets were trained as per the training syllabus.
2. Independence Day (15 Aug 2012) and Republic Day (26 Jan 2013) were celebrated in SVCE Campus; cadets participated in flag hoisting and parade with great enthusiasm.
3. 12 Cadets have attended Annual Training Camp held in Satyabama University, Chennai from 02 Jan 2013 to 11 Jan 2013.
4. Cadets have undergone Boat Pulling training in Chennai port on 05 Feb 2013.

5. Cadets have undergone Weapon Training and Firing practice in Air force station, Tambaram Chennai on 19 Nov 2012.
6. Cancer awareness programme was conducted in the college on 08 Sept 2012. Dr.S.V.S.Bala, M.D., (Radiotherapy) Professor & HOD – Department of Radiotherapy of Government Arignar Anna Memorial Cancer Hospital, Kanchipuram, delivered a lecture on Cancer awareness. The lecture covered the topics such as types of cancer, diagnosis, preventive measures, symptoms, methods of treatment and discussed few case studies.

NCC Scholarship:

Our management is very generous in giving scholarship to the cadets excel in NCC apart from the other scholarship schemes. Each semester a Scholarship of Rs.20,000/- and instruments grant of Rs.3,000/- are awarded to the cadets is each division of NCC

NCC-Air Wing

Total Strength of the cadets: 50 (First year =42, Second year=08)

Cadets were given over 20 regular training sessions (Parades and theory classes) by our unit in our campus. Apart from this,

Camps:

Camp was conducted from 01st Aug. to 05th Aug.2012 at Sri Sai Ram Engineering College campus, Sai Leo Nagar, West Tambaram.

Cadre camp for SD/SW cadets was conducted from 01.02.13 to 09.02 2013 at SVCE campus.30 cadets were attended.

weapon training was conducted on 10 Feb 2013 at Sri Sai Ram Engineering College campus, Sai Leo Nagar, West Tambaram.

Social activities:

Blood Donation Camp:

As a part of their commitment to social cause our cadets organized a blood donation camp along with other clubs of SVCE on 8th, 9th October 2012. Our cadets donated 15 units of blood.

Rally on awareness against the evils of illicit:

conduct Awareness Campaign for creating awareness among the public by explaining the evils drinking illicit arrack. In this connection a rally has conducted on 30 Mar 13 at Kamarajar Salai (Marina Beach Road). 15 Air wing cadets participated.

B-Certificate Examination:

B certificate examination was conducted on 16th and 17th February 2013 at Sai Ram Engineering college, west Tambaram. 22 cadets appeared the exam.

C certificate Examination:

C certificate examination was conducted on 30th and 31st March 2013 at Air Force station, Tambaram. 08 Cadets appeared the exam.

Scholarships;

CUO Krishna III year AE, received a NCC scholarship of Rs. 30,000.(Odd sem.2012-2013)

Cdt.Sgt.Krishna III year EE, received a Books & Instruments scholarship of Rs.3000 from our college management

19. Teachers and officers newly recruited

Dept	Professor	Asso.	Asst. Professor	Lab
AE			05	01
BT		02	03	01
CH			06	
CE	01		03	
CS	02		11	
EC			07	01
EE			04	02
IT	01			
MR			02	
ME	01		09	
CA			01	

20. Teaching – Non-teaching staff ratio

Dept	Teaching Staff No.	Non-teaching Staff No.	Ratio
AE	12	05	2.40
BT	17	04	4.25
CH	23	07	3.30
CE	10	04	2.50
CS	33	06	5.50
EC	33	10	3.30
EE	32	10	3.20
IT	37	06	6.71
MR	13	10	1.30
ME	35	19	1.84
CA	13	03	4.33

21. Improvements in the library services

- Carpet area of library (in m^2) : 1338 sq m.
- Reading space (in m^2) : 665 sq m.
- Number of seats in reading space : 250
- Number of users (issue book) per day : 250
- Number of users (reading space) per day : 620
- Timings :

  Working days 08.00 a.m. to 08.00 p.m.
  Weekend and Holidays 10.00 a.m. to 03.30 p.m.
  Vacation 08.00 a.m. to 08.00 p.m.
- Number of library staff : 14
- Number of library staff with a degree in Library Management : 4
- Computerization for search, indexing, issue/ return records : Yes
- Bar coding used : Yes
- Library services on ~~Internet~~/Intranet : Yes
- INDEST or other similar membership archives :

  Yes MALIBNET, British Library, ACM, IEI, IEEE Student Branch

Titles and volumes per title

Number of titles : **25272** Number of volumes : **82741**

Number of New Titles added	Number of New editions added	Number of New Volumes added
1230	1354	6361

Scholarly journal subscription

Number of Technical Magazines / Periodicals	Number of total Technical Journals subscribed		Scholarly journal titles (in originals, reprints)
	In Hardcopy	In Softcopy	
79	292	688	742

Digital Library

- Availability of digital library content : Yes
- Number of Courses : 20
- Number of e-Books : 363
- Availability of an exclusive server? : Yes
- Availability over **intranet**/internet? : Yes by intranet
- Availability of exclusive space/room? : Yes
- Number of Users per day : 650

22. New books/journals subscribed and their value

Expenditures			
Books	**Magazine / Journals - hard copy subscription**	**Magazines / Journals - soft copy subscription**	**Misc. Contents**
25,00,968	15,91,001	19,19,183	11,67,419

23. Courses in which student assessment of teachers is introduced and the action taken on student feedback

At the mid of each semester, the students having attendance percentage of 85% and above would be submitting the online feedback on faculty members handling theory and lab classes for them in the format available online.

Once the students submit their feedback, the data is analyzed using the software available and the reports will be generated. The Head of the Department will then meet the faculty members individually and counsel them if necessary.

24. Feedback from stakeholders N/A

25. Unit cost of education

For a student strength of **4,211** (four thousand two hundred and eleven), the unit cost of education was **0.99 lakh** per student.

26. Computerization of administration and the process of admissions and examination results, issue of certificates

- Student's attendance is entered online.
- Student's Continuous Assessment marks are entered online and internal marks are generated accordingly.
- There is a dedicated website for the college in which all the activities are updated as and when occurring.
- Student's admission nominal roll, class time table, CAT test schedule, Hall allotment are made available online.

UG Results:

ODD semester

	I sem			III sem			V sem			VII sem		
	Appea red	**Passed**	**%**	**Appea red**	**Passed**	**%**	**Appea red**	**Passed**	**%**	**Appeare d**	**Passe d**	**%**
AE	63	36	57.14	72	33	45.83	71	36	50.7	62	48	77.42
BT	51	39	76.47	50/53	42	79.25	43	42	97.67	55	53	96.36
CE	30	24	80	36	15	41.67	36	18	50	33	23	69.7
CH	88	60	68.18	105	56	53.33	98	81	82.65	90	89	98.89
CS	185	139	75.13	146	75	51.37	145	70	48.28	117	78	66.67
EC	183	142	77.59	137	81	59.12	141	63	44.68	122	85	69.67
EE	121	93	76.86	140	86	61.43	141	88	62.41	124	105	84.68
IT	118	86	72.88	140	62	44.29	131	56	42.75	119	69	57.98
MR	27	13	48.14	30	11	36.67	29	21	72.41	30	29	96.67
ME	126	99	78.57	111	69	62.16	116	79	68.1	93/92	78	84.78
overall pass %	**992**	**731**	73.69	**967/ 970**	**530**	**53.51**	**951**	**554**	**58.25**	**845/ 844**	**609**	**80.28**

EVEN semester

	II sem			IV sem			VII sem			VIII sem			
	Appea red	**Passed**	**%**	**Appea red**	**Passed**	**%**	**Appea red**	**Passed**	**%**	**Appea red**	**Passed**	**%**	**Eligible to graduate**
AE	63	37	58.73	76	32	42.11	71	37	52.11	62	59	95.16	83.33
BT	51	39	76.47	53	49	92.45	43	43	100.0	55	55	100.0	96.36
CE	30	22	73.33	36	17	47.22	36	15	41.67	33	30	90.91	81.8
CH	88	64	72.73	105	80	76.19	99	76	76.77	90	89	98.89	95.55
CS	179/1	144	78.26	147	92	62.59	143/1	88	60.69	117	113	96.58	87.18
EC	182	143	78.57	135	89	65.93	141	94	66.67	121/1	113	92.62	86.06
EE	121	89	73.55	139/1	108	77.14	141	97	68.79	124	109	87.90	81.45/86.
IT	115/1	86	74.14	141	59	41.84	135/1	83	61.03	119	112	94.12	79.83
MR	25	17	68.00	30	11	36.67	29	29	100.0	30	26	86.67	86.66
ME	124	98	79.03	110	78	70.91	116	86	74.14	92	87	94.57	90.11
overall pass %	**978**	**739**	**73.28**	**972**	**615**	**61.30**	**954**	**648**	**70.19**	**843**	**793**	**93.74**	**87.32**

PG Results: **ODD semester**

	I sem			III Sem		
	appeared	**Passed**	**%**	**appeared**	**Passed**	**%**
BT	17	17	100.00	18	17	94.44
CH	8	8	100.00	2	2	100.00
CS	23	15	65.22	22	21	95.45
EC	41	36	87.80	24	20	83.33
EE	21	12	57.14	22	20	90.91
IT	14	10	71.43	15	9	60.00
ME	29	18	62.07	17	12	70.59
over all	153	116	77.67	120	101	84.96

Even semester

	II sem			IV sem			
	appeared	**Passed**	**%**	**appeared**	**Passed**	**%**	**Eligible to graduate**
BT	15	15	100.00	18	17	94	94.44
CH	8	8	100.00	1	1	100	100.00
CS	22	21	95.45	22	22	100	90.91
EC (CS)*	24	24	100.00	24	24	100	100.00
EC (AE)*	17	16	94.12	NA			
EE	22	21	95.45	22	22	100	100.00
IT	13	12	92.31	15	15	100	100.00
ME (ICE)*	16	15	93.75	NA			
ME (CAD)*	13	10	76.92	16	16	100	93.75
over all	150	142	94.22	118	117	99.21	97.01

ECE(CS)* - Communication System **MECH(ICE)* - IC Engines**

ECE(AE)* - Applied Electronics **MECH(CAD)* - Computer Aided Design** **NA - Not Applicable**

MCA: **ODD semester**

I sem			III Sem			V sem		
appeared	**Passed**	**%**	**appeared**	**Passed**	**%**	**appeared**	**Passed**	**%**
54	6	11.11	59	28	47.46	48	13	27.08

Even semester

II sem			IV sem			VI sem			
appeared	**Passed**	**%**	**appeared**	**Passed**	**%**	**appeared**	**Passed**	**%**	**Eligible to graduate**
54	22	40.74	58	35	60.34	48	48	100.00	79.10

27. Increase in the infrastructural facilities

The college is committed to increase the infrastructural facilities available in the institution. Each lab in every department is housed in a separate area. In computer assisted labs, each student is given a separate terminal to work with. During the present year the following facilities were added.

i. Construction of Open Air Theatre hall, over an area of 750 sq. m, was completed with an expenditure of Rs. 30 lakhs.

ii. Construction of Gents hostel Block II (G+2), over an area of 2657.16 sq. m, was started with an estimated cost of Rs. 630 lakhs.

iii. Construction of Ladies hostel Block III (G+2), over an area of 2657.16 sq. m, was started with an estimated cost of Rs. 650 lakhs.

28. Technology upgradation

Facilities Developed	**Amount (Rs.)**	**Funding source**

BT

Spray dryer	7,89,104/-	SVCE
Computational Systems Biotechnology Lab	6,27,000/-	CTS
Dot Blot Apparatus with Vaccum pump	1,10,625/-	SVCE

CH

Rotary Dryer	123824.00	SVCE
Computers 8 No's	252900.00	
6 KVA UPS	95000.00	
Laptop	29050.00	
Nitrogen & Acetylene gas Cylinders and regulators	119490.00	
Fume hood	35000.00	
Thermo Atomic Adsorption Spectrophotometer	749160.00	
IBM Server	128810.00	
Smart Class	36640.00	
FRP Coating for Existing Lab Equipment Collection Tanks	27253.00	
Vertical & Horizontal Condenser with data logging facility	370224.00	AICTE - MODROBS
Stefan Boltzman Apparatus with data Logging facility	300624.00	
Modernization of forced convection	97359.00	
Modernization of Heat Transfer by Natural Convection	116023.00	
Modernization of Transient Heat Conduction	111943.00	

Modernization of Vertical Bare and Finned Tube Heat Exchanger	161593.00	
Temperature Measurement and Controller using Various Transducers.	27980.00	
Data Acquisition System (9 No's)	272700.00	
UPS - (I KVA)(4 No's)	20000.00	
UPS – (600 VA)		

CE:

HP laser jet Printer	15,476.00	SVCE
LCD Projector	73,280.00	
Relative Density Apparatus	1,69,092.00	
Hardness testing Machine	65,206.00	

CS:

Hp Desktop Core I5 2nd Gen 2400, 3.10 Ghz, 8gb Ddr3, 500 Gb Hdd,Dvd Rw, Hp 18.5" Led Monitor	38,500.00	SVCE
Hp Desktop, Hp Pro 333 Mt, Core I3 3.3 Ghz, 4gb Ddr3, 500 Gb Hdd,Hp 18.5" Led Monitor	57,600.00	
Hp Desktop, Hp Pro 333 Mt, Core I3 3.3 Ghz, 4gb Ddr3, 500 Gb Hdd,Hp 18.5" Led Monitor	14,40,000.00	
Dell Optiplex 3010 Dt: Intel Core I3 - 3220, 3rd Generation Processor 3.3 Ghz, 3 Mb Cache, 4gb Ddr3 1600 Mhz Memory, 500 Gb Sata Hdd, Integrated Intel Hd 2599 Graphics, Dvd Writer, 18.5" Led Monitor, Mm Key Board & Mouse, 3 Yr On Site Warranty	10,00,000.00	
Hcl Me Laptop L1014, Intel Hm65 Mother Board, Bravlon 14" Imr Di W/Cm, Cmb, Intel I3 Proc, 500 Gb Hdd, Dvd Multi Drive, 2gb Ddr3, S.No: 312ae185275	28,700.00	
Voltas 2 Ton Spilit Ac With 5kva Stabilizer	1,30,600.00	
Voltas 2 Ton Split Ac With 5kva Stabilizer	1,21,400.00	
Voltas 2 Ton Split Ac Silver With 5kva Stabilizer	73,980.00	
Powercom 5 Kva Online Ups System With 15-20 Min Backup Batteries Rack	61,950.00	
Digital Ic Trainer Kit Without Enclosure	66,000.00	

Lock Screen-High Gain 1.OPTOMA PROJECTOR ES-550 2.6X4 Insta Model 3.Ceiling Mount Kit with VGA Cable	32,000.00	
NEC M230 Projector with 15 Mts VGA Cable, AV Cable, Ceiling Kit, 6x8 Wall mount Screen, USB Cable with female pin and USB Printer cable	1,61,856.00	

EC:

16 Bit Microprocessor,Microcontroller,Elevator, Alarm,Model train	1,98,844	SVCE
FPGA Kit -Corel Technologies	2,49,375	
Matlab- Corel Technologies	91,140	
Matlab- Corel Technologies-simulation Package	29,269	
Computers	2,26,800	
DSP Trainer Kit -	1,51,200	
SPICE - Trident Tech Lab	3,00,000	
UPS-3KVA-APC make	36,000	
Optical power meter& MW Components	72,075	
Projectors+ Screen +Mount(Smart Class Room)	36,867	
16 Bit Microprocessor,Microcontroller,stepper motor	45,738	
TMS Proccesor 5416 with CCS-Prosol	38,850	
CRO,FG,Digital Multimeter, Dual Power Supply	1,33,650	
Network Analyser Calibration Kit-Scientech	67,920	
Network Analyser Calibration Kit-Agilent	1,15,404	
UPS-5KVA&1KVA	1,01,588	
Voltmeter&Ammeter	96,433	
Voltmeter&Ammeter	92,618	
UPS-3KVA	40,000	
UPS-5KVA	67,200	
LCD Projector	36,640	
Projector +Smart board +celling Kit	84,329	
Computers - 6,75,000/-	6,75,000	

EE:

Modernization of Power Electronics and Drives laboratory especially special machine drives	Rs 9 Lakhs	AICTE – MODROBS
Augmentation of number of computers with upgraded configuration	Rs 4.72 Lakhs	SVCE
Incorporation of state of the art application softwares	Rs 9.8 Lakhs	

Pspice – 5 user license Labview – 30 user license PSCAD – 25 user license ETAP – 5 user license		

IT:

Ups	3,600	SVCE
Benq Projector	33,050	
Projector	36,640	
Server 2 Nos	1,31,355	
Desktop Pc 33nos	8,62,785	
Dsp Starter Kit	15,110	
Digital Trainer Board	3,385	
Cro 2 Nos	33,440	
Dsp Starter Kit	32,500	
Pic Microcontroller Board 4nos	14,000	
Function Generator 2nos	13,110	
Fibre Optic Communication Trainer	22,500	
Laser Diode And Glass Fiber Optic Trainer 1no	32,174	
Apd Module	20,249	
Digital Multi Meter	3,375	
Fibre Optic Power Meter	24,750	
Dsp Processor	22,105	
Fibre Optic Trainer Kit 2no	20,617	
Pic Microcontroller 2nos	13,000	
External Harddisk	7,665	
Pinnacle Pro Capture Card	6,825	
Data Card	1,155	

MR:

INTEL CORE I3	33,100/-	SVCE
HCL ME LAPTOP	28,700	
EB-S9 BUSINESS PROJECTOR	31,500	
OPTIMA PROJECTOR	21,500	
HO PRO330 MT	86,400	
DELL OPTI FLEX	31,500	

ME:

Purchased INVERSE SOLVER SOFTWARE to analyse phase change heat transfer problems	Rs. 1,26,600/-	SVCE
HOT AIR GENERATOR is added to the Engine to carryout the research projects involving preheating of air and fuel	Rs.14,634/-	
A new Single Cylinder Diesel engine is purchased to carryout the research work with bio-fuels	Rs. 37,800/-	
New AVL Indimicro Software with Hardware is added to the Engine Research centre to Carryout the research projects in IC Engines	Rs. 13,44,329/-	
DELL OPTIPLUX 3010DT Intel i3, 3220 3rd Gen Processor, 500GB HDD, intel HD2500 Graphics card, DVD R/W, 18.5 LED monitor, MM kb and mouse	7,50,000/-	
Hot Air oven	68,000/-	
AVL Indimicro 602T with Diesel package Single Cylinder 4 stroke Air Cooled Diesel Engine	12,48,300/-	
Tri-axis Acclerometer Cable	1,78,500/-	

CA:

Purchased 30- Dell Core I3 systems	7,50,000	SVCE
To Facilitate Smart Class Room	83,628	

29. Computer and internet access and training to teachers, non-teaching staff and students

- Department students are given separate login accounts to store their data, whenever necessary, in the department server.
- Laptops are provided at low cost for needy students.
- Department students can buy accounts to access internet at a very low cost.
- The Department staff members have separate accounts to save their data and use internet and intranet any time free of cost.
- The institution has a **12 Mbps** dedicated line for internet and intranet
- A Personal Computer was provided to the faculty members those who are pursuing research work
- All teaching and non-teaching staff has a separate email id with storage.

30. Financial aid to students

Financial aid is given to students on merit, means and merit cum means basis. Our college initiated a scheme from the year 2003-2004 to distribute 5% of the Tuition fee income to students as

1) Full semester Tuition fees scholarship (Based on merit, merit cum means, economic means, sports, NCC)
2) Prizes for first ranks in test and examination.

In addition to this the college has Rs.64 Lakhs as scholarship fund. The interest accrued on the fund is utilized for giving assistance for purchasing books and instruments and awarding medals and prizes. The college also gives away scholarships to students that do outstanding performance in NCC as well as sports.

Odd Semester			
Scholarship	**No.Of Students**		**Amount**
	UG	**PG**	
Merit	30	10	7,92,810
Merit Cum Means	29	5	6,49,174
Economic Means	-	-	-
Book & Instruments	59	12	2,28,000
Sports	10	-	2,63,750
NCC	3	-	65,610
Total	**131**	**27**	**19,99,344**

Even Semester

Scholarship	**No.Of Students**		**Amount**
	UG	**PG**	
Merit	30	9	7,68,545
Merit Cum Means	20	6	5,12,311
Economic Means	25	8	14,42,500
Book & Instruments	16	6	66,000
Sports	10	-	3,21,250
NCC	3	-	20,000
Total	**104**	**29**	**31,30,606**

31. Activities and support from the Alumni Association

The alumni association conducts an annual meet, during which a whole day is scheduled with programmes for the alumni. Each attendee is awarded with a memento on the day. The Alumni association has constituted an award, "Budding Bright Engineering Award", for II and III yr students of all departments. The list of winners is given below.

Sl. No.	Name Of The Student	Department	Amount (Rs.)
1	Kunal K Davey	B.E. Automobile	2500.00
2	Vg Umeash	B.E. Automobile	2500.00
3	P.Ranitha	B.Tech Bio-Tech	2500.00
4	U.Vijayalakshmi	B.Tech Bio-Tech	2500.00
5	K.Paul Rajan	B.Tech Chemical	2500.00
6	M Naveen	B.Tech Chemical	2500.00
7	N.Kannan	B.E Civil	2500.00
8	T.Geetha	B.E Civil	2500.00
9	R.Aravindhan	B.E. CSE	2500.00
10	M.Valli	B.E. CSE	2500.00
11	P Supraja	B.E. ECE	2500.00
12	K Soundarya	B.E. ECE	2500.00
13	R Gandhirajan	B.E. EEE	2500.00
14	K Ragavi	B.E. EEE	2500.00
15	P Aakash Kumar	B.Tech IT	2500.00
16	K Sathish Kumar	B.Tech IT	2500.00
17	E Saravanan	B.E. Marine	2500.00
18	D Balasubramaniyan	B.E. Marine	2500.00
19	R Badrinarayanan	B.E. Mechanical	2500.00
20	R Rakesh	B.E. Mechanical	2500.00

32. Activities and support from the Parent-Teacher Association – N/A

33. Health services

Medical Centre of our college is having 6 beds. A doctor and a nurse are available in the campus assissted by a 24hr ambulance. Laboratory for blood investigations and ECG are also available. Students are treated for common ailments and minor injuries. Employees are also availing the facility of medical centre services. Nearest Multi Speciality hospital is in Porur, Chennai at a distance of approximately 20 km from the college and is connected by a national highway. College canteen and hostel mess are inspected regularly and maintained to meet the standards prescribed by

Anna University and Health Department. The medical centre has a dedicated ambulance service that is available 24x7.

34. Performance in sports activities

Students of our college are trained in various sports, both indoor and outdoor and track and field events. They are trained in team and individual events. The management supports and encourage such students to take part in various sport events including Tamilnadu Inter Engineering Sports (TIES), where students from all the engineering colleges of Tamilnadu participate in various sport events. Apart from this our college organizes A C Muthiah Cricket tournament every year. The details of student's participation and awards are given in appendix 3.

35. Incentives to outstanding sports persons

Students displaying outstanding performances are identified and every year they are sports incentives. During the academic year 2013-13, a total of 20 students were identified as Outstanding sports person and a total of Rs. 5,85,000/- was given as incentives as prizes and awards.

36. Student achievements and awards

SVCE students are vibrant and they excel in curricular, co-curricular and extra-curricular activities. Every year a national level technical symposium is conducted by students of every department. Our students also take part in various national and international events and win prizes and awards every year. The details of student achievements are given in appendix 4.

37. Activities of the Guidance and Counselling unit

A batch of 25 students is attached to a faculty advisor, who takes them through the course from the first year. The person maintains close contact with the respective batch and monitors the progress of each student. In addition to the academic performance, the faculty advisor gives guidance and counseling as needed by the students. Once in a month the faculty advisor compulsorily meets the students and updates the students on recent academic details as well as seeks feedback from them regarding academic and other activities. The faculty advisor discusses these points with the authorities concerned and communicates back the remedial action taken.

Class committee (comprising of all the faculty members handling class) meetings are conducted, twice in a semester, to assess the academic performance of every class. All academic related issues are discussed, both from faculty and student end, and suitable corrective action taken.

Once in a semester, a parent's meet is arranged to have an open discussion regarding their ward's progress, as well as for seeking feedback from the parents on specific issues.

Every year, a counsellor training program is organized by the college, where new faculty advisors are trained by an external therapeutic counsellor.

38. Placement services provided to students (appendix 5)

The college has a dedicated Placement cell to take care of all campus placements both in core engineering as well as IT and related fields. Eligible and willing students are encouraged to attend the placement interviews at the end of third year. On completion of the course they join the corresponding employees.

Apart from arranging the campus interviews, the college is dedicated in enhancing the employability of the students by adding soft and technical skills. All the students are groomed from their second year and they undergo placement training and mock placements during their third year. Students from rural background or had languages other than English as medium of instruction during their schooling, are given training on English language, both written and spoken.

The detail list of students got placed is given appendix 5.

39. Development programmes for non-teaching staff

CS:

Ms.S.Kohila	Certificate Program in Developing WPF and ASP.NET Applications of 162 HOUR duration completed in 22.04.2013.	NIIT
Mr.P.Subramanian Mr.S.Rajkumar	One day workshop on UPS maintenance and servicing conducted on 28.06.2013	SVCE

EC:

Mr.P.K.Raju Mr.J.Ravichandran Mr.K.Kaliamurthy Mr.G.Rajendraprasad Mr.V.Umapathy Mr.N.Janarthanan	Two days course on instrument servicing and recent technologies in Electronics and Communication field 2 days	SVCE, Pennalur
Staff Development Programme on windows 8	Staff Development Programme on windows 8	SVCE, Pennalur

EE:

R.Kandasamy/Insructor S.MOORTHY/ Insructor B.Kanagaraj/Instructor S.Bhojarajan /Instructor M.Rajan/Mechanic J.Prakash/Mechanic K.P.Sankar/Mechanic B.Madhavan/Mechanic M.Gopal/Attender	One day Workshop on UPS Maintainance and Servicing. Held on 28-06-2013	Sri Venkateswara College of Engineering

40. Good practices of the institution

Strengths:

- Management is benevolent
- Managed by professionals
- Good academic atmosphere
- Well equipped infrastructure
- Campus free from pollution
- Excellent students
- Dedicated faculty and staff

Weaknesses:

- Constraints due to affiliation

Transaction of Syllabus / Innovations / Best Practices:

In house software development

- The Attendance Utility
- Continuous Assessment Tests
- College Information System (CIS)

- Students that are excelling in academic are encouraged by giving awards, cash prizes, silver medal to rank holders and scholarships. Names of students who receive the outstanding awards are displayed (year-wise)
- Inviting eminent foreign professors for guest lecture to final year students and faculty every year
- Cash prize of
  - Rs. 5,000/- per paper published in international journals
  - Rs. 2,000/- per paper published in national journals
- Sponsoring for PG/Doctoral/Post Doctoral Programme
- Sponsoring students and faculty for attending/presenting in national/international conferences/workshops
- Chair international and national conferences
- Co-sponsoring Conferences
- Maintaining MoU with companies
- Modern buildings and hostels

- All our activities are identified and brought under ISO 9001:2008 standards viz. lesson plan, course delivery plan, conducting laboratory classes, etc.
- All the lab equipments are procured from college budget allocation.
- Separate budget for labs, library, research and development.

The college has formulated **"Outstanding Alumnus Award".** This is awarded to an alumnus every year based on the contributions made by the same to the betterment of society and development of the college.

41. Linkages developed with National/ International, academic/research bodies

Department	MOU - Bodies	Validity
BT	M/s Brainwave Biosolutions Pvt. Ltd	2 Years (From 3.4.2013)
	Kumar Organic Products Ltd	7 Years (From 26.12.2012)
	Innovative Health Care Ltd	7 Years (From 07.12.2012)
	Rajalakshmi Engineering College	2 Years (From 05.11.2012)
	Faculty of Engineering, Science And Built Environment, London South Bank University	6 Years from 2013
CH	Faculty of Engineering, Science And Built Environment, London South Bank University	6 Years from 2013
CS	Cognizant Technology Solutions (CTS) India Private Limited	5 years from 2013
EC	M/s Gemini Communication Limited, Chennai	19/10/2014
EE		
IT	Gemini Communication Limited	Existing
	M/S Cts	Renewed Every 2 Years
	M/S Hcl Technologies	Existing
	M/S Ibm	Existing

42. Action Taken Report on the AQAR of the previous year

The college is committed to enhancing the quality of the institution at all fronts. In this connection, the following actions were taken based on previous year report.

i. Due to various actions and changes made in the continuous assessment tests and regular monitoring of student's performances, the overall result got increased in all the semesters. The percentage of students eligible to obtain degree at the end of year raised by 3%.

ii. Soft and technical skill development programmes were conducted more than in previous year for the pre-final year students.

iii. Many proposals for grant were sent to funding agencies like AICTE, DST, DRDO, Naval research board etc.

iv. More faculty members and non-teaching staff members were to upgrade their qualification and skills through research programmes, Faculty/Staff development programme, certified courses etc.

43. Any other relevant information the institution wishes to add.

BT:

OUTSTANDING PG STUDENT AWARD - Archana S (2010-2012 BATCH).

The "OUTSTANDING BIOTECHNOLOGY STUDENT AWARD" for the academic year 2012-2013 is awarded to Ms.V.Swetha.(2009-2013 Batch) B.Tech Biotechnology.

CH:

IIChE (Indian Institute of Chemical Engineers) Student Chapter of SVCE has been bestowed with the **Ambuja's Best Student Chapter Award – First Prize**, 2012. The award carries a Certificates, Trophy and Cash prize of Rs.15,000/-This was presented during the inaugural day of CHEMCON 2012 at Dr Ambedkar National Institute of Technology Jalandhar on 27 – 29 December 2012.

CE:

Approval received from university for additional intake of 30students

Section C:
Outcomes achieved by the end of the year

Academic Objective:

- **UG:** 93.74% of the final year students cleared the last semester exams out of which 87.32% were eligible to obtain the degree at the end of fourth year.

- **PG:** 99.21% of students in PG courses offered by engineering and technology departments have passed during the final semester examination out of which 97.01% were eligible for degree. In MCA degree, 100% passed in final semester exams out of which 99.44% were eligible for degree.

- **New Courses and admission enhancement:**

PG courses started in major departments like EC and ME. Student intake was increased in UG programme offered by departments like CE, CS, EC, ME.

Employability Objective:

- A total of 601 students, both UG and PG, got placed in various core and IT companies.

Industry Objective:

- A total of 42 visits to industries have been arranged.
- 725 students underwent in-plant training.
- 262 students in 91 batches did their final year project in industries out of total 892 students in 297 batches.
- 8 faculty members underwent industrial training
- 16 workshops were conducted in collaboration with industries and other agencies (apart from the workshops conducted through SVCE alone)
- A total of Rs. 3,68,250/- worth consultancy projects were completed.

The detail summary is given as table below.

Summary - Industrial Objective for the Academic year 2012 - 13

Sl. No	Period	Dept	Year wise student strength		No of Industrial Visits arranged	No of Students undergone for In-plant training	Total no. of Final year Projects		Total no. Industrial projects undergone in the final year		% Students underwent in-plant training	% Students undergone Industrial projects	No. of faculty underwent industrial training	Total No. of Workshop / Conference organized in collaboration with industries	No. of Industrial Consultancy / Testing / Analysis done and the amount earned
			Year	Strength			Batches	Students	Batches	Students					
1	June Dec 2012	AE	I	63	-	-	21	62	07	20	5.5	32.26	-	-	¼ lakhs
			II	77	-	07									
			III	71	01	08									
			IV	62	-	-									
	Jan June 2013		I	63	-	-					5.5		-	-	-
			II	77	01	04									
			III	71	-	11									
			IV	62	-	-									
2	June Dec 2012	BT	I	51	-	-	30	55	05	05	20.39	9.1	-	01	-
			II	53	01	16									
			III	44	01	15									
			IV	55	01	-									
	Jan June 2013		I	51	-	-					13.30		-	01	25,000 + 6600
			II	53	01	16									
			III	44	02	11									
			IV	55	-	-									

3	June Dec 2012	CH	I	105	-	-	30	90	22	66	43.48	73	1	1	-
			II	105	1	-									
			III	99	1	43									
			IV	90	1	7									
	Jan June 2013		I	105	-	-					1		-	-	-
			II	105	1	-									
			III	99	2	-									
			IV	90	-	1									
4	June Dec 2012	CE	I	30	-	-	9	33	4	16	27.8	-	-	-	25,000
			II	36	-	-									
			III	36	1	10									
			IV	33	1	-									
	Jan June 2013		I	30	-	-					6	49	-	-	-
			II	36	1	-									
			III	36	2	2									
			IV	33	-	-									
5	June Dec 2012	CS	I	188	-	-	43	117	1	3	0.03	0.02	2	-	3
			II	147	-	162									
			III	145	-	-									
			IV	117	-	-									
	Jan June 2013		I	188	-	-							-	-	-
			II	147	-	-									
			III	145	-	-									
			IV	117	-	-									

6	June Dec 2012	EC	I	182	-	-	46	122	14	39	13.05	31.96	-	-	-
			II	137	-	37									
			III	141	1	38									
			IV	122	-	1									
	Jan June 2013		I	182	-	-					4.12	31.96	-	1	-
			II	137	-	17									
			III	141	1	7									
			IV	122	1	-									

7	June Dec 2012	EE	I	121	-	-	34	124	7	24	3	19.4	-	2	-
			II	140	1	8									
			III	141	1	8									
			IV	124	2	-									
	Jan June 2013		I	121	-	-					5.3	19.4	-	1	-
			II	140	1	7									
			III	141	2	21									
			IV	124	-	-									
8	June Dec 2012	IT	I	118	-	-	43	119	13	35	13.89	29.14	2	3	-
			II	140	01	02									
			III	131	-	48									
			IV	119	01	2									
	Jan June 2013		I	118	-	-					15.69		3	2	-
			II	140	-	-									
			III	131	02	59									
			IV	119	-	02									

9	June Dec 2012	MR	I	27	-	-	7	30	-	-	-	--	--	1	-
			II	30	-	-									
			III	29	-	-									
			IV	30	-	-									
	Jan June 2013		I	27	-	-					25	-	-	-	-
			II	30	-	-									
			III	29	-	29									
			IV	30	-	-									
10	June Dec 2012	ME	I	124	1	5	33	92	17	46	13.6	-	-	2	1,04,900/ - (17 nos)
			II	147	1	20									
			III	110	1	26									
			IV	116	1	17									
	Jan June 2013		I	124	1	07					11.9	50	-	1	1,81,750/ - (50nos)
			II	147	1	14									
			III	110	1	31									
			IV	116	1	07									
11	June Dec 2012	CA	I	54	-	-	1	48	1	8	-	-	-	-	-
			II	58	1	-									
			III	48	-	-									
	Jan June 2013		I	-	-	-					-	16	-	-	-
			II	54	-	-									
			III	58	-	-									

Research Objective:

- A total of 161 publications have been made by our faculty members in referred national (67) and international (94) journals.

- A total of 7 members were awarded Ph.D degree and 57 members are on roll Ph.D degree.

- A total of Rs. 142.61 lakhs was received from national funding agencies as grant to carry out research projects in the college.

Professional Objective:

- FDP: A total of 16 faculty members attended Faculty development programme on various topics, organized by other institutions. Apart from this, faculty members have participated in more than 150 workshops/seminars etc.

- Supporting staff: At least 3% non teaching staff should undergo training or attend skill development programme every year. In this regard, all technical staffs were given one day training on UPS maintenance and service.

- Management training: As per the objective requirement at least two professors have to be trained per year. This is one objective which requires greater awareness and attention.

- Membership of professional societies: Every new staff member has to become member of at least one society within a year of joining.

- Faculties acquiring higher qualification - A total of 7 members were awarded Ph.D degree by various universities.

Part -D

Detail the plans of the institution for the next year

- To offer interdisciplinary courses in the area of Engineering, Technology and Management.
- To make all PG courses residential by building additional hostels.
- To construct more staff quarters to encourage faculty members to stay in campus and concentrate on research by avoiding time spent in travel by buses, thereby increasing the number of research publications made.
- To extend college transport facilities to more destinations in Chennai, Kancheepuram and Thiruvallur, so that students and faculty travelling to college from that area can be benefited.
- Modernize and update laboratory facilities.
- To construct more classroom blocks with all facilities required for a smart class rooms.
- To secure more funded projects.
- The academic performance of the departments will be strengthened by initiating higher level courses such as M.E/ M.Tech,, MS by Research and Post- Doctoral research training.
- To establish a technology incubator to provide technical support to industries around.
- Fully fledged acquisition of all required equipments for the newly started UG/PG courses
- Supporting faculty members for doing post-doctoral research in reputed premium institutions
- To create at least on centre of excellence in all academic departments.
- Start of new UG/PG courses.
- The objectives formulated have been followed for the last five years. Hence it is planned to revise them from next year, as given below.

Academic Objective:

- To achieve academic excellence by ensuring 85% of pass in first year and increase the same every year by 1% thereafter. The pass percentage of lateral entry students for III semester is to be 40% and the same has to be increased to

50, 65, 80, 90 from IV to VII semesters. The pass percentages so fixed for both the regular and lateral entry students are to be increased by 1% every year from 2013-2014.

Employability Objective:

- Maintaining 90% employment to the eligible students through campus interviews during normal industrial scenario and increasing the employability of our students by 2% every year from 2013-2014 onwards, except during recession periods.

Research Objective:

- The number of publishing quality papers in National (or) International Journal should be equal to 20% of total faculty strength in every year.
- The number of proposal for Research work to various funding agency should be 30% of total faculty strength in every year.
- Receiving at least one externally funded project by every eligible department every year.
- Attending at least one research seminar / symposia / workshop by every faculty member in every year.
- Mentoring at least two graduate students from each department to do research and subsequently to publish at least two papers in journals every year.

Industrial Objective:

- To motivate students to undertake in-plant training in industries, 10% of students shall undergo In-plant training in every semester.
- 30% of students shall do industrial relevant final year projects work.
- 5% of faculty members shall undergo industrial training at least once in every year.
- Organize once in a year workshop / seminar in collaboration with industry by each department.
- The College shall generate a minimum of Rs.1, 00,000 per year from industrial consultancy work.
- Every department shall arrange 3 Industrial Visit per year.

Professional Objective:

- At least 3% of faculty shall acquire higher qualification every year.
- All faculties shall participate in at least one FDP/seminar/workshop in every two years.
- The College shall organize at least 5 National Conferences per year and one International Conference in every 3 years.
- Upgrade technical skills of one staff per department per year to different training programs.
- 10% of faculty members shall receive training in leadership skill per year.

Head of the Institution