

SRI LAKSHMI AMMAAL ENGINEERING COLLEGE

(Affiliated to Anna University, Chennai & Approved by AICTE, New Delhi)



**Submission of
Annual Quality Assurance Report (AQAR)
2013-14**

by

Internal Quality Assurance Cell (IQAC)

**Submitted to
National Assessment & Accreditation Council
Bangalore**

June, 2014

**THE ANNUAL QUALITY ASSURANCE REPORT (AQAR) OF THE
INTERNAL QUALITY ASSURANCE CELL (IQAC)**

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ANNUAL QUALITY ASSURANCE REPORT (AQAR)

Part A

Compliance on Plan of Action-2013-14:

-) Beautifying the campus by appropriate *Gardening Works* done periodically.
-) Installation of *modernized AV system in the auditorium*.
-) Organized an educational awareness workshop “*Scaling the Peak*” for the Higher Secondary School Students by the Government School Teachers on 8th Dec. 2013.
-) Celebrated “*Thamizhar Thiruvizha*” on 9th Jan. 2014 on the eve of Pongal by conducting various events for students & distribute the prizes.
-) An “*Environmental Awareness Rally*” was organized by the ‘Go Green Club’ of SLAEC on 11th Jan. 2014 to create awareness among the people to celebrate ‘Bhogi’ in an eco-friendly manner.
-) Inaugural function was organized for “*Launching of SLAEC Scholarships*” by addressing Headmasters from various Schools around North & South Zone of Chennai on 19th Feb. 2014.
-) The “*Hands Together Association*”- a social welfare activities club celebrated Women’s Day on 7th March 2014 by organizing events and activities for women students and staff and also donating clothes, School Kits to the under privileged children.
-) The *Summer School Certificate Courses* were conducted during April – May 2014 for Higher Secondary Students on the basics of Engineering and Technology in their interested domains.
-) An “*International Conference on Applied Research and Engineering*” iCARE14 was conducted during May 2014 with the participation of more than 200 delegates from India and abroad.
-) The “*Engineer’s Day*” to be celebrated by conducting technical quiz, project expo, debate, etc., for the students and prizes to be distributed for the winners.
-) Follow up actions with revised plans in *academics*.
-) *Remedial Classes* were conducted for slow learners across all disciplines.

-) *Digital Notice Board* installed in the College lobby displaying day to day events, circulars, greetings on birthdays of Students and birthdays and wedding days of the staff.
-) Staff was motivated to attend *FDPs* on various aspects including technical & non-technical topics.

Part B

1. Activities Reflecting the Goals & Objectives of the Institution:

-) To initiate students in higher learning, up to research level, SLAEC has provided value based career oriented quality education in a liberal atmosphere and shaped them for leadership, entrepreneurship and citizenship roles.
-) To exemplify this standard with the help of committed and competent staff, the college ensured need-based curriculum, innovative methodology and objective evaluation.
-) To create self-confidence among the students, SLAEC conducted periodical training programmes both on technical skills and soft skills by eminent trainers.
-) Activities like these are made known to the various stakeholders through prospectus, website, student orientation meeting, parent teacher meeting, staff meeting, and the mission statement on display in various parts of the campus.

2. New Academic Programmes Initiated:

-) Summer and Winter School Certificate Programmes have been introduced.

3. Innovations in Economy Support:

-) *“Launching of SLAEC Scholarships-2014”* for the less privileged candidates to get high quality technical education at affordable budget.

4. Examination Reforms Implemented:

-) In the Internal Assessments and Model Examinations an aggregate mark for the passing minimum for UG courses from 50% to 60% has been adhered to, and it was implemented in Nov. 2013, as recommended by the AAAC.
-) The summary of Internal Assessments, University Marks, and periodical attendance percentage are sent to the Parents to improve the performance of the students.
-) Result Analysis is made based on the University Results of each semester and meeting

was conducted by the AAAC (Academic and Administrative Audit Committee) with all the staff regarding the result and the measures to be taken to improve it.

5. Student Welfare Activities – Student Centric Approach:

- The Inaugural Function of all the Associations were held on different days chaired by Professionals, Technocrats, Entrepreneurs and Experts from various fields.
- Workshops, Guest Lectures and Seminars on Technical domains and Personality Development programmes were conducted periodically in all disciplines.
- Students were taken on Industrial Visits to empower their knowledge.
- Students were given opportunity to exhibit their talents in Newspapers & SLAEC Magazine.
- The campaign on ‘Plastic Free Campus’ was organized by the National Service Scheme with the participation of entire student community of our College as a mark of celebration of Inception of our College.
- Notes for various subjects were uploaded in college website for the students’ reference.
- Students were encouraged to indulge in community services too.

6. Technical Events Conducted:

Workshops:

- A one day workshop on “*Research Methodologies*” was organized on 19/07/2013 by the Department of Electronics and Communication Engineering especially for the PG students. The morning session was accompanied by Dr. R. M. Suresh, Principal of Muthukumaram Institute of Engineering & Technology; the afternoon session was presented by Dr. Jagannathan, HoD of Biomedical Engineering, SMKFIT.
- The Department of Electrical and Electronics Engineering organized a workshop on “*Industrial Automation*” on 15/02/2014. The resource person was Mr. Rajapandian, AM from Prolific Systems & Technology Pvt. Ltd., along with his team.
- A one day workshop was conducted on “*Industrial Applications of Embedded Systems*” on 12/03/2014 by the Department of ECE presented by Mr. T. Vamsi Krishna, Manager, Campus Relations, ProCAE, Chennai.



Resource Person Mr. T. Vamsikrishna giving demo on Controller.

- A one day workshop was organized by the Department of Computer Science Engineering on **“Research Directions in Virtualization and Cloud Computing”** on 24/03/14. The guest lecturers were Mr. A. N. Anil Kumar, Senior PM and Mrs. M. JayanthiKarthikeyan, GM, JPA Solutions.



Chief Guest Mr. A. N. Anil Kumar addressing the CSE Students.

- A one day workshop on **“Automotive Technology”** was conducted by the Department of Mechanical Engineering on 28/03/2014, by a team of experts from Goodwin Motors, Chennai. The purpose of the workshop was to impart practical knowledge on the operation of various IC engines.
- A workshop was organized by the Department of Civil Engineering on **“Construction, Planning, Techniques and Management”** on 04/04/2014. The resource person was Mr. J. Deepak, Quality Control Engineer, AI Fara General Constructing Company, Dubai.
- The Department of Computer Science and Engineering organized a one day International Workshop on **“Information Retrieval and its Application”** on 23/05/2014. The participants from various engineering colleges attended the workshop.

Guest Lectures:

- A Guest Lecture was arranged by the Department of CSE on 3rd January 2014, on the topic **“Innovation and Knowledge Management”** with special emphasis on its importance in the arena of Big Data and Cloud Computing. Dr. K. Subramanian, Professor and Director, Advanced Centre for Information and Innovative Learning, IGNOU, was the resource person of the day.
- Department of Electronics and Communication Engineering organized a Guest Lecture on **“Embedded Systems”** on 7th January 2014. The resource person was Mr. S. Ganesh Raja, AP, from SMK Fomra Institute of Technology. The session described the applications of Embedded System, features & functionalities of microcontroller, demonstration of train controller, traffic indication etc. It was very effective and interactive.
- A Guest Lecture on **“SAE Membership and activities”** was organized by the Mechanical Engineering Department on 8th January 2014. Our resource person was Dr. D. Murugantham, Professor, the Vice Chairman of SAE, who created awareness among the students about SAE membership and its various functions.
- A Guest Lecture was conducted by the Department of CSE on the topic **“J2EE”** on the 23rd January 2014. The resource person Mr. K. Kishore, the National Technical Head of HCL Learning Ltd., Noida, updated the students with innovative ideas on its recent applications.
- A Guest Lecture on **“Recent Trends on Electrical Drives”** was organized by the EEE Department on 28th January 2014. Our resource person was Mr. Stuart Allan, Senior Lecturer, Co Learning Leader - Engineering Technology Group, Education Development leader, Architecture Building

and Engineering of OTAGO Polytechnic, New Zealand. The resource person along with the faculties from OTAGO Polytechnic interacted with the students about the scope in their career.



Professors from OTAGO, New Zealand with other faculty inaugurating the Guest Lecture.

- A Guest Lecture on “**Industrial Automation**” was organized by the Department of Mechanical Engineering on 21st February 2014, by a team of experts from Axis Global Automation, Chennai.
- A Guest Lecture was organized by the Department of Science and Humanities on the topic “**Super Conductivity– A Challenging Mystery**” on 6th March 2014. Dr. V. Anbarasu, Assistant Professor, Department of Physics, SRM University, Chennai, was the resource person, who enlightened the students on the various types of superconductors and their applications.



Dr. P. Gopikrishna, Professor and HoD, S & H, honouring the Chief Guest Dr. V. Anbarasu.

- A Guest Lecture on ***“The Growth of Power Sector in India and its Conventional Load”*** was organized by the Department of EEE on 15th March 2014. The resource person was Mr. Saravanan, A.E, from TNEB, Chennai. The resource person in addition to explaining about the growth of power sector in India, also encouraged the students to take up jobs in power sector areas. The students were also made aware of the various opportunities in that field.
- A Guest Lecture was arranged by the Department of Civil Engineering on the topic ***“Green Building and Green Building Materials”*** on 15th March 2014. The lecture was given by Mr.P. Loganathan, the Assistant Manager (Planning of Contracts), from GVR Infra Projects Limited, with a view to enlighten the students on the various eco - friendly building materials and designs.
- A Guest Lecture on ***“Nano Plastic of Multi Thin Layer”*** was organized by the Department of Mechanical Engineering on 18th March 2014. Dr. G. Balakrishnan, Professor, from Bharath University was the eminent person to deliver the lecture and enhance the students’ knowledge on the topic.

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- A Guest Lecture was conducted on “*Groundwater Hydrology*” by the Department of Civil Engineering on March 24th 2014. Dr. K. S. Santhanam, The Senior Scientist of the Centre for Water Research, Sathyabama University, delivered the lecture and enhanced the students’ knowledge on the topic.
- A Guest Lecture was organized by the Civil Department on “*Phase Relationship and Laboratory Permeability Test*” on 29th March 2014. The resource person was Dr. K. E. A. Palaniyappan, Dean of Engineering, VelTech.

Inauguration of Department Associations:

- The Department of *Electronics and Communication Engineering* inaugurated the association “*Innobeez*” by Mr. T. Vamsi Krishna, Manager, Campus Relations, ProCAE, Chennai on 29th July 2013. He addressed the students and gave a presentation on “*Recent trends in Embedded Systems*”. Students got ideas for their project works.
- The Department of *Electrical and Electronics Engineering* inaugurated the association “*SPEED’ 13*” by Mr. Mohamed Sultan, CEO of Chennai Power Desalination and Training Institute on 1st August 2013. He created awareness on “*Power Extraction and Utilization*” among the students.
- The Department of Computer Science and Engineering inaugurated the association “*SPYSYS V’13.0*” by Mr. C. Srinath, System Engineer, TCS, Chennai, on 2nd August 2013. He presented “*Views of Cloud Computing*” for the students.
- The Department of *Civil Engineering* inaugurated the association “*DADO’13*” on 8th August 2013 in the presence of Chief Guest, Mr. Mahesh Radhakrishnan, Founder & Principal of Madras Office for Architects and Designers. Students gained knowledge on the “*Foundation Principles*” presented by the Chief Guest.
- “*Enthira Vizha*” the association of Department of Mechanical Engineering was inaugurated by Mr. Sarath Babu & Mr. Ezhumalai, Founder, CEO of Food King Pvt. Ltd., on 6th August 2013.

Industrial Visits:

- The II and III year Civil Engineering students went on an industrial visit on 21st January 2014 to Sathanur Dam, to observe and understand the nuances of dam construction.



Civil Engineering Students at Sathanur Dam.

- The students of Final year and II year of the Dept. of EEE went on an industrial visit to “**North Chennai Thermal Power Station**” on 4th February 2014. The students gained thorough knowledge about generation, transmission and distribution of power.
- The III year students of ECE Department went on an Industrial Visit on 21st February 2014. They visited **ETDC- a Govt. organization** located at Perungudi, Chennai. It is a product testing industry, evaluating the performance of different products before coming into the market, like laptops, bullet gears and sound systems.
- The students of III year EEE and I year M.E (PED) went on an industrial visit to “**Neyveli Lignite Corporation**” on 01st March 2014.
- The students of SLAEC, II year Mechanical Engineering went on an industrial visit to “**North Chennai Thermal Power Station**” on 10th March 2014.
- The students of final year and III year Mechanical Engineering went on an industrial visit to “**North Chennai Thermal Power Station**” on 11th March 2014.
- The Students of II year ECE visited “**Neyveli Lignite Corporation Limited**”, Neyveli on 28th March 2014. Huge machineries of manual, semi - automatic and fully automatic designs controlled by microprocessors and controllers helped the students in understanding the practical applications of

process of extracting power from Coal by the mining industry, Mine 1 sector. In addition to that they visited the sector, power plant1 so as to know how power is being generated and distributed to various power stations. This visit helped the students to compare their theoretical concepts with practical consequences of control systems, transmission lines & wave guides.

Residential Camp/ Field Trip Participation:



Civil Engineering Students at Survey Camp.

- The students of III year Civil Engineering went for the Survey Camp, to the hill station *Yercaud*, in Salem District, in February and March along with their staff members, as per the norms under the Anna University Regulations. Students learnt how to survey in hilly area, lake and valley roads.
- The students of IV Year EEE went to *Ennore Power Station* on 19th July 2013.
- The students of III Year EEE went to *NLC* on 21st August 2013.

Technical Achievements of Students in National Level Symposiums:

Students were motivated to participate in both Intra and Inter – National Symposiums, Workshops and Paper Presentations. The following were the list of achievers in various technical events.

S.No.	Name	Year/ Dept	Event	Prize
1	M.Venkatesh, V.P. Vinoth	I Civil	Quiz Bee	II
2	M. Saravanan, P. Sudhakar& team	I Mech	Paper Presentation	Participation
3	V. P. Saravanan, N. Rajkumar& team	I Civil	Paper Presentation	Participation
4	V. P. Saravanan, B. Subash	I Civil	60 Sec variety	I
5	K. Naresh	IV EEE	Circuit Debugging	I

6	V. Dilip Kumar	IV EEE	Google Guru	I
7	K. Manivannan	IV EEE	Components Tracking	I
8	K. Vinoth Kumar	IV EEE	Circuit Debugging	I
9	R. Harikrishnan	III EEE	Circuit Debugging	I
10	K. Sushmitha, P. Surya & team	III EEE	Technical Debate	I
11	K. Madan Babu, A.M. Sadham Hussan	II EEE	Circuit Debugging	II
12	P. Vignesh, R. Srinivasan	II EEE	Circuit Debugging	III
13	R.S.S. Vijaya Niruban & team	III Civil	Jakart	I
14	M. Saravanan	III Civil	CADD drawing	I
15	R.Selvam & team	III Civil	Kurukshetra	Semifinal
16	R. Balaji & team	II Civil	Kurukshetra	Semifinal
17	K. Prabakaran, M. Sakthivel	II Mech	Machinist	Participation
18	K. Prabakaran, M. Sakthivel	II Mech	Water Rocketry	Participation
19	B. Venkatesh & team	II Mech	Tech Quiz	III
20	P. Benson raj, B. Venkatesh	II Mech	Tech Quiz	II
21	D. Aravindh, N. Siva, V. Rajaganapathy	III Mech	Innovate	I
22	S. Srinivasan	III Mech	Surprise	I
23	Veeramani	II Mech	Tech Quiz	I
24	C. Sharath Kumar, V. Santhosh Kumar	III ECE	Paper Presentation	III
25	S. Saranya & team	III ECE	Tech Quiz	I
26	J. Jeyapradeep	II ECE	Technical Debate, On Spot	I
27	Revathy & team	II ECE	Tech Quiz	III
28	Ashok, C. R. Vinoth Kumar, A.Sundar Raj	IV EEE	Circuit Debugging	Participation
29	Naveen Raj, Vignesh	III EEE	Technical Quiz	Participation
30	J. Cyril Magimai raj & team	IV ECE	Circuitrix, Triple-T, Freeze Quiz, Wizard	II
31	S. SoundarRajan	IV ECE	Mock Placements	I
32	M. Chandra Prakash, R. Anand Raj, V. Nirmal Kumar	IV ECE	Mathomania, Circuitrix	Participation
33	R. Subbhalakshmi	IV CSE	Paper Presentation	II
34	S.Thangarajesh	III CSE	Paper Presentation	Participation

7. New Collaborative Research Programmes:

Our College has taken initiative to enrich the knowledge of students.

-) SLAEC collaborated with various industries by signing **MoUs** which provides training for the students on their respective domain.



MoU of Dept. of CSE with EAFT Technologies Pvt. Ltd, Bangalore.

-) The Department of Electronics and Communication Engineering collaborated with **Bharat Sanchar Nigam Limited** by the sponsorship of AICTE. It is so called as “**Employability Enhancement Training Program**” (EETP). This is categorized under the course of study named *Silver, Gold & Platinum* which included the curricula of the communication subjects, for certification. This program was initiated from 2013. Each course is followed by an examination, rewarded by a graded certificate. As such, the final year students were certified with *Gold EETP*. Also, the third year students completed the course of *Silver EETP*.
-) **On-the -Job training** is undertaken by pre-final year UG students (Business Administration) during the summer vacation.

8. Academic Follow up Actions:

Orientation to Students:

) An **Orientation Programme** was conducted for all the 1st year UG and PG students on Curriculum, Examination, Scholarship and Student Career Planning on 5th August 2013.

Scholarships:

- A total of Rs. 5, 67,700/- was granted to 84SC students under Educational Scholarship.
- A total of Rs. 6, 04,575/- was granted to 213BC students under Educational Scholarship.
- A total of Rs. 4, 84,830/- was granted to 109 MBC students under Educational Scholarship.

Criteria for Financial Aid to Students:

The scholarships were granted on different criteria like Sports, Merit, and especially for girls. They are:

❖ **SLAEC – VIJAYA JOTHI SCHOLARSHIP:**

Full Tuition Fee Waiver for the students scoring more than 1100/1200 in Higher Secondary Examinations.

❖ **SLAEC – VIDHYA JOTHI SCHOLARSHIP:**

Fifty Percent Tuition Fee Waiver for the students scoring more than 1000/1200 in Higher Secondary Examinations.

❖ **SLAEC – KALPANA CHAWLA SCHOLARSHIP:**

Fifty Percent Tuition Fee Waiver for the **Girl Students** scoring more than 900/1200 in Higher Secondary Examinations.

❖ **SLAEC – STEPHEN HAWKING SCHOLARSHIP:**

Fifty Percent Tuition Fee Waiver for **Differently Abled Students**.

❖ **SLAEC – SACHIN TENDULKAR SCHOLARSHIP:**

100 % Tuition Fee Waiver for the **State Level Sports Persons**;

50 % Tuition Fee Waiver for the **District Level Sports Persons**.

Moreover, Students were facilitated with *First Graduate Concession* from Anna University as well.

Computerization of Examination Results:

- The Internal Assessments and Model Examinations were conducted periodically.

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- The Questions were set and reviewed by AAAC.
- The Mark Sheets were given to the exam cell and uploaded in the SLAEC website.
- The Semester Examinations were processed as per the norms of Anna University.
- The Result Analysis was done and necessary actions were taken by conducting Staff meeting chaired by the Principal.

Student Feedback:

- Class Committee Meetings were conducted for UG and PG students of every department. The meeting focused on students' feedback on Curriculum, Co-Curricular activities and others. Follow-up action was taken based on the above.
- The performance record of students which contains Internal Assessment Marks, University Marks and Percentage of Attendance is sent to the parents every month.
- The parents were intimated if the students had very low attendance percentage.

Activities and Support from the Teacher- Parent Association:

- Parents - Teacher Association meeting for the Odd semester was held on **02.09.2013**. Parents visited the college and interacted with the teachers in their respective departments and discussed their ward's progress in studies. A total of **438** parents participated in the meeting.
- The meeting for the even semester was conducted by the college on **05.02.2014** inviting parents to have an interaction with the Principal and the teachers. A total of **621** parents participated in the meeting.

Activities and Support from the Alumni Association:

SLAEC has an active Alumni Association which contributes towards the development of the institution by,



Mr. Srinivasan from Axis Global Automation, an Alumni addressing the students of SLAEC.

- Guest lectures by Alumni in their chosen field of specialization.
- Advising and offering tips to juniors for competitive exams and career guidance.
- Facilitating the present students in their internship and research projects.
- Sponsoring distinguished alumni lecture series.
- Rewards and Awards by the Alumnae to the course toppers.
- Donating used books to the department libraries.

Placement Services Provided to Students:

Through the *On Campus Placement Drive*, Eighty eight students from various disciplines have been placed in the following companies.

1. ACG Prorelysys Pvt. Ltd., Hyderabad.
2. Bhagyanagar Tele Infra System Pvt. Ltd., Secunderabad.
3. DATA 64, Pune.
4. Global Steps Pvt. Ltd., Delhi.
5. Global Vivus Pvt. Ltd., Australia.
6. KMA Power Tools Pvt. Ltd., Delhi.
7. L & T – Integrated Engineering Services, Chennai.



Written test round – Global Steps Pvt. Ltd.

Linkages Developed with National/International, Academic/Research Bodies:

The Industry – Institution Interaction are being practiced by signing MoUs. There were,

- NEXG Tech Wireless Systems Pvt. Ltd., Chennai.
- Prolific Systems and Technologies Pvt. Ltd., Bangalore.
- Digiterati Pvt. Ltd., Chennai.
- HCL Pvt. Ltd., Chennai.
- Foreview Technologies Pvt. Ltd., Chennai.
- Axis Global Automation, Chennai.
- PantechProED Pvt. Ltd., Hyderabad.
- BSNL, Chennai.
- Technocraft Automation Pvt. Ltd., Chennai.
- Zastra Technologies, Chennai.
- VI Microsystems Pvt. Ltd., Chennai.
- Diagonal CADD, Chennai.

9. Sports Corner:

Tournaments:

- The SLAEC Cricket Team, comprising students from various departments participated and **won** the “*Reddy’s Inter-Engineering College Cricket Tournament*” by 49 runs on 20th March 2014, among 14 colleges, conducted by the Reddy Cricket Academy.
- The **Chess Tournament** won by girls’ team conducted in SLAEC.
- S. Prakash of IV year Mechanical Engineering, was honored with first place as “*Mr. KANCHEE2014*”, District Body Building Championship held on 26th January 2014, organized by Kanchipuram District Amateur Body Building Association.



S. Prakash of final year, Mechanical Engineering won the inter district Body Building Championship and was crowned as – Mr. KANCHEE2014.

- J. Dinesh of II year, Department of Mechanical Engineering, participated in cricket in **CHEMSPORTS2013** held at Chengalpattu Medical College, Chennai, organized by the Sports Association.

- An *Intra College Sports Meet* was organized by the Department of Physical Education by conducting various sports events for boys and girls of all departments during March 2014. The prizes were distributed for the Events, to the Winners & Runners of SLAEC. In addition to that, the Overall Championship was awarded to The Department of Civil Engineering – Boys; The Department of Electronics & Communication Engineering – Girls.

Incentives to Outstanding Sports Person:

Management sanctions cash awards and prizes to the outstanding student every year.

10. Community Services:

-) SLAEC arranged *Blood donation, Medical services*, at places of human congregation.
-) Interaction with different Govt., NGO, charity institution etc., for the benefit of the differently-abled ones.
-) Students are motivated in community activities like NCC, NSS, Physical education YRC, Social Service League etc. to impart them in social responsibilities.
-) SLAEC organized *“Scaling the Peak”* – an Educational Awareness Workshop by the Government School Teachers on 08/12/2013, for the higher secondary students to guide them to score high marks in the Board Examinations. The program was inaugurated by Mr. P. V. Ramesh, GM of Aura Mira Energy Company Pvt. Ltd., Chennai and Mr. G. Varatharajan, the Chief Safety Manager of Johnson Lifts Pvt. Ltd., Chennai. Devoted and inspiring teachers from various Higher Secondary schools in Chennai were bestowed upon with the *“SLAEC-Dr. Radhakrishnan Award”*.



Dr. R. VenkateshBabu, Principal bestowing the “SLAEC-Dr. Radhakrishnan Award” on Dr. N. Vijayan, Founder and Principal of Zion Group of Schools & Alwin Memorial Public School, Chennai.

-) In order to know the importance of agriculture, the students were motivated to celebrate “*ThamizharThiruvizha*” on 09/01/2014. Various competitions like Oratorical, Essay Writing, Poetry, Debate, Rangoli, and Fancy Dress on Ethnic Wear were conducted and prizes were given for the winners. The Chief Guest was Mr. C. Veeramani, Department of Tamil, Vivekananda Arts & Science College, Chennai.
-) An “*Environmental Awareness Rally*” was organized by the ‘*Go Green Club*’ of SLAEC, on 11/01/2014. The rally was flagged off by Ms. D. C. Lakshmi, IPS, and South Zone Traffic Head.
-) ‘*Women Welfare Committee*’ celebrated Women’s Day on 07/03/2014 by conducting entertaining events and cultural.
-) On Women’s Day, ‘*Hands Together Association*’ – a social welfare activity club of SLAEC donated Clothes, School Kits for under privileged children. The Inspector of Police, Ms. K. Indirani, was the Chief Guest of the day.
-) Also, on 22/08/2014 our college staff donated Rs. 13500/- to a two months old baby who has to undergo a heart surgery.

-)] About 75 students from various departments of SLAEC are members of NSS and YRC. They act as volunteers for blood donation camps, planting of trees and other social activities.



A Section of the Rally in Marina Beach, Chennai. Chief Guest, Inspector of Police, Ms. K. Indirani distributing the 'School Kits'

11. Initiative towards Faculty Development Programmes:

Improving the quality of faculty by conducting need-based training programmes has been initiated. The following is the brief information about the same:

-)] A special training programme was arranged by IQAC on 01/07/2013 exclusively for the Non-Teaching Staff on 'Interpersonal Relationships & Office Automation'. They gained sufficient knowledge on the theme of the programme.
-)] An exclusive training programme for New Teachers was conducted by IQAC on 03/07/2013. The training was focused on "Enhancement of Internal Quality". Prominent trainers of this region have conducted the programme and the participants were very much delighted to learn the nuances of effective teaching and improving the quality of the classroom management.
-)] Ms. V. Sumathi of EEE Department attended FDP on "Performance Improvement of BLDC Motor using Fuzzy Logic Controller" in Tagore Engineering College on 13/03/2014 & 14/03/2014.
-)] Ms. J. Josephine Hope Hailma, Ms. B. Sheryl Nivya, Mr. R. Rajasekaran and Mr. V. Vinoth Babu of EEE Department attended FDP on "Electronic Devices & Circuits" in G.K.M. Engineering College for one week from 16/04/2014 to 22/04/2014.

-) Ms. J. Padma Priya and Ms. S. Vigneshwari of EEE Department attended FDP on “*Electromagnetic Theory*” in Tagore Engineering College from 23/04/2014 to 30/04/2014.
-) Mr. B.S ManikandaPrabu and Mr. S.Kirupakaranof EEE Department attended FDP on “*Electrical machines II*” in Agni College of Technology, Chennai on 19/05/2014.
-) Mr. M. Dinesh Kumar of Civil Engineering Department attended FDP on “*Mechanics of Solids*” in Agni College of Technology, Chennai from 16/06/2014 to 22/06/2014.
-) Senior Teachers with more than 10 years of experience also were given training by IQAC with the help of the most senior trainers on “*Educational Ethics - Concept and Model Building*” on 01/07/2013.

Research Activities:

The Staff of SLAEC presented research papers in various colleges and published research papers in many National and International journals and under different domains and a few are listed below.

- **Dr. R. VenkateshBabu**, Principal, SLAEC, published a paper on “**Effect of oxygen partial pressure on microstructural and optical properties of titanium oxide thin films prepared by pulsed laser deposition**” in Elsevier, Material Research Bulletin, Nov 2013.
- **Dr. R. VenkateshBabu**, Principal, SLAEC, published a paper on “**Growth of highly oriented - and -Al₂O₃ thin films by pulsed laser deposition**” in Elsevier, Optics & Laser Technology.
- **Dr. R. VenkateshBabu**, Principal, SLAEC, published a paper on “**Parameter Setting for Facing EN8 steel with TNMG Insert**” in American International Journal of Research in Science, Technology, Engineering & Mathematics.
- **Mr. A. Kamal**, HoD of EEE Department presented a paper titled “**Optimal Co-ordination of over Current Relays**” in the “International Conference on Emerging Trends in Engineering & Technology”, organized by Travancore Engineering College on 31st March 2014.
- **Mr. D. Purushothaman** of EEE Department presented a paper titled “**ACWM Based Multilevel Output ZVS DC-DC Converter**” in the International Conference on Electrical, Communication and Computing organized by Tagore Engineering College on 13th and 14th March 2014.
- **Mr. K. Sakthivel** of EEE Department published a paper titled “**An Improved T-Z Source Inverter for Renewable Energy Application**” in the journal IOSR-JEEE, March 2014.

- **Mr.S.Dinakarrajof** EEE Department published a paper titled “*Asymmetric Cascaded Multilevel Inverter Using Sub Multilevel Cell*” in the journal IJETAE, Feb. 2014.
- **Mr.S.Dinakarrajof** EEE Department presented a paper in the International Conference on “*Electrical, Communication and Computing*” organized by Tagore Engineering college on 13th and 14th March 2014.
- **Mr.R.Rajasekaran** and **Mr. K.Sakthivel** of EEE Department attended a one week workshop on “*Research Articles Writings and Publications*” organized by Bharath University in Dec. 2013.
- **Mr. M. Ramamoorthy**, Associate Professor, Department of Computer Science and Engineering has been the Judge for paper presentation in National Level Conference organized at Sri Krishna Engineering College, Chennai.
- **Mr.M.Ramamoorthy**, Associate Professor, Department of Computer Science and Engineering presented a research paper on “*Advances in Information Technology*”, on 3rd April 2014, in the International Conference organized by Syed Engineering College.
- **Mr. M. Ramamoorthy**, Associate Professor, Department of Computer Science and Engineering presented a research paper on “*RealTime Moving Object Detection by Using Background Subtraction Techniques*”, on 21st March 2014, in the International Conference organized by AMC Engineering College, Bangalore.
- **Mr. M. Ramamoorthy**, Associate Professor, Department of Computer Science and Engineering presented a paper on 22nd March 2014, on the topic “*Medical Image Fusion using Gabor and Gradient Measurement*” at KLN College of Engineering & Technology.
- **Mr. A. S. Kabilan**, Associate Professor, Department of Computer Science and Engineering has been the Chief Guest and Judge for Project Expo organized on 19th March 2014 at Sri Sai Ram Engineering College.
- **Mr. S. S. Arumugam**, HoD, Department of Computer Science and Engineering published a research article in the “JTAIT”, Vol 27, Issue 58, on the topic “*An Efficient Algorithm for Privacy Preserving Temporal Pattern Mining*”.
- **Dr.R.Varatharajan**, the HoD, Department of ECE published a research article in the International Journal of European Journal of Scientific Research, volume 102, No. 2nd May 2013 (ISSN No. : 1450-216X/ 1450-202X) on “*Analysis of Voltage to Current Converter Sense Amplifier for Low Power SRAM*”.
- **Dr. R. Varatharajan**, the HoD, Department of ECE published a research article in the journal of theoretical applied information technology, volume 67, No.3 September 2014 (ISSN NO: 1992-

8645) on *“Performance Enhancement of a Silicon MEMS Piezo Resistive Single Axis Accelerometer with Electroplated Gold on a Proof Mass”*.

- **Dr. R. Varatharajan**, the HoD, Department of ECE published a paper on *“Analysis of Voltage to Current Convert Sense Amplifier for Low Power SRAM”* in international journal of European journal of scientific research volume 102, No.2nd May 2013 (ISSN NO: 1450-216X / 1450-202X).
- **Mr. A. S. Kabilan** of CSE Department presented a paper on *“Implementation of In Cast Congestion Control”* in SCAD College of Engineering & Technology on 27th Feb 2014.
- **Mr. M. Ramamoorthy** of CSE Department presented a paper on *“Efficient Moving Object Detection by using Decolor Techniques”* in SLAEC on 21st May 2014.
- **Ms. T. Sudha, Ms. S. Jenita Christy, & Ms. R. Rohini** of CSE Department presented a paper on *“Cloud Infra Structure Srvices”* in GKM College of Engineering on 16th June 2014.
- **Ms. R. Revathi** of ECE Department presented a paper on *“Reduction of Glitches using NAND based Digitally Controlled Delay Line in CMOS Technology”* in the International Conference conducted by Travancore Engineering College on 1st April 2014.
- **Ms. A. Rasheeda** of ECE Department presented a paper on *“Low Power Technology for Power Reduction in SRAM using Read Stability”* in the International Conference conducted by Dhaanish Ahmed College of Engineering on 10th April 2014.
- **Mr. R. Raju** of ECE Department presented a paper on *“Linearity Analysis of SAR for Optimization of Speed and Power”* in the international Conference conducted by Sri Muthukumaran Institute of Technology on 17th April 2014.

Achievements:

Dr.R.VenkateshBabu, Principal, Sri Lakshmi Ammaal Engineering College was recently awarded the *“Dr.Radhakrishnan Gold Medal Award”* for *“Outstanding Individual Achievement in Education and Research”* by GEPR -Global Economic Progress and Research Association on the year’s Teachers’ Day - 05th September 2014 in recognition of his contribution in the field of Education and Research. The Award was presented by Prof.Dr.MannarJawahar, Former Vice Chancellor, Anna University and Hon’ble Justice K.N.Basha, in the presence of Shri. K.Venkatapathy, Former Minister of State for Law and Justice, Govt. of India.



“Dr. Radhakrishnan Gold Medal Award” is bestowed up on Dr. R. Venkatesh Babu by the Chief Guests

Sports Corner: Tournaments:

- Dr. R. Venkatesh Babu, Mr. D. Jayendran, won the Spark Badminton Tournament 2013, organized by the Spark Badminton Club, Thiruvanchery.
- The Cricket Tournaments were conducted in the month of February & March 2014 both for students and staff.

12. Increase in Infrastructure Facilities:

- Second floor construction work completed in the Mechanical Engineering Department.
- Installation of a full – fledged language laboratory.
- The Auditorium was installed with new modernized AV Systems.
- The vehicle parking area flooring completed and upgraded as a covered parking area.

13. Technology Up-gradation:

- Regular updating of SLAEC website is done.
- On Line facility for all the Students & Staff is provided.
- Major Instruments & Facilities for Labs are provided.

- Laptops, LCD Projector, Internet facility for all the Departments are provided.

14. Computer and Internet Access and Training to Teachers and Students:

The institution appraises the performance of the teaching and non-teaching staff through the Principal and the Management. The faculty (teaching and non-teaching) have been introduced to the use of computers, internet, audio-visual aids, computer aided packages etc., through:

- Electronic Equipment in registration and communication
- Training programmes in the use of Computers, Fax Machines, Printers, Scanners, etc.
- Material Collection, Teaching & Demonstration for research purposes.
- Institutionalizing Endowment Awards.

15. Improvements in Library Service:

As a part of the extension activities, the library has a separate information center with a number of useful books on General Knowledge and for Competitive Examinations. As an '*Initiation Program for Freshers*', the library conducts Orientation Courses for the effective use of the library and its resources for the 1st year UG and PG students. The students can log in to the library between 08:00 am and 08:00 pm.

-) Alphabetical card database: title-wise and author-wise is provided.
-) Students by themselves can search for books with the help of OPAC system efficiently.
-) Library staff are always available to help the students in case of any difficulty in using OPAC system.
-) S L A E C digital library provides online service regarding study materials for all the departments.
-) Readers' Club meetings are conducted twice in a month.
-) Libraria Quiz is conducted twice in a year (I & II SEM).
-) NPTEL lectures included in Library hours in regular time table.
-) New Arrivals Corner.
-) Newspaper corner.
-) Maintenance of zero dust environment.

Number of New Books / Journals Subscribed and their Value:

-) The total number of books in the library: Titles - 4,785 and Volumes-17,012.
-) The library has bought 20 periodicals, 57 Journals and 5 Newspapers including the subscribed and the free ones. A total of 325 books were added during the academic year 2013-14. An Encyclopaedia collection costing Rs.1,00,000/- has been added to the library.
-) The library has a separate Information Centre exclusively for Career and GK.

16. Health Services:

-) A doctor is available in the campus during working hours of the institution.
-) Free medical treatment is available both for SLAEC students and staff in Sree Balaji Hospital, Chennai.
-) NSS, YRC Volunteers have donated blood for emergency operations at various hospitals in Chennai, apart from the regular blood donation camps.

17. Best Practices of the Institution:

-) SLAEC follows the norms of AICTE and strictly adheres to the guidelines of the affiliating University.
-) Financial assistance to sports persons.
-) Students are updated in the recent developments happening in their respective fields of specialization by means of industrial visits, participation in symposiums, conferences, Projects, Seminars, etc.
-) The College conducts Periodical Tests, Oral Examinations, Assignments and Seminars.
-) Project works/On the Job training are part of the curriculum in both UG and PG courses.
-) Special coaching classes are conducted for the students to help them prepare for the competitive exams like GATE, GRE etc.,
-) Students can take-up courses like Career Oriented Programmes and certificate/diploma course in all the departments.
-) ID cards have holograms of barcode, also used for book issue by the Library.
-) Industry – Institution Interactions are practiced regularly.
-) A scientific plan of timetable in consultation with all the departments ensures full and optimal utilization of Conference halls, Lecture halls and Computer laboratories, Digital library with open access system.

-) Recycling of Water using Sewage treatment plant.
-) Inter collegiate State Level Student Seminars are conducted departmentwise every year to encourage students of this region to participate and develop their presentation skills.
-) Remedial classes for slow learners.
-) Personal counseling.
-) Well Planned Class rooms, Language Labs, Laboratories, Auditorium, Digital Library, Hostel, Office Automation.

Part -C

Plan of the Institution for the Next Year, 2014 - 15:

-) To take up funded Research Projects, organize Seminars by getting grants from funding agencies.
-) Institution has plans for getting ISO Certification next year.
-) More need based UG & PG courses to be introduced.

Name & Signature of the
Coordinator

Name & Signature of
the Chairperson, IQAC