



# SJCET Newsletter

ST. JOSEPH'S COLLEGE OF ENGINEERING & TECHNOLOGY, PALAI

An Institution with Minority Status

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For Private Circulation

SJCET : A College with a Difference !

Vol. 2 No.2 Half Yearly July 2008

## ALL KERALA IEEE FACE TO FACE LINKS MEET AT SJCET

LINK (Local Integrated Network of Kerala) was introduced in 2002 by IEEE student branch in order to reorganize, synchronize & uplift the various student branches all over Kerala. The SJCET student branch is classified as one of most active branches in Kerala.

8<sup>th</sup> of March 2008 was an unforgettable day for SJCET. All Kerala LINK's FACE to FACE Meet was held in the college campus. 88 students from 22 colleges spread all over Kerala graced the meeting with their presence.

The meeting commenced at 10.40 a.m with a prayer song by SJCET choir. On this occasion, LINK chairman Prof. S. Gopakumar, LINK vice-president Varun Raj, IEEE branch counsellor of SJCET, Mr. Arun S Gopinath, and LINK student representative Mr. Shawn Thomas, together lighted the lamp. Thereafter the IEEE code of ethics were read. This was followed by a self-introduction by all participants present in the meeting.

Thereafter, Prof. S. Gopakumar briefed the participants about the mission, achievements and activities, functions and constituents of LINK. Further, he highlighted the need for active participation from all members of the student branches. At the end of his address, there was a query session for the participants to clear doubts and give clarifications. Prof. S. Gopakumar, then officially launched the IEEE LINK website [www.ieeelink\kerala.com](http://www.ieeelink\kerala.com), after which the participants dispersed for lunch.

The next phase of the meeting commenced at 1.45 p.m, with a melodious song by IEEE members of SJCET. Thereafter, each of the branches of IEEE LINK participating in the meeting presented their future plans related to activities of the LINK. This was followed by election of hub drivers, for each hub. From SJCET, Chandu Thomas (S4AEI) was selected as the assistant hub driver.

Thereafter LINK vice president Varun Raj organised a general discussion about prospective activities for "Women In Engineering"(WIE), in order to enhance their participation.

To mark the occasion of international women's day, special games were organized by IEEE members of SJCET exclusively for women and the winners were felicitated by Prof. S. Gopakumar. As part of the LINK event, Prof. Gopakumar emphasized the need to appoint branch mentors in the various student branches of LINK, who would supervise, foresee and coordinate in a pragmatic manner, the various IEEE activities in their colleges. He underlined the need for conducting regular meetings of various Branch Counsellors with discussions aimed at bringing forth new ideas and innovative measures to keep the various branches active and vibrant. The IEEE members of SJCET worked day and night for organising the event and making it a grand success. The meeting concluded at 5.00 p.m. with a photo session.



*Inauguration by Prof. S. Gopakumar.*



*Interactive session in progress*

WISH YOU A HAPPY & PROSPEROUS ONAM!

## Autonomous Colleges and Deemed Universities

All over the world, higher education is provided only in university campuses. The affiliating system is a phenomenon now prevalent only in India and its two neighbours, i.e., Pakistan and Bagladesh. In all other countries of the world, advanced or developing, all the academics are involved in the preparation of curriculum and syllabi, admission procedures, instruction, evaluation and announcement of results, besides research. Because of the affiliating system, these activities are confined only to a few in India and the vast majority of the faculty members in the higher education system mainly function as instructors reduced virtually to tutors in the class rooms. To restore to the academic community its due rights and responsibilities at least in purely academic matters, if not in administrative and policy making areas, the concept of academic autonomy for deserving institutions was advocated and in principle accepted by the Governments at the Centre and States. The National Policy on Education (1986) contemplated that at least 10% of the colleges in India must be given autonomy in the VII Plan period. However, only a fraction of this target has been realised so far.

Perhaps a more important ground for autonomy is the opportunity granted to a college and its faculty for revising the curriculum and syllabi at regular intervals and adoption of modern methods of evaluation. This factor is extremely important for engineering and technology where many items of knowledge become obsolete and new knowledge evolves at a rapid rate. It is therefore almost impossible to keep engineering education modern and relevant unless the institutions have the freedom to review, revise and renew the contents of the programmes almost annually.

After getting academic autonomy, these institutions can aspire to secure deemed university status so that they can confer their own degrees. There are a large number of institutions that would qualify for autonomy and some that can stake their claims justifiably for declaration as deemed universities. Among the States in India, Tamil Nadu has given a lead in this direction and now there are over a dozen engineering colleges which have secured deemed university status. It is hoped that other States in India will follow the example of Tamil Nadu. The deemed university status will give a distinct identity and character for the institution. The teachers are empowered because they are involved in the curriculum preparation and they become the final evaluators of their students.

Academic autonomy and deemed university status will bring more work and responsibility for the faculty members and the management. If not taken up seriously with full commitment and dedication, the image of the institution will go down rapidly and the institution may be forced to close down.

An affiliated college is an anachronism; academic autonomy is a sine qua non for up-to-dateness in engineering education.

## Activity for the Season

Students to discuss the topic:  
 "How to improve my employability skills?"  
 Teachers to discuss the topic:  
 "How can I contribute to the accreditation process of my department?"

## Theme for the Season

Achievement requires character, discipline, united action and the readiness to sacrifice the individual self for the larger cause.  
 .... Jawaharlal Nehru

## Words of Wisdom

- If you want to reach the highest, begin at the lowest.  
 ... *Syrus*
- Most people would succeed in small things, if they are not troubled with great ambitions.  
 ... *Longfellow*
- Two men look out through the bars: One sees the mud and one the stars.  
 ... *Federick Longbridge*
- You are the maker of your own fortunes. You make yourself suffer, you make good and evil and it is you who put your hands before your eyes and say it is dark. Take your hands away and see the light.  
 ... *Swamy Vivekananda*
- Our world is small but it has enough room for all of us to live together and improve the quality of lives of our people in peace and harmony.  
 ... *Indira Gandhi*
- I like the dreams of the future better than the history of the past  
 ... *Thomas Jefferson*
- Be concerned with actions only, never the results.  
 ... *Bhagavad Githa*
- The very act of aiming at something big makes you big.  
 ... *Jawaharlal Nehru*
- The end of all knowledge must be building of character.  
 ... *Mahatma Gandhi*
- Ninety- nine percent of the failures come from people, who have the habit of making excuses.  
 ... *George Washington*
- There is a great difference between knowing a thing and understanding it.  
 ... *Charles Kaltering*
- Leadership is action, not position.  
 ... *Donald H. Mc Gannon*
- Watch for big problems. They disguise big opportunities  
 ... *Jackson Brown Jr.*

## The Lighter Side

- Wit is the rarest quality to be met with among people of education.  
 ... *William Hazlitt*
- The woman cries before the wedding; the man afterward.  
 ... *Polish Proverb*
- A generation ago most people needed rest after a day's work; now we need exercise!  
 ... *Geoffrey Moss*

## Absent Minded Professor

The Professor was strolling in the beach, when a young man greeted him.

Professor: "Which class are you studying in?"

Perplexed young man : "I am a lecturer in your department for the last two years."

## News from Faculty

### Conferences / Seminars attended

- Mr. Shijin C. S., Lecturer in AEI attended the National Conference on **Advances in Communication, Instrumentation and Informatics** (NCAII - 2008) at St. Xavier's Catholic College of Engineering, Kanyakumari on 28<sup>th</sup> February, 2008.
- Mr. Rajesh Baby, Lecturer in ME attended a workshop on **Cryocoolers : Theory, design and practice** at I.I.T, Mumbai from 19<sup>th</sup> to 22<sup>nd</sup> February, 2008.
- Mr. Vinay V. Panicker, Lecturer in ME attended a workshop on **Metal Forming and Powder Metallurgy** organized by the department of Production Engineering at NIT, Tiruchirappalli under TEQIP Community Services from 28<sup>th</sup> to 30<sup>th</sup> January, 2008.
- Ms. Simi V. R. and Ms. Linta. P. Joseph, Lecturers in CSE attended '**SPARK**' - a seminar conducted by Infosys on women's day at Trivandrum on 8<sup>th</sup> March, 2008.
- Ms. Ajith Thomas, Asst. Professor in School of Management attended an International seminar on **Small and Medium Tourism Enterprises:- The local and unique** conducted by The University of Southern Mississippi and Kerala Tourism Department at Cochin on 12<sup>th</sup> and 13<sup>th</sup> May, 2008.
- Ms. Ajith Thomas, Asst. Professor in the School of Management attended Incredible India Second International Conference on **Responsible Tourism in Destinations** conducted by ICRT, India and Govt. of Kerala at Le Meridien Resort and Convention Centre, Cochin from 21<sup>st</sup> to 24<sup>th</sup> March, 2008.
- Mr. Justin Thomas, Librarian attended a one-day national seminar on **Library at cross roads** at Cochin on 2<sup>nd</sup> February, 2008.

### Papers Presented / Published / Accepted

- Mr. Shijin C. S., Lecturer in AEI presented a paper entitled **Robust Controller Design for Non-Linear Process** at the National Conference on "Advances in Communication, Instrumentation and Informatics (NCAII -2008)" held at St. Xavier's Catholic College of Engineering, Kanyakumari during 28<sup>th</sup> and 29<sup>th</sup> February, 2008.
- Dr. K. J. Wilson, HOD, AEI, delivered a talk on **Recent Advances in Wireless Power Transfer** at Indian Institute of Science, Bangalore on 14<sup>th</sup> February, 2008
- Dr.K.J.Wilson, HOD, AEI, delivered two talks, at Vishwa Jyothi College of Engineering & Technology, Vazhakkulam on 15<sup>th</sup> January, 2008.  
**i. Research Career for Engineering College Teachers**  
**ii. Wireless Power Transmission**
- M/s Prof. E.V.S.Namboodiry, HOD, ME, Jilse Sebastian, Bony John, Thomas Joseph and Rajesh Baby, Lecturers in ME presented a technical paper entitled **An Experimental performance evaluation of nozzles used in vortex tubes** in the 15<sup>th</sup> ISME International Conference on "New Horizons of Mechanical Engineering" at Rajiv Gandhi Technological University, Bhopal from 18<sup>th</sup> to 20<sup>th</sup> March, 2008.
- Mr. Thomas Joseph, Lecturer in ME presented a technical paper entitled **Graph based feature recognition system using STEP file** in the national conference on "Advances in

Mechanical Engineering (AME '08)" at Viswajyothi College of Engineering & Technology, Vazhakulam, Kerala during 28<sup>th</sup> and 29<sup>th</sup> March, 2008.

- Ms. V.S Sujatha, Asst. Professor in School of Management presented a Paper on **Values and Ethics in the Era of Liberalization, Privatization and Globalization** in the National Seminar "GIAL EXCEL 2008" at Girideepam Institute of Advanced Learning, Kottayam in association with Mahatma Gandhi University Kottayam on 28<sup>th</sup> January, 2008.
- Mr. Arun Madhu, Lecturer in CSE presented a technical paper on **Localization in wireless sensor network** at IIT Chennai on 8<sup>th</sup> January, 2008.
- Mr. Vinay V. Panicker, Lecturer in ME presented a technical paper entitled **Prioritization of Alternatives in Energy Conservation Perspective** in the International Conference on "Intelligent Systems and Control (ISCO 2008)" at Karapagam College of Engineering, Coimbatore during 1<sup>st</sup> and 2<sup>nd</sup> February, 2008.

### Training Programmes attended

- Prof. Madhukumar S., Asst. Professor in ECE and Mr. Tomson Davis, Lecturer in ECE attended a course on **Embedded System Design** at Saintgits College of Engineering, Kottayam during 4<sup>th</sup> and 5<sup>th</sup> of January, 2008.
- Mr. Babusanker S., Lecturer in ME attended a two-day training programme on **Trainers training for NSS programme officers** organized by the Kerala State pollution control board at Youth Hostel, Cochin, during 8<sup>th</sup> and 9<sup>th</sup> April, 2008.
- Mr. Arun Kumar E. T., Lecturer in ECE attended a short term training program on **Evolving Trends in Electronics and Communication** at Amal Jyothi College of Engineering, Koovapally from 7<sup>th</sup> to 14<sup>th</sup> January, 2008.
- Mr. Justin Thomas, Librarian attended a three-week U.G.C refresher course on **Library Management** at Kerala University from 7<sup>th</sup> to 25<sup>th</sup> April, 2008.
- Mr. Baiju T., Lecturer in Mathematics attended a one-week training programme on **Soft Computing** at Gandhigram Rural University, Dindigul, from 21<sup>st</sup> to 27<sup>th</sup> January, 2008.
- Mr. Vinay V. Panicker, Lecturer in ME attended a short term training programme on **Recent Advances in Industrial Engineering** at NIT, Tiruchirappalli from 7<sup>th</sup> to 11<sup>th</sup> April, 2008.

### Recently Joined Faculty

- Ms. Rashmi Annamma George, Mr. Shijin C. S. and Ms. Dina Anna John (all B.Tech) joined as Lecturers in the AEI department. Mr. Abi P. Mathew rejoined as Lecturer in AEI department after completing M.E.
- Mr. Thomas Joseph Thoppil, B.Tech. joined as visiting faculty in ME department.
- Mr. Thomas John and Ms. Reshmi K. Mathew joined as Instructors in the CSE department.
- Ms. Jyothy V. Baby, Ms. Merin Mary Sam, Mr. Arun P, Mr. Sreesh P.R., Mr. Anoop B.N. (all B. Tech) joined as Lecturers in ECE department.

## News from Departments

### Applied Electronics & Instrumentation

#### Instrument Society of India Student Chapter

- The Sixth Programme of the Chapter was conducted on 25<sup>th</sup> March, 2008, with emphasis on Seminars on **Nanotechnology**. Ms.Sangeetha R.S., Lecturer in AEI, delivered a talk on **Nano-Robotics** and Ms.Nimmy George, Lecturer in AEI, delivered a talk on **Nanotube Radio**.
- The Seventh Programme of the Chapter was conducted on 3<sup>rd</sup> April, 2008. The highlight was an invited talk on **MEMS - Materials & Process** which was delivered by **Dr. G. Mohan Rao**, Professor, Dept. of Instrumentation, Indian Institute of Science, Bangalore.
- The department organized a four- day training programme on **PLC / SCADA Automations Hardwares & Softwares** for the benefit of S8 AEI students from 7<sup>th</sup> to 10<sup>th</sup> April, 2008, conducted by M/s Prolific Systems & Technologies Pvt. Ltd.
- Mr. Levin Christy Mathews, Mr. Joseph Chacko and Mr. Kevin T. A. of S4 AEI attended a National Robotics Workshop on **Walking Robots** held at AmritaViswavidya Peedom, Amruthapuri, Kollam from 4<sup>th</sup> to 6<sup>th</sup> April, 2008.

### Mechanical Engineering

#### Mechanical Engineering Students Association

- A talk on **Design and construction of marine structures** by **Dr. Pyarilal**, HOD, Ship Technology, CUSAT was arranged on 7<sup>th</sup> April, 2008.
- **Mr.Vinay V. Panicker**, Lecturer in ME (currently doing M.Tech. under QIP at NIT, Tiruchirappalli) secured an award for the **Outstanding Student in M.Tech** (Industrial Engineering) for the year 2007-2008 by RECAL - The Alumni Association of NIT, Tiruchirappalli. He also won the **Academic Proficiency Award for First Rank in M.Tech** (Industrial Engineering) in I<sup>st</sup> and II<sup>nd</sup> semester.
- A talk on **Recent Advances in Cryocoolers** by **Mr. Rajesh Baby**, Lecturer in ME, was arranged on 9<sup>th</sup> April, 2008.
- Twelve students of S4 ME attended a three-day workshop on **Robotics** organised by Amrita College of Engineering & Technology, Kollam, from 5<sup>th</sup> to 7<sup>th</sup> April, 2008.
- The following are the prize winners in the **General Engineering Test (GET 2008)** conducted by the Mechanical Engineering Association on 22<sup>nd</sup> April, 2008 for first year students:

I Prize : Kishore M.D. (D Batch)  
II Prize : Besty David ( C Batch)  
: Neethu S. (D Batch)

### Electrical & Electronics Engineering.

#### Electrical Engineering Students Association

- The association arranged a workshop on **PLC -SCADA** for sixth and eight semester students on 16<sup>th</sup> February, 2008.

### IEEE Chapter

Total Student Members of IEEE in SJCT : 122 (in the year 2008)  
(Third Largest Student Branch in KERALA).

- Mr. Abdul Rashid Abdulla, IEEE Student member attended the IEEE Region 10 International Conference held at Chennai.
- IEEE student chapter of SJCT conducted an **Aptitude Test** for all the Third year B.Tech students of SJCT.
- IEEE jointly with Association of ECE conducted the **Best Team Management** Programme in **Infusion 2008**.
- 6 IEEE student members of SJCT attended a National Level workshop on **Nano Technology** conducted by NIT Calicut during February, 2008.
- Mr. Rupin Phillip (S8 AEI) and Mr. Praise Sam Kodunthara (S5 EEE) attended **All Kerala Student Congress** of IEEE at University College of Engineering, Thodupuzha.

### Computer Science & Engineering

#### Computer Science & Engineering Students Association.

- The Computer Science and Engineering Students Association conducted competitions for first year students in innovative uses of computer software packages.

### School of Management

- Industrial visit for I<sup>st</sup> Semester MBA students to M/s Hindustan Unilever Ltd. (Bakery Unit) Edapally, Cochin was arranged on 19<sup>th</sup> March, 2008.
- Industrial visits for III<sup>rd</sup> Sem MBA students were arranged to Mapro Food Processing Unit, M/s Accurate Gauging and Instruments Pvt. Ltd., M/s Electronica Ltd. and Premium Energies Transmission Ltd, all in Pune, from 26<sup>th</sup> to 29<sup>th</sup> April, 2008.



Dr. Pyarilal of CUSAT addressing students and staff of ME department.



Dr.G.M.Rao, Prof, Dept.of Instrumentation, I.I.Sc., Bangalore delivering the talk in the ISOI-Student Chapter programme

## News from Departments (continued.....)

- Talk on **The Practical Corporate Governance: The Proven Track and The Applied Management Method For Successful Civil Environment** by Mr. K.K Namboodiri Chairman, Kristal Group of Companies and **Empowering The Corporate Governance** by Mr. Jose Antony Kokkad, CEO, Bhageeratha Constructions Ltd. were arranged on 3<sup>rd</sup> May, 2008.

### Electronics & Communication Engineering

#### Electronics & Communication Students Association

- The association arranged a one-day seminar on **Demystifying Wavelets** for 6<sup>th</sup> and 8<sup>th</sup> semester students on 28<sup>th</sup> March, 2008. Dr. Ashok Rao, Professor Emeritus, JSS College, Mysore was the resource person for the event.
- **Dr. Ashok Rao**, Professor Emeritus, JSS College, Mysore, delivered a talk on **Great Engineering Teachers** for faculty and students of all branches of Engineering during the afternoon session on 28<sup>th</sup> March, 2008.
- Training program on **PIC microcontrollers** by M/s e-smart Technologies, Cochin for Sixth Semester Students during April, 2008.
- Mr. Arun Jose, Mr. Navin Thomas Mathew & Mr. Kevin Georgey of S4 ECE attended a National Robotics Workshop on **Walking Robots** held at Amrita Viswa Vidyapeedom, Amritapuri, Kollam from 4<sup>th</sup> to 6<sup>th</sup> April, 2008.
- Mr. Sabarinath G, Asst. Professor in ECE presented a technical paper entitled **An Introduction to Geographic Information Systems** at St. Joseph's College of Engineering and Technology, Palai on 12<sup>th</sup> March, 2008.

### INFUSION'08

INFUSION 2008, the 3<sup>rd</sup> annual technical fest was conducted by the Electronics and Communication Students Association on 18<sup>th</sup> and 19<sup>th</sup> April, 2008.

INFUSION'08 was formally inaugurated on the 17<sup>th</sup> of April at 2.30 p.m. The Chief Guest for the day was Mr. Saju George (DGM, Mobile Services, BSNL). The lighting of the lamp by the Chief Guest marked the inauguration of the event. The welcome address was given by the ECE department HOD, Prof C.P Sebastian, and the Presidential address was given by the Project Director, Dr. P.J George. Later the Chief Guest conducted a seminar on

**Emerging Communication Trends** which gave students further insight into the rapidly changing world of Communication. The event was concluded with the vote of thanks given by ECSA President, Mr. Varghese George.

**Day 1** of INFUSION 2008 started off with the preliminary rounds of the Best Engineer and Quiz competitions being conducted in the forenoon session. A number of students turned out to try their luck at being the chosen ones. Within a short while of the announcement of the results, the final round of the Quiz competition commenced. **Mr. K.V Thomas**, faculty of St Thomas College Pala was the Quiz master for the event. The Quiz was quite interactive with the audience winning a lot of prizes. It was a close race between two external teams but finally the team from **Mar Ivanios College** emerged victorious.

In the afternoon sessions, a **Face Painting Competition** was conducted where students were given a chance to exhibit their artistic and creative skills. The team from **Amal Jyothi College** won this event. Later in the day, the final round of the **Best Engineer** competition was conducted. **Mr. Akshay Thomas Vaidyan**, Asst. Centre Manager IMS, Cochin was judging the participants. He grilled the participants on various aspects of their life and character. Finally after an exciting session, Mr. Praise Sam was judged the **Best Engineer**. Alongside all these events, a Network Gaming competition was conducted, where participants had to exhibit their skills in the virtual world.

The morning session of the concluding day of INFUSION'08 comprised of the **Paper Presentation** event, which was the main event of INFUSION. Students presented papers on various developments in the field of Electronics & Communication. A **Circuit Debugging Competition** was conducted shortly after the paper presentation event where students had to use their analytical and theoretical knowledge in Electronics to solve the circuit given to them. The final rounds of the **Team Management** competition was conducted in the afternoon with teams selected from the preliminary round held in the morning. Here students were judged on their ability to work as a team, which is very important in this competitive world. It was an exciting event with a lot of audience participation, which made the event even more enjoyable.

The organizing committee for the event was headed by ECE department Faculty Mr. Sabarinath G with Mr. Varghese George, Mr. Eldho P Cherian and Mr. Praveen Paul as the student coordinators. The Valedictory function was conducted with Prof C.P Sebastian, HOD, ECE giving off prizes to the various participants.



Inauguration of INFUSION '08 by Mr. Saju George



Talk by Mr. Saju George (DGM, Mobile Services, BSNL)

## Activities of Major Centres at SJCET

### Road Safety Club

#### A Club for your safety

Accidents are not rare on our roads. The reason behind this disastrous situation is careless driving in almost all the cases. Pedestrians also are not aware about the judicious use of roads. Hence the students of SJCET have decided to form a "ROAD SAFETY CLUB" with the aim of involving student community in road safety activities and to create awareness on road use. The Joint RTO of Palai is taking keen interest in promoting the activities of the club. The road safety club of SJCET is registered, and the register number is K-110/08.

#### The objectives of this Club are:

1. To create awareness among students on road safety aspects.
  2. To educate road users about traffic rules, traffic regulations and other related matters.
  3. To assist in the enforcement of traffic rules.
  4. To work as a volunteer forum for aiding trauma care activities.
  5. To develop skills among the students for appropriate action in various traffic situations.
  6. To undertake all required activities for ensuring road safety of the users of the road.
- This Club was inaugurated by **Sri. P. R. Ranjan** (Joint R. T. O of Palai) on 7<sup>th</sup> April, 2008.
  - As the first venture of the Club, a **road safety awareness programme** was organized by the Club on 19<sup>th</sup> April, 2008. **Sri. M.N. Prabhakaran**, Deputy Transport Commissioner (Rtd.) gave a talk on Road Safety Awareness Programme for first year students.
  - 12 staff members of SJCET attended a **Training Programme for teachers on Road Safety** conducted by the Motor Vehicles Department, Govt. of Kerala at Palai on 23<sup>rd</sup> March, 2008.



*Inauguration of Road Safety Club by Sri. P. R. Ranjan*



*Sri. M.N. Prabhakaran addressing the gathering*

### NSS Technical Wing

The National Service Scheme ( Technical Wing) of SJCET was inaugurated by Mr. K.A. Khalith (State NSS Programme Coordinator, Technical Wing) on 27<sup>th</sup> April, 2008. Mr. Babusanker, Lecturer in ME Department has been nominated as the NSS Programme Officer of SJCET.

### Industry - Institute Interaction (III) Cell

#### Campus Connect

- As part of Industry-Institute Interaction, SJCET has entered into a partnership with M/s Infosys viz Campus Connect. Campus connect programme is aimed at achieving the goal of producing industry- ready recruits, who are well rounded and quick learners. Students can undergo training in various IT subjects, soft skills and undertake projects from the listed topics from their site ([www.infosys.com](http://www.infosys.com))
- Mr. Pramod S. Nair and Mr. Kishore Sebastian, Lecturers in CSE attended a training programme conducted by M/s Infosys in connection with **Campus Connect** by Infosys Technologies at their campus in Mahindra city, Chennai from 17<sup>th</sup> to 29<sup>th</sup> February, 2008.

### Accreditation Activities

College is applying for accreditation from the NBA, AICTE this year. We are planning to submit our application by October, 2008. As part of prerequisite, the faculty of our college underwent a three - day workshop on accreditation last year. Teams of faculty were formed in all departments and the team leaders of each department visited College of Engineering, Trivandrum which got accreditation and Amal Jyothi College of Engineering, which just had the inspection by the NBA team. Phase one work for all departments is almost completed.

### Spandanam Activities

- Conducted a visit to **Boys Orphanage** at Palai (Boys Town) on 9<sup>th</sup> March, 2008.
- Conducted **Blood Test Camp** for 1<sup>st</sup> year Engineering & MBA Students jointly with Marian Center Hospital Palai. Donated nearly Rs. 7500/- for eye operation, Hospital cases & Medicines.
- Started a **Library** for Spandanam members.
- Arun Cyril Jose ( S6 CSE), Abin George (S6 ECE), Jaison George (S6 EEE), Augustine Libin Pious (S6 ME) and Deepu P. Sunny (S6 AEI) have been selected as **Para legal workers** by Meenachil Taluk Legal Services Committee.



*Visit of SPANDANAM Members to Boys Town*

### Dealing with Weaker Students

In a teaching-learning situation, teachers often find themselves dealing with a variety of students. It has been observed that those students, who find studies interesting and enjoyable are liked by teachers. But students who are weak in studies and shirk from it are often being disliked and neglected by the teachers. This behaviour of many of the teachers cannot be justified.

One of the reasons for the substantial difference in students' performance and behaviour is their motivational level. The teachers, therefore, need to identify the students having low motivational level, provide them with the necessary guidance and motivation and make concerted efforts to sustain the motivational level of these students. In fact, the success of a teachers depends upon how well he/she can arouse the interest and desire of the students to learn.

The lack of interest in studies on the part of students can be due to the following reasons:

#### (i) Conventional teaching styles of teachers

In addition to "chalk and talk" type of teaching, teachers should use various types audio-visual aids to attract the attention of weaker students.

#### (ii) Wrong choice of courses

The students should be given counselling by the teachers so that they will feel a liking for the chosen course. If necessary, outside professional counsellors may be engaged.

#### (iii) Communication gap

There should be regular communication between the teacher and students.

#### (iv) Lack of interest on the part of teachers

Teachers should take special interest in identifying weaker students and providing necessary guidance and assistance to them.

#### (v) Inadequate facilities in the college

Class room, laboratory and library facilities should be improved to enable weaker students to take more interest in studies.

#### (vi) Improper guidance

There may be personal and family related problems for some students which prevent them from concentrating on studies. These should be identified through counselling and steps taken to rectify them. If necessary, services of professional counsellors may be sought for this.

#### (vii) Providing feedback.

Teachers should give feedback to students about their performance at regular intervals. A satisfactory feedback will motivate the weaker students to perform better.

#### (viii) Making provisions for reward

Students who excel in their studies should be properly recognized by way of various rewards, praise, social recognition etc.

If the teacher takes special interest in the weaker students in the way suggested above, most of them can be motivated to perform better in their studies and other activities.

### A Few Words

(Ms. Diana Maria Sebastian, 2006 graduating batch, Applied Electronics and Instrumentation Engineering, placed in UST Global, Technopark, Trivandrum.)



Have you ever wondered how an easy-going, immature B.Tech with bags and uniforms changes to a professional within half an year of their graduation?

Yes. I did.. Many times, especially when I got selected to an IT firm during my graduation time. I hadn't any idea of what is going on and what is going to happen. All of a sudden it happened, with the flow of IT boom. Transformation to a new stream felt to be a bit tough. But at present I feel that all happened in its own way.

The very first impression about an IT firm is that, it's just an extension of the college campus. Obviously it is!! The colourful and smart youth makes it alive. This is a competing world, where each and every one struggles for their own existence, to excel in the present state. A world mixed with fun, tension and surprises. Still there is a grading which makes a student transform to a professional employee. Our view, attitude, life style and everything will be metamorphosed to what is called corporate culture!

Deep inside it's a matter of pride that our SJCET has paved this way of my life. We were advised to be the good ambassadors of SJCET, wherever we are in. It was true. Here in UST-Global each and every individual is known by their college than the place we hail from. When I meet my college mates, the junior pass outs who join our company or the students who come here as a part of their industrial visit, it fills me with a feeling of ecstasy.

My thoughts about college and graduation days would be incomplete without the word 'nostalgia'. Every individual has a soft corner towards their past days, which has the power to make you silent for a while, to bring a smile on your face, to lead you to a wonder world which was your own life once. It's true, we cant go back to past, to make everything the way you wish. And in this era you will only be called an idiot if you live in your past with your memories. But memories should be there to refresh us....to inspire us....And it is !!!

(The alumni of the college are requested to send details of their experience in the workplace for publication in the Newsletter.)

Email: [sjcetnewsletter@gmail.com](mailto:sjcetnewsletter@gmail.com)

## SJCET Newsletter

Published by the ISTE Students' Chapter  
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### Objectives of Laboratory Classes

The most significant role that the laboratory experiments play is that they provide experiences which are conducive to the development of cognitive skills such as understanding the underlying principles, drawing references and conclusions, verifying established relationships, knowing the procedure for carrying out experiments etc. and psychomotor skills such as developing manipulative skills. In addition, these help students to develop capability of making observations, building human relations and attitudes. Thus, instruction in a laboratory class should meet the objectives related to three domains: cognitive, psychomotor and affective.

Laboratory work should therefore focus on the objectives listed below:

#### 1. Apply Theoretical Concepts.

Laboratory work should involve the application of knowledge, use of theoretical concepts and the theoretical evaluation of the results obtained by the practical experience. Through laboratory work, students should be able to develop familiarity with equipment and instruments, develop manipulative skills, work according to test procedure, take care of equipment and instruments, observe safety rules, locate faults, realize limitations of measuring instruments and overcome obstacles coming in operationalising the design.

#### 2. Develop skills in Observation and the Recording of Observations

This includes carrying out observations accurately and systematically, record the results of observation accurately, perform calculations and draw graphs.

#### 3. Assess and Interpret the Results

The laboratory work should enable the students to determine the relationships between the observed data, interpret the data, graphs etc., determine the accuracy of experimental data, discuss the limitations and/or assumptions that underline the experiment, formulate new questions based on results of the experiment.

#### 4 Develop Effective Skills

Development of positive attitude towards laboratory work and such attributes such as persistence, originality, commitment to practical work etc. are also important objectives of laboratory work. So laboratory work should help students to develop initiative and resourcefulness, develop ability to work as a member of a team and act as a leader of the team, inculcate the value of work and develop skills in inter-personal communication.

In addition to the above objectives, the laboratory work should:

- Train students in writing a report of the experiment including description of the problem, procedure followed, data collected, method of analysis, conclusion and suggestions for further work;
- Train students in keeping a laboratory note-book;
- Develop skill in problem solving;
- Bridge the gap between theory and practice;
- Generate curiosity to develop and verify new relationship among variables;
- Develop creative thinking which could lead to innovations;
- Stimulate student's interest in the subject;
- Develop confidence to tackle new problems and encourage independent thinking.

Facilities are provided in the college for all types of sports, games, fine arts, literary and technical activities. The students are encouraged to take part in various inter-collegiate competitions in these items. The following prizes and awards were received by our students during this semester.

- The team led by Mr.Suvindas (S8 AEI) and Ms.Anu Philip (S6 AEI) represented SJCET and played key roles in the *quarter final* stage of **STAR WARS** contest of Kairali TV.
- Abdul Rashid Abdulla, Ashish Paul & Mohamed Iris, all S6 ECE, won the **First Prize** in *Smart Science Competition of Azure'08* held at Amal Jyothi College of Engineering, Koovapally.
- Abdul Rashid Abdulla, Ashish Paul & Mohamed Iris, all S6 ECE, won the **First Prize** in Team Management Competition of Azure '08 held at Amal Jyothi College of Engineering, Koovapally.
- Manju Tojan & Veena Sivadas of S6 ECE, won the **First Prize** in *Synchronous Dance of Azure'08* held at Amal Jyothi College of Engineering, Koovapally.
- Jaidev Menon & Ashish Paul of S6 ECE won **Second Prize** in *Table Tennis Competition* of PACE'08 held at SJCET, Palai.
- Praise Sam Kodunthara (S4 EEE) won **Second Prize** in *Best Manager* in **Azure'08**, held at Amal Jyothi College of Engineering, Koovapally.
- Salin Sahadevan (S8 ME) won **First Prize** in *Network Gaming of Azure'08*, held at Amal Jyothi, Koovapally.
- Robin Jome (S8 CSE) won **Second Prize** in *Web Designing of Azure'08*, held at Amal Jyothi, Koovapally.
- Midhun Somy and Jomy Joy (S8 ME) won **First Prize** in *Paper Presentation of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.
- Jiby George and Sebin Jacob (S4 ME) won **Second Prize** in *Paper Presentation of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.
- Paise Sam and Jebin Mathew (S4 EEE) won **Second Prize** in *Paper Presentation of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.
- Nice Thomachan , Kiran Joseph K Jose , Lijo Abraham Punnoose (all S6 ME) won **Second Prize** in *Jam Sketch(Art Attack) of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.
- Augustine Libin Pious , Aravind Sasidaran , Arun Thomas Zacharia and Wazeem Usman (all S6 ME) won **First Prize** in *Best Magazine of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.
- Jithin Xavier , Naveen Xavier, Jomy Joy and Don Varkey James (all S8 ME) won **Second Prize** in *Best Magazine of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.
- Laveen Leouis (S4 ECE) won **First Prize** in *Best Photographer of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.
- Saif Kader (S6 ME) won **Second Prize** in *Best Photographer of Nakshatra'08* held at Saintgits College of Engineering, Kottayam.

## Prizes and Awards won by Students

- Nice Thomachan (S6 ME) won **First Prize** in *Best Entertainer* of **Nakshatra'08** held at Saintgits College of Engineering, Kottayam.
- Dilip K.R (S6 ME) won **First prize** in *Network Gaming* of **Nakshatra'08** held at Saintgits College of Engineering, Kottayam.
- Mathew George , Jomy Joy , Smithin Abraham and Don Varkey James (all S8 ME) won **First Prize** in *Treasure Hunt* of **Nakshatra'08** held at Saintgits College of Engineering, Kottayam.
- Gino Kurien (S8 CSE) won **First Prize** in *Code Debugging contest* held in connection with **Resplendous '08** at Mangalam College of Engineering, Kottayam.
- Robin Jome (S8 CSE) won **Second Prize** in *2D Designing contest* held in connection with **Resplendous '08** at Mangalam College of Engineering, Kottayam.



*SJCET Team for Starwars of Kairali TV*



*Winning Team of SJCET at Nakshatra '08, Saintgits, Kottayam*



*Winning Team of SJCET at Azure '08, AJCE, Kanjirapally*

## Notable Student Projects

- **WiPAC Wireless PC based Appliance Control** for easy implementation in SJCET with which all electrical appliances in the college can be monitored and controlled-by Deepu Baby, Jerry Jacob, Sunil Sunny, Lancy Mariam Abraham & Neeraja Somarajan (all S8 ECE) under the guidance of Prof. Madhukumar S.
- **Hospital Management System** - By Bibin Francis, Sujith Idiculla, Sanju S & Rakesh Kondoor (all S8 ECE), under the guidance of Mr. Sabarinath G.
- **Distributed College Bell**, for wireless implementation of college bell in SJCET, Palai, - by Harilal K V, Ranjith M. B., Riby Varughese, Shine Mathew (all S8 ECE), under the guidance of Mr. Arunkumar E T.
- Robin Jome (S8 CSE) developed Software for **Hostel Automation**.
- ANERT funded project on **Parabolic Trough Collector incorporated with automatic tracking system** - Carried out by Jithin Xavier, George Issac, Smithin Abraham and Vipin Jose (all S8 ME) under the guidance of Mr. Thomas Joseph & Mr. Rameshkrishnan S. Project was completed and the system has been tested successfully.
- Project work entitled **Radio controlled wheelchair** - by Jithin Thomas, Naveen M Xavier, C J Samson and Azeem Sherief (all S8 ME) under the guidance of Mr. Thomas Joseph, was completed and the system has been tested successfully.
- Project work on **Design and Fabrication of Solar Car** - by James Paul, Bibin Michael, Ajithkumar P.V. and Lalgopal (all S8 ME) under the guidance of Mr. Binoy Baby, was completed and the system has been tested successfully.

## ISTE Students Chapter

- Chapter conducted an **intra-collegiate paper presentation** competition on 5<sup>th</sup> April, 2008 for the students. Papers were presented on Nano technology, Stealth Technology, Laser Propulsion, Fourth Generation Experience and Optical Cloaking. Abdul Rashid Abdulla (S6 ECE) and Ashish Paul Thekkan (S6 ECE) jointly won the **first prize** and Sebin Jacob (S4 ME) and Jiby George (S4 ME) jointly won the **second prize**.
- Chapter conducted an **aptitude test** for all the students of SJCET in view of the forthcoming placement drives. **Navin Thomas Mathew** (S4 ECE) and **Arun James** (S1&2 B batch) won the **first** and **second** prizes respectively.



*Paper Presentation Contest conducted by ISTE Students Chapter*

## SJCETians in Action



*Mr. Prahlad Bellubi of UST Global inaugurating College Day 2008*



*Mr. Rex Varghese Inaugurating Sports Day 2008*



*Dance scene from Sargam 2008*



*Tableau scene from Sargam 2008*



*Mime from Sargam 2008*



*Logo releasing of TECHSCOL Company started by students*



*MBA Students during industrial visit at Pune*



*Approaching the target with full confidence and concentration*

## Pace '08 and Sports Day

SJCET believes in sports and physical education as prerequisites for the complete, all-round development of its students. All efforts have been made to provide maximum facilities for sports and games. Students are encouraged to participate in sports meet held annually. SJCET hosted its first Intercollegiate sports fest "PACE '08" from 3<sup>rd</sup> to 6<sup>th</sup> of March 2008.

The PACE '08 was inaugurated by **Mr. A.M. Mathew Policarp**, S.P. of Kottayam, by presenting the football to the Captain of SJCET Football Team.

The events on the 2<sup>nd</sup> day was inaugurated by **Sri. T.K. Vijayan** the Dy. S.P. of Pala. The football matches for the day commenced at 4.30 p.m. in presence of the Chief Guest.

The Programmes on the 3<sup>rd</sup> day commenced at 10 a.m. **Medical College , Kottayam** claimed the 1<sup>st</sup> prize and SJCET, bagged the 2<sup>nd</sup> prize in **Table Tennis**. SJCET Team secured the 1<sup>st</sup> Prize and RIT Kottayam won the second prize in **Badminton Competition**. Another highlight of the day was the presence of **Sri. K.K. Chellapan**, the S.P. of Idukki Dist. He also distributed the

prizes of the individual champions of Arts and Sports. Football semi finals were kicked off at 4.30 p.m. in his presence.

On the final day the football final between SJCET and RIT, Kottayam was held. **Sri. Tojan V. Cyriac** (Dy.S.P., CBCID) was the Chief Guest of the day. The Prizes for the winners in various events were presented by the Chief Guest. The winners of the football final, **SJCET Team**, won a cash prize of Rs. 10,000/- and the **Mar Joseph Pallickaparambil Priestly Ordination Jubilee Memorial Trophy**. The runners up **RIT, Kottayam** were awarded a cash prize of Rs. 5000. The winners of the badminton won a cash prizes of Rs. 3000 and the **V.M. Joseph Velliappallil Memorial Trophy**.

### The Sports Day

The **Sports Day 2007-'08** was inaugurated by **Mr. Rex Varghese**, Former Mr. India. Competitions in 21 athletics items were held. **Rahulmon K.C.** (S6 AEI) won the individual championship for boys in sports. **Jeena Ann Jacob** (S6 ECE) won the championship for girls.



*Mr. A.M. Mathew Policarp inaugurating PACE '08*



*Mr. Tojan V. Cyriac with the Football Team*



*Winners of PACE '08*



*Rahulmon K.C.*



*Jeena Ann Jacob*

### Induction Training for Teachers

SJCET is perhaps the only engineering college in Kerala, where all new teachers are given an induction training on **Teaching Methodology** before they are given teaching work. The training is conducted by the Kerala Section of ISTE at Thrissur. The course covers topics like technical education system in India, basics of teaching, teaching and learning processes, quality management in teaching, student counselling, transactional analysis, developing presentation skills, class room management, effective use of chalk board, evaluation process, time management, student-teacher interaction, micro teaching and micro teaching analysis. By undergoing such a course at the beginning of a teacher's career, even less than - average teachers are seen transformed into extraordinary teachers in most cases.



*19 teachers of SJCET who underwent an Induction Training in May, 2008 at Thrissur.*

## Sargam 2008

Sargam 2008, the arts fest of SJ CET was inaugurated by Cine Artist **Mr. Harisree Ashokan** on 10<sup>th</sup> April, 2008. The onstage competitions were on 11<sup>th</sup> and 12<sup>th</sup> April, 2008. There were 26 different competitions, where the students participated with true spirit. **Scorpions Team** won the overall championship bagging 181 points. **Mr. Arun Tom** (S8 CSE) became the Kalaprathibha and **Ms. Neethi Geever** (S1 & 2 D Batch) and **Ms. Mary Merrin** (S1 & 2 A Batch) shared the Kalathilakam.



*Cine Artist Sri. Harisree Ashokan inaugurating the Sargam 2008.*



Arun Tom



Neethi Geever



Mary Merrin

## VII<sup>th</sup> Students Convention of ISTE Kerala Section

SJ CET will be hosting the VII<sup>th</sup> student convention of ISTE Kerala Section in September, 2008. Exact dates will be announced later. Detailed brochure on the convention will be sent to all engineering colleges in Kerala by July, 2008.

The convention will be a two-day meet, where competitions and special programmes will be held for students. A meeting of Student Advisors will also be held to plan future activities. The theme of the convention will be **“The Need and Desirability of Finishing Schools for Engineering Students”**.

Participate in the Students Convention and relish a life time experience !

## Little Secrets of Success

Enjoy the thing you have to do! Whining about them will only make you tired and will keep you from doing anything well. But success, like a dog, will follow you everywhere, if you treat it as a friend.

... J. Donald Walters

## Poetry Bits

### Let us do our duty

There is so much good in the Worst of us  
And so much bad in the Best of us  
That it hardly becomes any of us  
To talk about the rest of us.  
... .. Edward Wallis Hooch

## Training and Placement Cell

The college is maintaining a very good placement record. The final year students graduating in 2008 have already achieved an excellent placement record of 137 in 20 different companies. Campus placements of students graduating in 2009 are also in full swing. Currently the placement figure is 115 and many more are expected to get placed by the year end.

## Training Programmes

A Four- day training programme for S4 students (S4 CSE, S4 EEE & S4 ECE) was conducted by International Trainer and Motivator, Mr. Krishnakumar of Vertical Eye, Ootty.



*Students of final year classes who got placements*



*Fourth semester students during training on soft skills*

## Health Hints

- Take steamy shower to clear a stuffy nose
- Ease a sore throat with a teaspoon of honey
- Immediately plunge a burn into cold water
- To stop a bloody nose, put pressure on upper lip