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■ Principal's Column ■



Seasons Greetings to All!

Jawaharlal Nehru once observed that “*A moment comes, which comes but rarely in history, when we step out from the old to the new*”. At that moment the old wisdom gives way to the vibrant, youthful and novel concepts. This happens in every walk of life and educational sector is no exception. Changes are inevitable and they fuel progress. In recent years we have been witnessing many new concepts in content preparation, transmission, and delivery. Technological changes and developments have now made it possible to offer learning paradigms never before tried out or even thought about. Several collaborative projects such as web and video based NPTEL by IITs and IISc, ISRO sponsored ‘EDUSAT’, projects under taken by MHRD, IGNOU and various state governments, and Kerala Educational Grid Project etc. are some of the important initiatives. These projects aim to provide high quality educational content to the needy, independent of geographical locations and limitations in time. Even the under privileged and less fortunate can now utilize the knowledge available in premier institutions to further their career and ambition. It is heartening to see that at CET also similar exercises are undertaken. The studio being set up at CET and programmes beamed as part of ‘Meghadoot – Edusat’ will go a long way in showcasing our commitment to technical education and to the nation.

In the campus, TEQIP has brought in visible changes in computational facilities, learning resources, educational infrastructure, campus networking and support services. Now it is the duty of the students and staff to play meaningful roles utilizing these facilities to bring about changes for the benefit of the society. By sharing and caring we will be able to reach heights never before achieved. Let us not forget that cooperation and collaboration are the key words in the new world order.

Warm wishes to all.

Dr. R Ibrahimkutty

MEGHADOOT - EDUSAT NETWORK

EDUSAT is the first Indian satellite built exclusively for serving the educational sector. It is intended to meet the demand for an interactive and non-interactive satellite based distance education system for the country. It strongly, reflects India’s commitment to use space technology for national development, especially for the development of the population in remote and rural locations. Edusat carries five Ku-band transponders providing spot beams, one Ku-band transponder providing a national beam and six extended C-band transponders with national coverage beam. It will join the INSAT system that already has more than 130 transponders in C-band, extended band, and Ku-band providing a variety of tele-communication and television services, but for education sector. The signals to the Edusat are beamed from the State Uplinking Station set up at the 10th Anniversary Hall of the Russian Cultural Centre, Gorkhey Bhavanam, Thiruvananthapuram.

As a part of this, a project named ‘MEGHADOOT’ has been implemented at College of Engineering, Trivandrum, which was inaugurated by the then Honourable Minister for Education Sri. E T Mohammed Bhasheer. Programs conducted at the Satellite Interactive Terminal (SIT) Studio will be beamed and can be attended live by participants from any ROT centre in the state. The SIT at CET is equipped with multi-media computers, audio-visual systems, audio-video-mixer, Satellite receiver and associated software. The main beneficiaries are the students of CET and Engineering Colleges in the State where ROT is installed. Dr. Dinesh Pai A (Dept. of EE) is coordinating SIT at CET with the support of Sri. Joseph Nixon (Dept. of EC) and Sri. Baburaj (Dept. of EE).



Series of Lectures by Dr. V Syam Prakash (Prof. in CE) on the topic 'Engineering Mechanics' is the programme currently beaming, which is scheduled on all Tuesdays 2:00-3:00pm, Thursdays 9:00-10:00am, Fridays 9:00-10:00am, except holidays.

The Receive only Terminals (ROT) in the state are:

1	GEC – Kannur	11	MES – Kuttipuram
2	GEC – Wayanad	12	MES – Ernakulam
3	GEC – Kozhikkode	13	IHRD – Cherthala
4	GEC – Srikrishnapuram	14	IHRD – Poonjaar
5	GEC – Thrissur	15	IHRD – Kalluppara
6	GEC – Pynavu	16	IHRD – Chengannur
7	RIT – Kottayam	17	IHRD – Adoor
8	GEC – Bartonhill	18	IHRD - Kottarakkara
9	LBS – Kasargode	19	IHRD – Karunagappally
10	SCT – Pappanamcode	20	IHRD – Attingal

HEARTY CONGRATULATIONS!

- Dr. S Latheswary (Asst. Prof. in CE) – received the Aerospace Engineering Division prize for the Best Paper published in the Aerospace Engineering Division Journal of Institution of Engineers (India).
- Ms. Anila A (S5T) and Sri. Rahul R (S3E) won the individual championship in Kerala University Inter Collegiate Chess Tournament for women and men respectively.

SHORT-TERM COURSES/TRAINING

- As a part of the MoU signed between Depts. of CE, CET and IIT-M the following PG students – Ms. Anju G, Ms. Anju W C, Ms. Kavitha Madhu, Ms. Suji R Chandran, and Ms. Susan Rose have visited IIT-M and attended the Indo-US Workshop on 'Recent Advances in Transportation Engineering' during 10th to 12th Jan/07. The topics mainly covered in the workshop were regarding ITS, Road Asset Management, Traffic Flow Models etc., These were very informative.
- A one day workshop was conducted in the Dept. of Architecture on 20th Dec/06 on 'Integrated District Plan and Local Development Plan', by the Town Planning Department of the Government of Kerala. Sri. Jacob Easow, (Senior Town Planner), Sri. Baiju and Sri. Ajayakumar (Junior Town Planners), of Kollam Town Planning Department have delivered special lectures covering various aspects in the relevant area.
- As a part of MoU signed between Depts. of CE of CET and IIT-M a short-term training programme on 'Creative Approaches in Teaching' was held at CET during 6th to 9th Dec/06. The programme was inaugurated by Dr. A E Muthunayagam, Executive Vice President, Kerala State Council for Science Technology and Environment, Government of Kerala. The programme was coordinated by Dr. J Latha (Prof. in CE) under the Networking Activities of TEQIP. About 40 participants registered for this programme of which 13 were sponsored candidates.



INVITED LECTURES

- Prof. M S Mathews (Prof. IIT-Madras) delivered an orientation lecture to the first year students of the Dept. of Architecture on 8th Dec/06.
- Prof. S Krishnamoorthy (Rtd.) TTI, Chandigarh delivered a lecture on 'Institutional Management, Excellence & Creativity' on 9th Jan/07.
- Invited lectures on different topics were given to first semester M. Tech students in the Dept. of CE –
 - 1st Dec/06: on 'Sustainable Transport' by Dr. T Elangovan, Director Grade Scientist, NATPAC.
 - 8th Dec/06: on 'Aspiration behind Selecting Civil Engineering as Profession' by Prof. Kalyanaraman, IIT-Madras.
 - 12th Dec/06: on 'Water Conservation' by Er. Komalavallyamma, Former Chief Engineer, PWD.
 - 20th Dec/06: on 'Dam Safety – Issues and Concerns' by Er. Anil Kumar, Executive Engineer, Kerala State Irrigation Department.
- Sri. Sanu George and Sri. Harikrishna V P from IBS, Technopark, delivered a special talk on 'Usability Engineering' on 15th Dec/06 and Sri. Pradeep Kumar G Senior System Architect, IBS, Technopark delivered a special talk on 'Data Base Management System' on 30th Jan/07 as a part of Industry - Institute Interaction (III).
- Dr. Kuncheria P Isaac (Prof. in CE) and Dr. V Syam Prakash (Prof. in CE) delivered series of lectures on 'Various Aspects of BMC' at the workshop on 'Ready Mix Concrete' held at the Residing Tower, Trivandrum.
- Dr. B Anil (Prof. in ME) conducted a special session on 'Micro Teaching' at College of Engineering, Munnar on 11th Jan/07.
- Prof. D Thankamoney (Asst. Prof. in CE) delivered a special talk on 'Environmental Management' during Spectrum-06 conducted at S N College, Chempazhanthy and on 'Rain Water Harvesting, Recharging and Control over the use of Ground Water' at the CPHEEO training programme on Water Works Management of Kerala Water Authority (KWA).
- Dr. M R Baiju (Asst. Prof. in EC) and Prof. V Suresh Babu (Asst. Prof. in EC) delivered invited lecture sessions on 'Field Programmable Analog Arrays' at the short-term training programme on 'Embedded Systems & FPGA Based Design' held at Government Engineering College, Barton Hill, Trivandrum.
- Prof. K A Navas (Asst. Prof. in EC) delivered a lecture on 'Image Processing using Matlab' at Engineering College, Chengannur.

- Dr. G R Bindu (Dept. of EE) delivered a lecture on 'Finite Element Method & Software Packages based on FEM' at Saint Gits College of Engineering, Kottayam, on 14th Dec/06.

RESEARCH PROJECTS/PUBLICATIONS

- A research project on 'Multi-objective Optimization of Water Distribution Network using Genetic Algorithm' funded by KSCSTE, to the extent of Rs. 9.9 lakhs, is being carried out in the Dept. of CE - Faculty involved in this project: Dr. J Letha (Prof. in CE) and Ms. Suja R (Dept. of CE).
- Dr. R Sathikumar (Prof. in CE) published a paper titled 'Impact of a proposed Satellite Town in Reduction of Average Trip Length to CBD' in the Journal of Indian Highways, Vol: 34, No: 12, Dec/06.
- Dr. Kuncheria P Isaac (Prof. in CE) and Ms. Binu Sara Mathew (Dept. of CE) published the paper titled 'Influence of Flaky and Elongated Aggregates on the Properties of Bituminous Concrete Mix' in the Journal of the Institution of Engineers (India), Vol: 87, Nov/06.
- Dr. V Syam Prakash (Prof. in CE), presented the technical paper titled 'Flexural Analysis of Laminated Composite Plates: Evaluation of a Discrete Layer Model' in the International Congress on Computational Mechanics and Simulation (ICCMS 06), held at IIT Guwahati, during 8th to 10th Dec/06.
- Sri. Vinod Chandra S S (Dept. of Computer Applications), presented and published a technical paper titled 'Hidden Markov Model Based Identification of Transliterated Regional Language Words in Text Documents' in the 20th International Joint Conference on Artificial Intelligence (IJCAI-07), Hyderabad, 6th to 12th Jan/07. Another technical paper titled 'Parallel Rendering in Linux Clusters' is presented in the National Conference held at Rajagiri Engineering College, Ernakulam, during 15th and 16th Dec/06.
- Sri. V Gopakumar, (Dept. of Physics) presented a paper titled 'Photoluminescence Emission Characteristics of Spray Pyrolytically Grown (002) Oriented ZnO Thin Films', in the 8th International Conference on Opto-Electronics and Fiber Optics PHOTONICS – 2006 at University of Hyderabad, 13th to 16th Dec/06.
- Dr. N Unnikrishnan (Dept. of CE) and Dr. Arvee Sujil Johnson (Dept. of CE) presented and published the paper titled 'Standardization of Coir Fibre as Geo Exiles' in the Proceedings of Indian Geotechnical Conference, Geo index 2006, IIT-Madras, 14th to 16th Dec/06.
- Ms. Jayasree P K (Dept. of CE) published the paper titled 'Geo - Environmental Studies on Coir Pith Mixed Soil with Special Reference to Saline Intrusion' in the Proceedings of Indian Geotechnical Conference, Geo index 2006, IIT-Madras, 14th to 16th Dec/06.
- Dr. R Sathikumar (Prof. in CE) and Ms. Rekha S (Dept. of CE), presented and published the technical paper titled 'Development & Application of Travel Demand by Train and Non-train Passengers' in the 2nd CUSAT Conference on 'Recent Advances in Civil Engineering', during 3rd and 4th Dec/06.
- Prof. Mariamma Joseph (Asst. Prof. in CE), presented the technical paper titled 'Water Management on Agricultural Soil' in the 2nd CUSAT Conference on

'Recent Advances in Civil Engineering', during 3rd and 4th Dec/06.

- Ms. Leema Peter (Dept. of CE), presented the technical paper titled 'Use of Fuzzy Logic for the Estimation of O - D Matrix from Link Volume Counts' in the 2nd CUSAT Conference on 'Recent Advances in Civil Engineering', during 3rd and 4th Dec/06.
- Dr. R Sathikumar (Prof. in CE), published the paper titled 'Development of On-street Parking Demand Model' in the Proceedings of 19th Kerala Science Congress 2007 held at Kannur, 29th to 31st Jan/07.
- Prof. Joisy M B (Prof. in CE), published a paper titled 'Estimation of Mean Aerial Precipitation using Fritz's Method' in the Proceedings of 19th Kerala Science Congress 2007 held at Kannur, 29th to 31st Jan/07.
- Prof. Mariamma Joseph (Asst. Prof. in CE), published a paper titled 'Study on Water Retention Characteristics of Soils' in the Proceedings of 19th Kerala Science Congress 2007 held at Kannur, 29th to 31st Jan/07.
- Prof. Ajitha Bhaskar B (Asst. Prof. in CE), published a paper titled 'Swelling Pressure Study of Geopile Reinforced Black Cotton Soil using Free Swell Method and Constant Volume Method' in the Proceedings of 19th Kerala Science Congress 2007 held at Kannur, 29th to 31st Jan/07.
- Prof. B Thulaseedharan Nair (Asst. Prof. in CE), published the paper titled 'Land-use Land-cover Classification of a Selected River Basin using Remote Sensing Technique' in the Proceedings of 19th Kerala Science Congress 2007 held at Kannur, 29th to 31st Jan/07.
- Ms. Swarna Latha K (Dept. of CE), published a paper titled 'Optimization of Parameters of Anaerobic Digestion - A Case Study on Craft Paper' in the Proceedings of 19th Kerala Science Congress 2007 held at Kannur, 29th to 31st Jan/07.

COMMUNITY SERVICES



- The Department of Civil Engineering, in connection with the Centre for Continuing Education, successfully conducted a 'Certificate Course on Soil Mechanics Laboratory Practice'. This was held at Geotechnical Engineering Laboratory from 1st to 30th Nov/06. The course was intended for ITI/Diploma holders and was carried out as a community development programme. Effective laboratory sessions were arranged in the forenoon and regular field visits to the different foundation construction sites under construction were arranged in the afternoons. 23 participants registered for

the programme. The course was coordinated by Prof. Mariamma Joseph (Asst. Prof. in CE) and Ms. Jayasree P K (Dept. of CE).

- A training programme on 'Total Station for ITI & Diploma Holders' during 4th Nov/06 to 9th Dec/06 and 28th Dec/06 to 7th Jan/07 for about 35 participants and another programme on 'Total Station for Kerala State Housing Board Engineers' during 18th to 23rd Dec/06 for 12 Engineers were coordinated by Dr. R Sathikumar (Prof. in CE).
- Three months intensive training programme, 'A Course on Advanced Welding', coordinated by Dr. B Anil (Prof. in ME) has been started from 15th Jan/07. About 44 participants have registered for this.
- Two days training programme on 'Entrepreneurship Development Programme' by Prof. S Sivakumar (Dept. of ME) was coordinated during 4th and 5th Dec/06. About 47 participants got benefited out of this programme.

SPECIAL ACTIVITIES

- Dr. Kuncheria P Isaac (Prof. in CE) was the Judge for the selection of Young Scientists Award at the 19th Kerala Science Congress held at Kannur, 29th to 31st Jan/07.
- Dr. B Anil (Prof. in ME) chaired a technical session in the National Seminar on 'New Industrial Engg; - Business Process Re-Engineering through IT' at IIE, Trivandrum on 2nd Dec/06. He was also a judge in the Chrominance'07, a technical fest conducted in the Department of Computer Applications.
- A group of 10 faculty members from the Department of Mechanical Engineering made a technical visit to Electric Power Station, Idukki, on 26th and 27th Dec/06.
- A National Conference on 'Computing' was organized by the Department of Computer Applications on 6th Jan/07. The conference was inaugurated by Sri. Jyothilal, IAS, Special Secretary to Department of IT, and Director of Kerala State IT Mission (KSITM), Government of Kerala. Sri. Satish Babu, President, INAPP, Technopark, Trivandrum and Secretary, Computer Society of India delivered the keynote address. Out of the 30 papers received from Engineering Colleges in South India, 20 papers were accepted and included in the conference proceedings. The conference proceedings were released by Prof. Reji John (Head, Dept. of CA).
- The ASCA (Association of Students of Computer Applications) conducted an induction program for the first semester students. Sri. Ben Chandy, Project Manager, US Technologies (an alumina of CET) delivered a talk on 'Job Opportunities and the Recent Trends in the IT Sector'. Sri. Mc Donnell (S5 MCA), a personality trainer for the 'Hindu' daily, delivered a lecture on 'Personality Development'. A talk on 'Placements in the Campus' was delivered by senior placement representatives Sri. Sandeep and Ms. Anjana.
- Chrominance'07 – A National level students Technical and Cultural event was conducted from 5th to 7th Jan/07. 20 Colleges from South India participated in the events.

CROMINANCE'07

Chrominance'07, the annual technical and cultural fest of the Department of Computer Applications was held at the College Campus during 5th to 7th January, 2007. Chrominance, as the name suggests is the festival of light and color. This is the latest in the Chrominance genera, a National level fest, which offered much to its participants; to get inspired, innovate, and implement their talent set. A technical paper presentation contest and 'Chrominite' the cultural extravaganza gave Chrominance'07 a dazzling outlook. Chrominance'07 provided a rare chance for its participants to showcase their technical skills and extracurricular standards.



Chief Guest Sri. Jyothilal IAS, Special Secretary to Department of Information Technology (IT), and Director of Kerala State IT Mission (KSITM), Government of Kerala, formally inaugurated Chrominance'07. He

delivered an enlightening speech on the prospects of Information Technology (IT) in the ever growing corporate world and discussed on the Government plans to foster the IT sector. The function was presided over by Prof. Tomy Michael (Dean-PG Studies). The felicitations speeches were delivered by Sri. Anwar Sadath {an alumna of CET}, Manager: E-Governance, Head-Akshaya (Malappuram Cell), and Prof. M M Mathews Panicker (Dean-UG Studies).



Students from 20 Colleges from various parts of the country participated in this fiesta to partake in the various episodes and to showcase their technical competency. The coding, technical quiz and dumb charades

events put into test the technical know-how of the competitors. Through the marketing and web designing events the participants could promulgate the imagination and their skill set. The most attractive of the events was the technical paper presentation, where students as well as faculty from different colleges presented their papers on various technical topics.

St. Aloysius College emerged as winners and won the overall trophy of Chrominance '07. Star of Chrominance was an event that added spark to the fest and the winner is Ms. Clarissa Fernandez.

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Editors: Dr. Dinesh Pai A, Dr. Bindu G R
Department of Electrical Engineering, CET

