

29th National Convention of Computer Engineers

&

National Seminar

On

“Emerging Technologies in Computer Engineering”

(ETICE - 2015)

07^h-08th February, 2015

Supported By

Institution of Engineers, India

CONFERENCE REPORT

Organized By:



Department of Computer Science & Engineering (NBA Accredited)
Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur-302017
Telephone: 0141-5160400 (Ext. 283, 286, 280), Fax: 014-2759555
E-mail: ncetce2014@skit.ac.in, Website: www.skit.ac.in

	AUTHOR/OWNER	REVIEWED BY	APPROVED BY
NAME	Ms. Shubra Mr Vinod Kumar Maneria	Mr. Manoj Nama Mr. Anil Kr. Prajapati	Prof.(Dr.) C.M. Choudhary Mrs Neha Janu
DESIGNATION	Secretary	Coordinator	Convener Co-convener
SIGNATURE			

29th NATIONAL CONVENTION
of
COMPUTER ENGINEERS
AND NATIONAL SEMINAR
on
Emerging Technologies
In Computer Engineering
7th - 8th Feb. 2015

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<p>As a token of remembrance to our distinguished guests, industry delegates and young researchers we presented them a technical memorabilia, The ETICE 2015 Proceedings.Error! Bookmark not defined.</p>	
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OVERVIEW OF ETICE-2015

This conference aims at providing a stage for expert technical exchanges and exhibitions regarding the advanced technologies, equipments, techniques, and innovations applied in field of Computer Engineering and Information Technology.

It has attracted government officials, multinational experts, entrepreneurs, managers, researchers and technicians in relevant fields to discuss together their ideas and experiences.

The Organizing Committee of the ETICE-2015, with its utmost sincerity, intends to invite all the related experts and scholars in the country to attend the Conference and to realize the most extensive exchanges and discussions in this field.

VISION

“To contribute to the Research Community through excellence in scientific and technical research; to serve as a valuable resource, a platform for industry and society and remain a source of pride for researchers.”

MISSION

“Our mission is to advance the state of art in Computer Engineering and Information Technology and to bring those advances for the benefit of society’s businesses”

INAUGURAL CEREMONY



Chief Guest - Shri Ashok Jain, Additional Chief Secretary Govt. Of Rajasthan.

Guest Of Honor :Dr. Sandeep Sancheti (President Manipal University)

Invitees– Prof. G.S. Dangayach(Chairman FIE,IEI,RSC),Mr. K. Rajanikanth
(Chairman CPDB,IE(I)), Prof. Vinit Sahula.

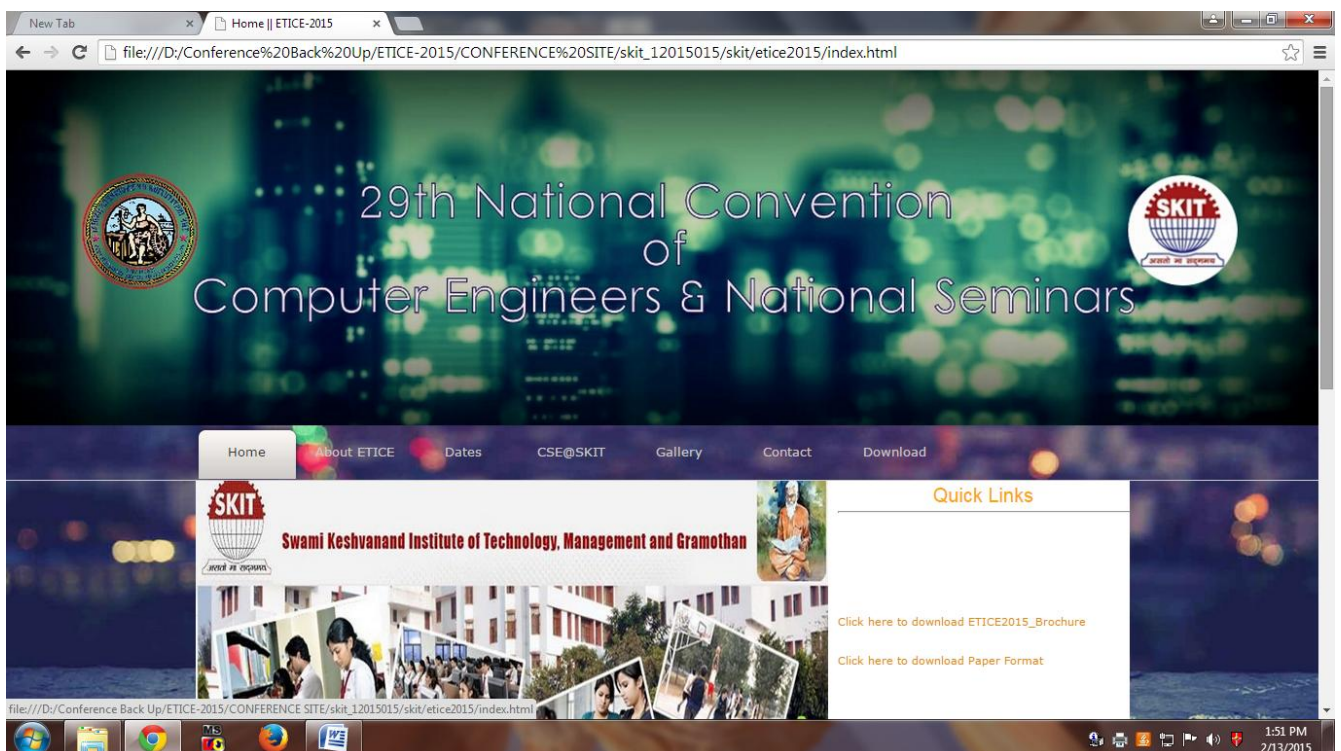
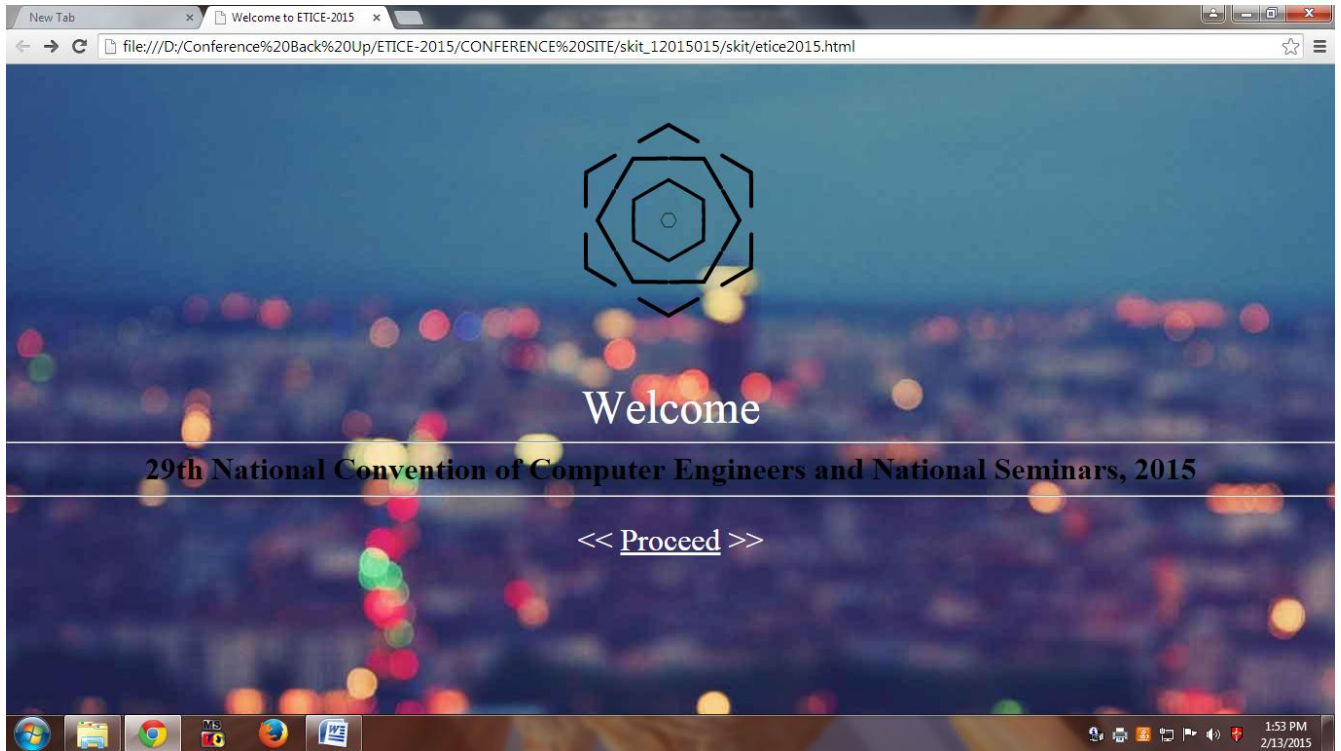






The Inaugural Ceremony started with lamp lighting by the Chief Guest – Sh. Ashok Jain and other invitees. He addressed the students and appreciated the arrangements and the presentations made.

ETICE-2015 Website



Technical Session-1

Keynote Speech on “**Mobile Platform Security**” by Prof. M.S. Gaur(Professor,MNIT Jaipur).

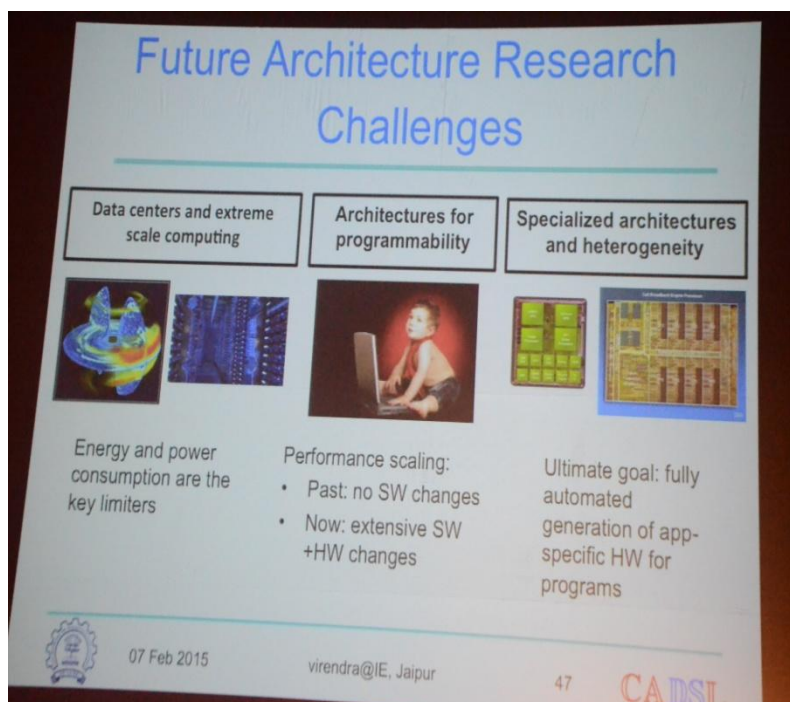


His speech focused on the following valuable points:

- Enabling mobility across the entirety of an organization requires the orchestration of many mobile technologies.
- In the past, this meant settling for the incomplete capability that one vendor offers, or having to use non-integrated components sourced from multiple vendors.
- The Good Dynamics Secure Mobility Platform integrates app containerization, MAM, an enterprise app store, MDM and more, simplifying the creation of mobile apps and the ongoing management of apps, data, and devices.
- Without compromising on security or compliance needs, organizations can ensure users get the right apps on their mobile device, regardless of ownership model.

Technical Session-2

Technical Session by Session Chairperson **Dr. Virendra Singh- Prof. IIT Bombay.**



Dr. Virendra Singh's presentation mainly focussed upon the following points:

- Data centres and extreme scale computing.
- Architectures from extensibility.
- Advancing computer technology without technology progress.
- Specialized architectures and heterogeneity.
- How detailed software simulations have therefore become essential for evaluating ideas in the computer architecture field.

- There were 10 Paper presentations in this track

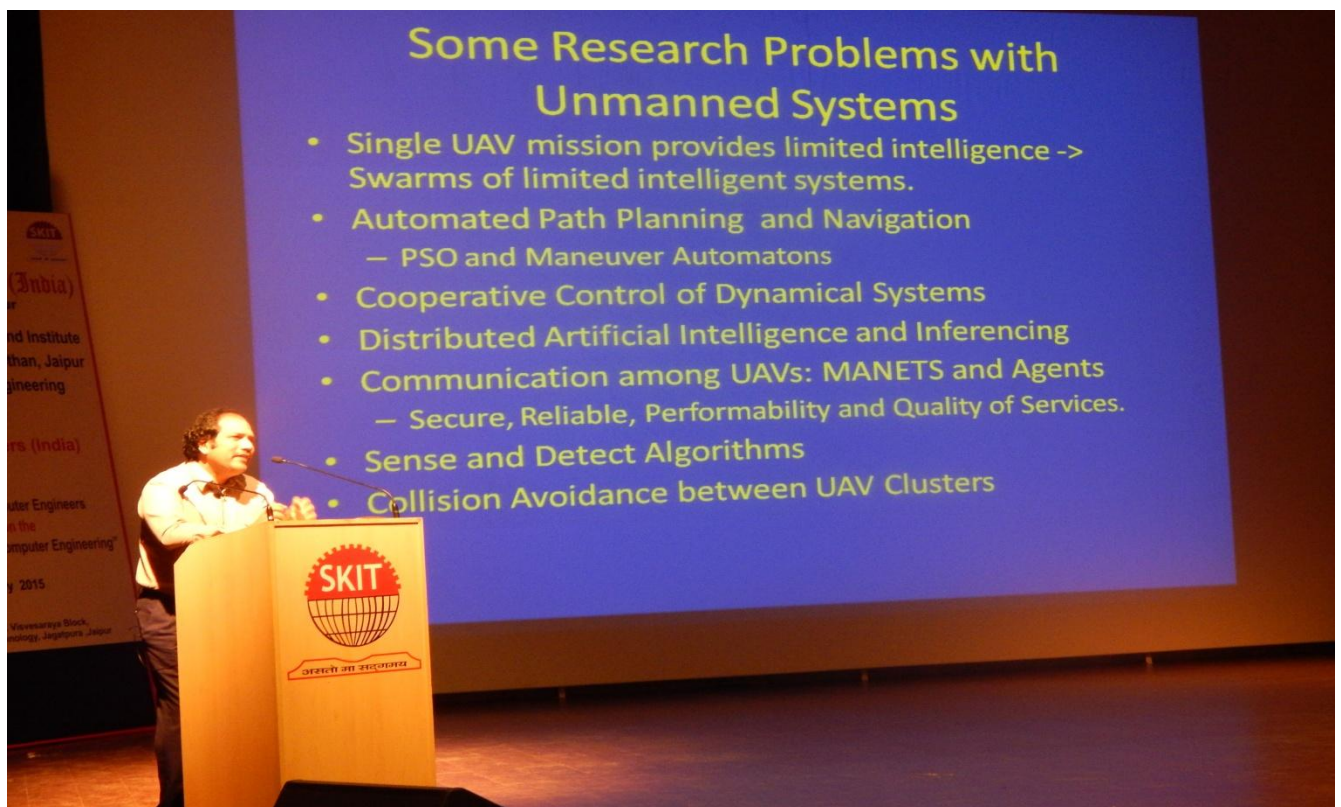
Technical Session-3

Computational Intelligence

Invited Talk on “**Computational Intelligence In Military Systems**” by Chairperson **Dr. Vijay Rao**, -Scientist-F, DRDO and paper presentation.

Dr. Vijay Rao’s Presentation focused on the following topics:

- Military target recognition in IR images is a complex area of computing where most of the existing computation methods do not provide satisfactory deployable solutions.
- Discussed how computational intelligence can be helpful in solving many complex issues.
- He further told that Computational Intelligence consists of different disciplines like Evolutionary Computation, Fuzzy Logic and Artificial Neural Networks which further have their own branches.
- In the end he told how these all combined can become a powerful tool to create an effective military target recognition solution.



- 6 Papers were presented in this Technical Session

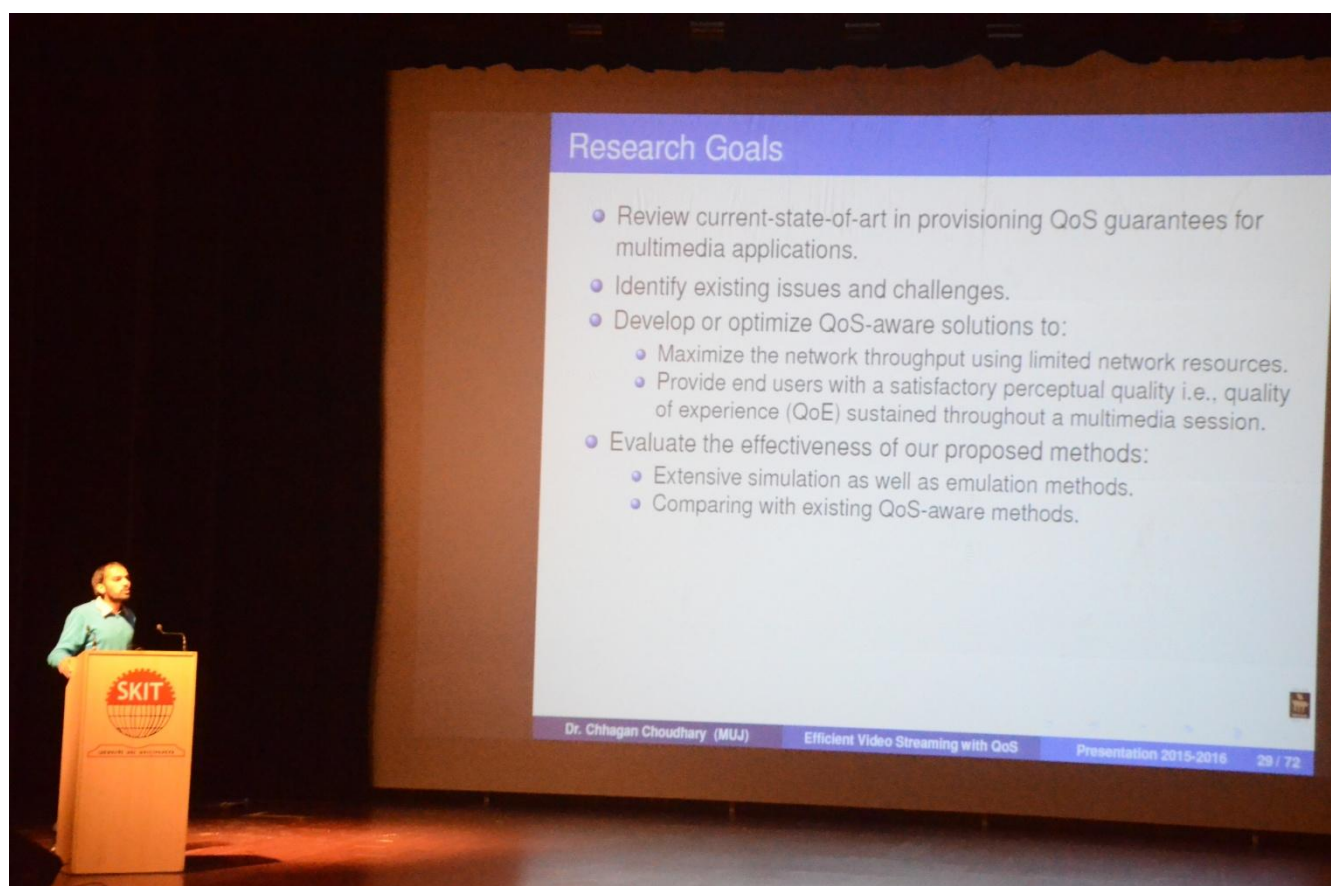
Technical Session-4

Video Streaming in Mobile Ad Hoc Networks

Invited Talk on “*Video Streaming in Mobile Ad Hoc Networks: Issues, Challenges and Countermeasures*” by Session Chairperson **Dr. Chhagan Lal**, Manipal University Jaipur.

Dr. Chhagan Lal talked about how:

- Reactive routing outperforms proactive routing methods due to their low routing overhead and better adaptation to dynamic nature of MANETs.
- Shortest hop count based route discovery process only suitable for best-effort traffic transmission.



Technical Session -5

Computationally Difficult Problems: Some Investigations

Invited Talk on “**Computational Difficulties**” by Session Chairperson **Dr. N.S Chaudhary**, Director VNIT Nagpur and prof. IIT Indore.



NS Chaudhari Sir Presentation Content

Computational Problems: - The presentation focused on classifying computational problems related to inherent difficulty.

Various other points were:

- Decision problems as formal languages
- Function problems

Machine models and complexity

measures:

- Turing machine
- Other machine models



Complexity classes:

- Defining complexity classes
- Important complexity classes
- Hierarchy theorems

- 6 Paper presentation were there in this Technical Session

Technical Session -6:

Advanced Computer Technologies

Invited Talk on “**Application of Advanced Computer Technologies in industry with particular reference to manufacturing sector**” by Chairperson **Mr. S.N. Daga**- Ex. Executive Director BHEL and paper presentations.



Mr. S.N Daga gave his presentation on: Application of Advanced Computer Technologies in industry with particular reference to manufacturing sector . He discussed on following points:

- Significance of manufacturing sector.
- Progressive growth in field of technology is necessary for existence in this competitive era.
- Internet of everything (IOE).
- Business Analytics (BA).
- Cloud computing.
- 3-D Printing
- Image Processing applications.



Wrap up and Valedictory Session

In the valedictory session key persons, practitioners and chair members shared their experiences of the conference. Certificate giving ceremony was also held at the valedictory. The conference wrapped up with a vote of thanks to all prominent guests.



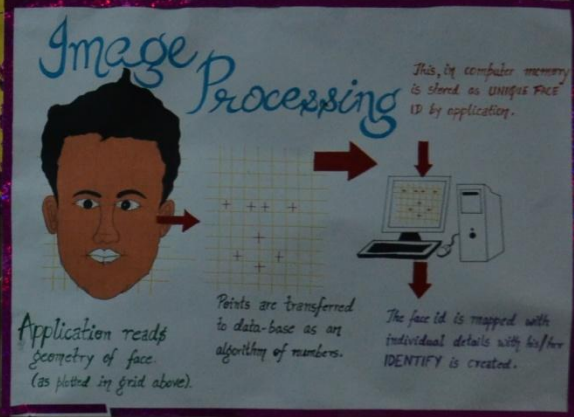


GLIMPSES OF ETICE-2015

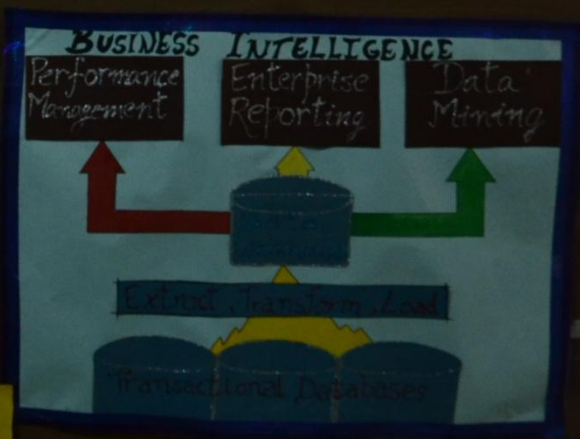




29th National Convention
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 in
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F U Z Z Y L O G I C



29th NATIONAL CONVENTION
 ON
 EMERGING TECHNOLOGIES IN
 COMPUTER ENGINEERING
 ETICE - 2015



CONFERENCE OUTCOMES

The next generation of research and development must be faster, enhanced, intelligent, integrated and secured. The conference helped the researchers and technicians to deepen the understanding of Web Application Development, Cloud & Green Computing, Mobile & Pervasive Computing, Data Mining, Security and many more research areas.

Students were also benefited and updated their skills on the latest technologies to understand how next generation computing can contribute to deliver faster and integrated commercial viabilities.

‘इमर्जिंग टेक्नोलॉजीज इन कम्प्यूटर इंजीनियरिंग’ पर नेशनल सेमिनार और कॉन्फ्रेंस

इंजीनियरिंग स्टूडेंट्स को मिलेगी ग्रांट

plus रिपोर्टर

plusreporter@patrika.com

जयपुर. ‘बीटेक, एमटेक और पीएचडी करने वाले स्टूडेंट्स को इंस्टीट्यूट ऑफ इंजीनियर्स (इंडिया) की ओर से ग्रांट मिलेगी। इसके लिए स्टूडेंट्स को इंस्टीट्यूट ऑफ इंजीनियर्स (इंडिया) के प्रोजेक्ट्स पर वर्क करना होगा। यह कहना है द इंस्टीट्यूशन ऑफ इंजीनियर्स (इंडिया) के प्रेसिडेंट डॉ. एल.वी. मुरलीकृष्णा रेड्डी का। डॉ. रेड्डी रामनगरिया स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान में शनिवार को 29वीं नेशनल कन्वेंशन ऑफ कम्प्यूटर इंजीनियरिंग और नेशनल सेमिनार



ऑन इमर्जिंग टेक्नोलॉजीज इन कम्प्यूटर इंजीनियरिंग में स्टूडेंट्स को संबोधित कर रहे थे। उन्होंने कहा कि स्टूडेंट्स इंस्टीट्यूट के प्रोजेक्ट्स में रुचि दिखाएंगे, तो उन्हें ग्रांट मिलेगी। मसलन बी.टेक स्टूडेंट को पचास हजार, एमटेक को अस्सी हजार और पीएचडी स्टूडेंट्स को एक लाख रुपए दिए जाएंगे। दो दिवसीय सेमिनार के मुख्य

अतिथि एडिशनल चीफ सेक्रेटरी अशोक जैन ने कम्प्यूटर से इलेक्शन प्रोसेस कम्प्लीट करवाने की जानकारी दी। विशिष्ट अतिथि मनिपाल विवि के प्रेसिडेंट डॉ. संदीप संचेती ने बताया कि आईटी सेक्टर का लाभ सोशल एक्टिविटी में मिल रहा है। कार्यक्रम में कॉलेज के नवनिर्मित सभागार ‘ज्ञान मंदिर’ का भी उद्घाटन किया गया।

सेमिनार में देशभर से चयनित युवा इंजीनियर्स को उनकी उपलब्धियों के लिए ‘यंग इंजीनियर्स अवॉर्ड’ से नवाजा गया। कॉन्फ्रेंस के कन्वीनर और कम्प्यूटर साइंस के हैड प्रोफेसर सी.एम. चौधरी ने बताया कि पहले दिन चार टेक्निकल सेशन हुए। इनमें विभिन्न संस्थानों से आए शिक्षाविदों और शोधकर्ताओं ने अपने रिसर्च पेपर प्रजेंट किए।

नेशनल कन्वेंशन में युवा इंजीनियर्स सम्मानित



सिटी रिपोर्टर • एसकेआईटी में शनिवार को 29वीं नेशनल कन्वेंशन ऑफ कम्प्यूटर इंजीनियरिंग और नेशनल सेमिनार ऑन इमर्जिंग टेक्नोलॉजीज इन कम्प्यूटर इंजीनियरिंग का आयोजन किया गया। द इंस्टीट्यूट ऑफ इंजीनियर्स (इंडिया) के सहयोग से कम्प्यूटर इंजीनियरिंग डिविजन बोर्ड, आईईआई के तत्वावधान में हुए इस कार्यक्रम में देशभर से चयनित युवा इंजीनियर्स को उनकी उपलब्धियों के लिए यंग इंजीनियर्स अवॉर्ड से नवाजा गया। कार्यक्रम के मुख्य अतिथि एडिशनल चीफ सेक्रेटरी अशोक जैन थे।

Dainik Bhaskar 08/02/2015(Page No.2 Jaipur City Bhaskar)

CONFERENCE PUBLICATION



SUMMARY

- **Useful Technical Sessions**
- **Research Paper Deliberation**
- **Expert Talks**