

## NWCN-2010: National Workshop on Computer Networking



*Inaugural Session of NWCN-2010: (L to R): Er. RS Vyas, Dr. SS Rathore, Prof. AK Sharma, Prof. SS Chahal, Prof. VK Srivastava, Dr. RS Shekhawat, Dr. Dharm Singh)*

A three days National Workshop on Computer Networking (NWCN-2010) was organized by CSI Udaipur Chapter & Div IV, The Institution of Engineers (India), ULC and Techno India NJR Institute of Technology, Udaipur during 17-19 May, 2010 at Techno Campus, Udaipur Rajasthan. Objectives of the workshop were hand-on computer networking trying to make education in computer networking more concrete.

**Inaugural Session:** At the inaugural session, Prof. S.S Chahal, Hon'ble Vice Chancellor of MPUAT, Udaipur and Chief Guest, shared his views about the development of computer networking in the rural areas for the development of farmers and their betterment and the Guest of Honor Prof. VK Shrivastava, Dean, CTAE, MPUAT, Udaipur spoke on the advancement in the field of computer networking.. The VC Prof. S.S. Chahal, also released a book titled "A Practical Approach towards Computer Networks" authored by Dr. Dharm Singh, Hon. Secretary of CSI Udaipur and Organizing Secretary of the workshop. Prof. AK Sharma, Dean, YMCA University of Science and Technology, Faridabad delivered the keynote address.

Er. RS Vyas, Chairman, OC welcomed the guests, participants and students to the workshop and shared the information about the MOU signed between Techno India NJR Institute of Technology and Sheffield Hallam University U.K. Dr. R.S Shekawat, Chairman, CSI, Udaipur gave a brief information about the Computer Society of India. Dr. S.S Rathore Chairman, IE(I),ULC shared his views about the Institution and its development.

**Invited Talks:** Invited talks in technical session were delivered by Dr. Manju Mandot- RV University, Amit Sanghi from Bikaner Engineering College, Er. Nitesh Mathur- Cisco System India, Mr. Uttam Sharma and Mr. Jitendra Jhakar, RNS Infotech, Jaipur and Mr. Arvind Sharma, CEG, GoR Jaipur. Er. Mathur discussed about current challenges of

networks, Cisco solutions and demo of IP Communicator, WEBEx and explained their practical implementation.

**Technical Sessions & NJR Memorial Lecture:** The workshop proceedings were scheduled and deliberated in eleven sessions which included keynote addresses and hand-on experience. Dr. Dharm Singh delivered the "NJR Memorial Lecture" with practical issues pertinent to communication over network and has expressed that workshop will provide a strong base to the computer networking education.

**Valedictory Session:** Prof. Bob Harris, Sheffield Hallam University was the Chief Guest and Prof. Dharmendra Shadija, Sheffield Hallam University and Mr. S. N. Zindal- Former Director General, Software Technology Parks of India were the Guest of Honour.



*Valedictory Session: (L to R: Dr. PN Goswami, Dr. SS Rathore, Sh. S.N. Jindal, Prof. BoB Harris, Prof. Dharmendra Shadija, Er. RS Vyas, Dr. Dharm Singh)*

In his address, The Chief Guest Bob Harris, focused how Indian people can initiate joint technology development projects with U.K. Universities. Prof Shadija presented the importance of Semantic Web. Prof. P.N. Goswami proposed the vote of thanks.

**Open House Session:** An open house session followed by dinner was organized at Cambay Spa Resorts, Udaipur and chaired by Er. H.V. Paliwal. Experts discussed and enhanced their knowledge by sharing their thoughts. The discussion and knowledge sharing among the students, participants and guests were very useful and many key participants had suggested to organize similar events regularly.

**Recommendations:** Hands-on networking laboratory experiments should be complement components to classroom lectures of Computer Networks. The Design of physical infrastructure should be scalable. City administration should plan for laying the optical fibre cable for Gigabit connectivity so that each and every house can be connected through optical fiber.

# कम्प्यूटर नेटवर्किंग शिक्षा को मजबूती देने की आवश्यकता

## कम्प्यूटर नेटवर्किंग पर राष्ट्रीय कार्यशाला

उदयपुर, 20 मई (कासं.)। कम्प्यूटर नेटवर्किंग शिक्षा को मजबूत आधार प्रदान करना है। कम्प्यूटर सोसायटी ऑफ इण्डिया उदयपुर चैप्टर, इंस्टीट्यूशन ऑफ इस अवसर पर 15-18 वर्ष के

मेनारिया, चारु सिंह, सचिन बड़ाला तथा टेक्नो इंडिया एन.जे.आर. द्वारा पोस्टर प्रजेंटेशन प्रतियोगिता में यामिनी, कुन्दन, रोशन को विजेता घोषित किया गया।

इस दौरान आयोज्य विश्व दूरसंचार दिवस समारोह के मुख्य अतिथि आर.पी. गुप्ता थे। समारोह में मुख्य वक्ता प्रो. आर.के. एन ने संचार दिवस की उपयोगिता पर प्रकाश डाला।

समारोह में प्रो. ए.के. शर्मा को दूर संचार प्रौद्योगिकी क्षेत्र में उल्लेखनीय कार्य करने के लिए टेक्नो इण्डिया एन.जे.आर. 2010 पुरस्कार से सम्मानित करते हुए 21 हजार की राशि प्रदान की गई।



उदयपुर। कार्यशाला के दौरान कम्प्यूटर नेटवर्किंग बुकलेट का विमोचन करते अतिथि।

इंजीनियर्स, उदयपुर लोकल सेंटर एवं टेक्नो इण्डिया एन.जे.आर. संस्थान द्वारा टेक्नो इण्डिया परिसर में कम्प्यूटर नेटवर्किंग पर कार्यशाला का शुभारंभ किया गया।

मुख्य अतिथि एमपीयूएटी वाईस चांसलर प्रो. एस.एस. चहल थे। अतिथि सीटीईई अधिष्ठाता प्रो. वीरेंद्र कुमार थे। मुख्य वक्ता वाईएनसीए युनिवर्सिटी ऑफ साईंस एंड टेक्नोलॉजी फरीदाबाद के डीन प्रो. ए.के. शर्मा थे।

मुख्य अतिथि प्रो. चहल ने कम्प्यूटर नेटवर्किंग का ग्रामीण क्षेत्र कृषि के विकास के लिए उपयोगिता बढ़ाई। वहीं प्रो. श्रीवास्तव ने कम्प्यूटर नेटवर्किंग में शिक्षा के क्षेत्र में विभिन्न उपयोगिताओं पर प्रकाश डाला।

आयोजन सचिव डॉ. धरमसिंह ने बताया कि कार्यशाला का उद्देश्य

छात्र एवं छात्राओं के लिए "बेहतर जीवन, बेहतर शहर, सूचना एवं प्रौद्योगिकी" विषय पर निबंध प्रतियोगिता हुई जिसमें प्रिया

## राजस्थान पत्रिका

उदयपुर, रविवार, 23 मई 2010

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## कम्प्यूटर नेटवर्किंग कार्यशाला

उदयपुर कम्प्यूटर सोसायटी ऑफ इण्डिया, उदयपुर चैप्टर, इंस्टीट्यूशन ऑफ इंजीनियर्स (इण्डिया), उदयपुर लोकल सेंटर एवं टेक्नो इण्डिया एनजेआर संस्थान उदयपुर की ओर से कम्प्यूटर नेटवर्किंग पर तीन दिवसीय कार्यशाला गुरुवार को सम्पन्न हुई। कार्यशाला के अंतिम दिन मुख्य अतिथि इंग्लैण्ड के शेफिल्ड विश्वविद्यालय के प्रो. बोब हेरिस ने यूके व इण्डिया के संयुक्त तत्वावधान में तैयार प्रोजेक्ट के बारे में जानकारी दी। उद्योगों में कम्प्यूटर नेटवर्किंग की उपयोगिता पर एन.एन.जिन्दल ने प्रकाश डाला।

## कम्प्यूटर नेटवर्किंग कार्यशाला कल से

कम्प्यूटर सोसायटी, उदयपुर इंस्टीट्यूशन ऑफ इंजीनियर्स लोकल सेंटर एं टेक्नो इंडिया एनजेआर संस्थान की ओर से 17 मई से तीन दिवसीय कार्यशाला होगी। सचिव डॉ. धर्म सिंह ने बताया कि कार्यशाला में कम्प्यूटर नेटवर्किंग से संबंधित महत्वपूर्ण जानकारी दी जाएगी। कार्यशाला के मुख्य वक्ता फरीदाबाद के प्रो. एके शर्मा, मुख्य अतिथि एमपीयूएटी के प्रो. एसए. चहल व विशिष्ट अतिथि प्रो. वीरेंद्र कुमार होंगे।

## THE ECC National workshop on computer networking ,2010

Techno India NJR Institute of Technology, Bhamashah Industrial Area, Kaladwas, Udaipur, organised a three days National Workshop on Computer Networking (NWCN-2010) in association with the Computer Society of India Udaipur Chapter and The Institute of Engineers (India), at its



Udaipur Centre. Honorable Vice Chancellor of MPUAT, Udaipur, Prof SS Chahal was the Chief Guest along with Prof Virendra Kumar Shrivastava, Dean, CTAE, MPUAT, Udaipur as the Guest of Honour. The Key Note Speaker of The Session was Prof A K Sharma, Dean and Head (CSE), YMCA University of Science

And Technology, Faridabad. Prof Chahal shared his views regarding the IT development in the rural areas for developing condition of the the farmers. Guest of Honour, Prof Virendra Kumar Shrivastava provided some knowledge on advancement in computer networking.

**National Workshop on Computer Networking (NWCN-2010)**

**TENTATIVE PROGRAM\***

**17th May 2010**

DURATION	SPEAKER	ADDRESS TYPE
13.00-14.00	<i>Registration</i>	
14.00-15.30	Chief Guest: Dr. S.S. Chahal, HVC, MPUAT Guest of Honour : <b>Dr. Virendra Kumar Shrivastva</b>	Inauguration
	Key note speaker: Prof. (Dr.) A.K. Sharma YMCA University of Science and Technology, Faridabad	Keynote Address
	Vote of thanks	
15.30-16.00	<i>Hi-Tea Break</i>	
16.00-17.00	<i>Meenakshi Tripathi, MNT, Jaipur</i>	<i>OSI Reference Model</i> <span style="float:right"><i>Invited Talk I</i></span>
17.00-17.30	<i>Praveen Sharma, BSNL, Nagore</i>	<i>Network Troubleshooting</i> <span style="float:right"><i>Invited Talk II</i></span>

18.00-20.00	<i>World Telecom and Information Society Day: WTISD -2010: Theme 2010 :-" Better city, better life with ICTs"</i>	
18.00/20.00	Chief Guest: <b>Er. R.P. Gupta</b> , Vice President World Federation of Engineering Organisation, Former president IEE Guest of Honour : <b>Er. P.C. Sanghi</b> , Chairman Rajasthan State centre IEE Keynote speaker: <b>Prof. R.K. Aeron</b> , Director, Pacific Institute of Technology, Udaipur	Inauguration
	Chair: <b>Sh. R.N.Mathur</b> GMTD, BSNL, Udaipur  Expert Panelists: <ul style="list-style-type: none"> <li>• Manoj Agarwal , MD, E-connect Solution Pvt. Ltd.</li> <li>• Deepika Pokharna, DGM, BSNL.</li> </ul>	Panel Discussion on:  <b>" Better city, better life with ICTs"</b>
20.00-21.30	<b>Open House Session and DINNER</b> <i>at</i> <b>Cambay Spa Resort &amp; Orient Spa Academy, Kaladwas, Udaipur</b>	

**18th May 2010**

9.00-11.00	<i>Nitesh Mathur, CISCO System Inc.</i>	<i>Network-device configuration with Hands on practice</i>	<i>Invited Talk III</i>
11.00-13.00	<i>Utam M. Sharma, RNS Infotech, Jaipur</i>	<i>Network Topology Design and Setup</i>	<i>Invited Talk IV</i>
13.00-14.00	<i>LUNCH</i>		
14.00-16.00	<i>Naveen Choudhary, MPUAT, Udaipur</i>	<i>Packet Analysis and Network Troubleshooting</i>	<i>Invited Talk V</i>
16.00-16.15	<i>Tea Break</i>		
16.15-17.00	<i>Mr. Azimuddin Khan RSMML</i>	<i>Network Management</i>	<i>Invited Talk VI</i>

**19th May 2010**

8.00-10.00	<i>Dr. Dharm Singh, MPUAT</i>	<i>NIR Memorial Lecturer</i>	<i>Invited Talk VII</i>
10.00-11.00	Chief Guest: <b>Maj. Gen. RR. Sanan, SDG, IET, Kolkata</b> Guest Honour: <b>Sh. S.N. Zindal, Former Director General, Software Technology Parks of India</b> Guest Honour: <b>Dr. Dharmendra Shadja (Sheffield Hallam University U.K.)</b>	<i>Valedictory</i>	

\*Speakers: Subject to last minute changes effected by the availability of speakers

◆ All sessions will be applied sessions with focus on practical skills not just theory

A REPORT

## NWCN-2010: National Workshop on Computer Networking

A Report prepared by: **Dr. Dharm Singh**, Hon. Secretary CSI, Udaipur & **Mr. H. R. Mohan**, Chairman, Div. IV



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**Recommendations:** Hands-on networking laboratory experiments should be complement components to classroom lectures of Computer Networks. The Design of physical infrastructure should be scalable. City administration should plan for laying the optical fibre cable for Gigabit connectivity so that each and every house can be connected through optical fiber.

### National Advisors

Mr. K.F. Gupta, Vice President, World Federation of Engineering Organizations  
 Delhi, A.S. Chowdhry, Chairman, Computer Division Board, IIT  
 Prof. Vinod Kumar Sharma, Dean, CTAI, Udaipur  
 Dr. A. R. Sharma, VMC A Institute of Engineering, Faridkot, Haryana  
 Mr. K.S. Dhillon, Immediate Past Chairman CSI, Udaipur Chapter  
 Dr. Arvind Sharma, CTAI, Udaipur  
 Mr. Navroz Chaudhary, CAC, CTAI, Udaipur  
 Dr. Smit Jhki, CTAI, Udaipur  
 Mr. Narain Kumar, M.V.U., Jaipur  
 Mr. Dhruv Goyal, SGVI, Jaipur  
 Dr. V.S. Dhillon, Institute of Management Studies, Noida  
 Mr. Rajesh Kumar, GITS, Udaipur  
 Mr. Anil Singh, NITTR, Chandigarh  
 Mr. Anil Singh, Engineering College, Bikaner  
 Mr. Rajesh Prasad, Engineering College, Bikaner  
 Mr. Manoj Kumar, SMC, Udaipur  
 Mr. Sanjay M. Shah, Govt. Engineering College, Ghanshyampur

### Patrons

Dr. S.S. Barlow, JTE, Chairman, The IEL, Udaipur Local Centre  
 Dr. Rajender Singh Behl, Chairman, CSI, Udaipur Chapter  
 Mrs. Meera Ranawat, Chairperson, NIE Foundation.

### Convener

Dr. P.N. Goswami, Director, TITR, Udaipur, +91-930257500  
 Prof. A.K. Sharma, Vice Principal, TITR, Udaipur +91-9302118805  
 Dr. V.C. Bhat, In-charge, Secretary, The IEL, U.L.C., +91-931408434

### Organizing Committee

#### Chairman

Mr. K.S. Vyas, Director, TITR, Udaipur

#### Organizing Secretary

Dr. Dharm Singh, JTE

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#### Co-ordinators

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#### Members

Mr. Uttam Mohapatra Sharma, Director IIS Indore, Jaipur  
 Mr. Nitish Mathur, CICE System, Ind.  
 Mr. Kalpana Jais, CTAI, Udaipur  
 Mr. Manoj Anand, E-Connect Solution Pvt. Ltd., Udaipur  
 Mr. Gaurav Anand, TITR, Udaipur  
 Mr. Gaurav Kumar, TITR, Udaipur  
 Mr. Hemant Jain, TITR, Udaipur  
 Mr. Kalpana Fatima, TITR, Udaipur  
 Mr. Sandeep Choudhary, TITR, Udaipur  
 Mr. Deepanshu Sharma, TITR, Udaipur  
 Mr. Pratiksha Negi, TITR, Udaipur  
 Mr. Vikash Upadhyay, TITR, Udaipur  
 Mr. Nitin Kishor, TITR, Udaipur  
 Mr. Dravidh Barot, CTAI, Udaipur  
 Mr. Shreshtha Singh Chawhan, CTAI, Udaipur  
 Mr. Rishika Sharma, TITR, Udaipur  
 Mr. K. Anandh Dhanu, CTAI, Udaipur  
 Mr. Gaurav Jain, CTAI, Udaipur

### ESSAY COMPETITION

Subject: World Telecommunication and Information Society Day 2010  
 (WTISD) "Better city, better life with ICTs"

- Students may send Essay (not exceeding 600 words) through:-  
 "Better City, Better Life with ICTs" via Email to: [sp@pratap.ac.in](mailto:sp@pratap.ac.in)
- The World Telecommunication Information and Society Day Essay Competition is open to all students.
- Entrant must be enrolled as a student.
- Entrant must be between the age of 15-18 yrs.
- Only one (1) essay per entrant.
- The essay must be based on the theme: "Better City, Better Life with ICTs"
- The essay must be typed, double-spaced, and in Standard English.  
 Each entry must include:  
 a. Name/Class/Address/Sex/Age of student  
 b. Name of Parent/Guardian  
 c. Contact Information (Address, Email and Telephone number)  
 d. Name of School
- Deadline for receipt of entries is May 18th 2010.
- Essays must be original - Organizers reserves the right to disqualify any entry deemed inappropriate for publication, at their discretion.

#### Submission Information

- Completed essay must be addressed & delivered either via Email or by Post to: Techno India NIE Institute of Technology (TITR), BICO Indore, Kalamandira, Udaipur (RAJ) - E-mail: [sp@pratap.ac.in](mailto:sp@pratap.ac.in)
- All essay and rights to the publication of the essay becomes the property of organizers.
  - Entry (Essay) may be edited, used in whole or in part for promotional or any other purpose, including placing these online (e.g., on [www.technonjr.org](http://www.technonjr.org) or published in magazine) without any additional compensation.
  - Organizer reserves the right to use participants' names in any advertising or promotional materials relating to this competition without further notification, permission, or compensation to the winners.
  - Winners will be selected on or before May 17th 2010, and will be notified via e-mailings.
  - Winning entries will also be posted online at <http://www.technonjr.org> & [www.iesudr.org](http://www.iesudr.org)
  - All winners will be required to submit a self portrait and short biography following notification.
  - Winners must provide proof of identification of their birth
  - By submitting an essay, each student acknowledges his or her understanding of and compliance with these rules.

#### Judging Criteria

Essays will be judged by assessing groups consisting of a judging panel. The decisions of the judges will be final. Essays will be judged over a score of 100 points on the following criteria:

- Content:** Originality: Entries must be the student's own work, in the student's own words, and may include personal experiences and thoughtful observations. Writing must reflect that the student has carefully examined (25 pts).
- Educational/Technical Value:** The essay must provide educational value to judge/audience (20pts).
- Organization/Clarity:** The material is presented in an orderly and logical sequence and must reveal the student's thinking, with an organized presentation and development of ideas (25pts).
- Mechanics:** The essay should contain correct punctuation, spelling, and grammar (20pts).

## CSI-IE(I) National Workshop on Computer Networking (NWCN-2010)



May 17-19, 2010

Organized by

The Computer Society of India  
 Udaipur Chapter

The Institution of Engineers (India)  
 Udaipur Local Centre

Techno India NIE Institute of Technology  
 Udaipur

#### Venue

Techno India NIE Institute of Technology (TITR), Udaipur.  
 PLOT -BPL-7, RICO IND AREA, KALADWAS, UDAIPUR (RAJ.)  
[www.technonjr.org](http://www.technonjr.org) [www.iesudr.org](http://www.iesudr.org)

Dr. Dharm Singh, JTE

(Organizing Secretary)

Department of Computer Science and Engineering  
 College of Technology and Engineering  
 MPQAT, Udaipur (Rajasthan) India  
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### Preamble

Objective of the workshop is computer networking try to make education in computer networking more concrete. Traditional courses in networking do not provide hands-on access to Internet equipment and software. In fact, courses that provide exposure to actual network environments are still mostly absent in an under-graduate curriculum.

The workshop series focus on networking laboratory experiments which are complemented by classroom lectures of Computer Networks. A design of such lab sessions is presented here with the goal to help students in academic studying environment to gain some industry-oriented training and deepen their understanding of networking technologies learned from textbooks and classroom lectures. It includes network - device configuration, network topology design and setup, and network packet analysis and network troubleshooting.

### Objectives

This computer networking hands-on workshop is designed, however, to provide practical tasks, techniques, and information that can be put to use immediately in a real-world environment. The workshop is anticipated to attract a large number of high-quality discussions and stimulate the cutting-edge research discussion among many academic pioneering researchers, scientists, industrial engineers, students from all around the whole country and provide a forum to researchers to:

- Identify and describe the various components of a computer network.
- Explain how the Open Systems Interconnect (OSI) model works to simplify networking.
- Identify and compare the different networking topologies
- Select appropriate cabling and connection options.
- Configure a wireless network using basic security features.
- Compare and contrast peer-to-peer networking with the client-server model.
- Identify the hardware and software components that make up a local area network (LAN).
- Identify the hardware and software components that make up a wide area network (WAN).
- Understand and configure the TCP/IP protocol including planning and implementation.
- Understand the concept of resource sharing and apply it to your network.
- Learn network troubleshooting tools and procedures you can use right away.

The hands-on networking laboratory experiments are designed to include three parts.

#### A. Network-Device Configuration

- Routers and switches, such as Cisco 2811 and Catalyst 2960, can be configured both locally from console port and remotely from telnet. This chapter of the lab experiments includes the following contents:
- Router/switch basic configuration from console port
  - Router/switch basic configuration from console port
  - Network interface configuration

### B. Network Topology Design and Setup

Design and setup a basic local area network (LAN) and a wide area network (WAN) help students to apply their knowledge of networking technologies learned from their lectures

- Network design and setup
- Virtual LAN (VLAN) design and setup
- Routing protocols in computer networking and WAN scenarios

### C. Packet Analysis and Network Troubleshooting

Participants and students gain direct sense of network protocol design and specifications by analyzing captured network packets, and deepening their understanding of what they have learned from troubleshooting network problems

- Network packet capturing application
- Troubleshooting routing protocol

### World Telecom Day

Theme 2010: "Better city, better life with ICTs"

MAY 17th is World Telecom day, realising the importance for a global movement in building up an Information Society and its potential for development. The International Telecommunication Union (ITU) has rightly called upon the telecommunication to celebrate this year's World Telecom day as "World Telecommunication and Information Society Day (WTISD)".

WTISD-2010 will be celebrated with the theme " Better city, better life with ICTs" on 17 May. The WTISD-2010 theme which represents the common wish of all humankind to achieve better living standards in future urban environments. Information and communication technologies (ICTs) play a catalytic role in achieving this goal.

The Essay Competition will be organizing with the theme "Better city, better life with ICTs" for age of 15-18 years students. Deadline for receipt of entries is May 18th, 2010.

The WTISD 2010 celebration will also present "NIE Memorial Award" to high academic achievers and excellent employees in the field of ICTs.

### Registration

All conference delegates and participants are requested to register on or before 17<sup>th</sup> May, 2010. Enclosed registration form duly filled along with registration fees as applicable may be sent in advance to confirm participation.

#### Registration Fee Structure

Category	Registration fee
Member of IEL/CSI	Free
Non-members	Rs. 1000/-
Spouse	Rs. 200/-
Students*	Rs. 500/-
Foreign Participants	US\$ 50

(\*To be verified by head of institution)

#### Accommodation

Paid accommodation can be arranged by the organizers in the government guest houses and hotels in the range of Rs. 100/- to Rs. 3000/- if prior intimation and advance is received.

## CSI-IE(I) National Workshop ON Computer Networking (NWCN- 2010) May 17-19, 2010 Registration Form

Name \_\_\_\_\_  
 Designation \_\_\_\_\_  
 Qualification \_\_\_\_\_  
 Mailing Address \_\_\_\_\_  
 Phone \_\_\_\_\_ Mobile \_\_\_\_\_  
 e-mail \_\_\_\_\_  
 Institution/Organization \_\_\_\_\_

#### Category

- Members of IEL, CSI No. ....  
 Non-members  
 Spouse  
 Student Members  
 Foreign Participants

DD/Cheque No. \_\_\_\_\_ Date \_\_\_\_\_

Bank Name \_\_\_\_\_

Date \_\_\_\_\_

(A) DD or Cheque of pay should be drawn in favour of "Techno India NIE Institute of Technology, Udaipur" payable at Udaipur (RAJ).

(B) Photocopy of the registration form is acceptable

#### Address for correspondence

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