Vision: To develop the department into a full-fledged center of learning in various fields of Electrical and Electronics & Communication Engineering, keeping in view the latest developments and Innovations.

Mission: To carry out research through constant interaction with research organizations and industries and to empower practicing engineers with the state of art technology to meet the growing challenges of the industries.

From the Editors’ Desk

It gives us a great pleasure to present to you the first issue of the newsletter of the Department of Electronics & Communication and Electrical Engineering. The past year was full of various activities by the students and faculties in academic, co-curricular, extracurricular as well as research and development. The theme of this issue is Sustainable Development & Energy Conservation. Hopefully this tentative first step will be the precursor for continuing unsolicited content for the pages of this newsletter.

With best wishes!

Editorial Board

From The Heart Of Chairperson

"The story of civilization is, in a sense, the story of engineering—that long and arduous struggle to make the forces of nature work for man’s good.”

-Lyon Sprague DeCamp

It is great pleasure to know that Department of ECE & EE, Poornima University is bringing out its First Annual Newsletter “POORNIMA ELECTRO-CHRONICAL”. It is an ideal media for showcasing the experiences, achievements, and creativeness of the students and faculties. The vulnerability of modern society is an important issue to our humanity.

The development of sustainability science has become an ultimate goal of modern society. Water, Energy, Waste, Pollution, Mobility and Biodiversity and their impact on food, survival forms the core issues for sustainable development. Fossil fuels—oil, coal etc. are limited, and burning fossil fuels is threatening the Earth’s climate system. We need to find ways to have a truly sustainable energy system, but wind power is too limited, solar power is too expensive, and nuclear power is too dangerous in terms of safety from proliferation and disposal of nuclear waste materials.

Dear engineering students, it will be your innovations and potential to give inputs to deal with future challenges to meet growing demands of rising population. I am sure that you will study with passion and curiosity to acquire the knowledge and skill set to ensure success in your professions.

I congratulate all involved in bringing out this newsletter and wish you all a grand success in your career. Jai Jai Poornima Sansthan! Jai Hind!

Dr. S.M. Seth
(Chairperson, PU)

From The Director General

Today, we have everything, from the core of earth to the space; we have reached everywhere. In spite of having so many achievements, we are still facing the big and challenging problem of energy crisis. But problems and challenges hide a great opportunity to show your potential by overcoming the existing situations. In the upcoming time students have great chance to show their caliber in this field. I personally think this is the best career option for students to come up with their uniqueness and ideas.

I congratulate all the members of editorial board and students for their commitment and effort in bringing out this newsletter. “My best wishes for your journey at Poornima”.

Mr. Shashikant Singhi
(Director General, PF)
The president Opines

I am glad to learn that department of ECE & EE, SET of Poornima University is releasing its newsletter “POORNIMA ELECTRO-CHRONICAL”. As we all know that newsletter is the most lucid medium of expression, so, I advice all my students to develop the power of expression and developing writing skills.

It is also heartening to note that the theme of the newsletter is related to sustainable development which is fulfilling the needs of the presenting generation without compromising the requirements of the future generations. This also holds true for meeting out the challenge of energy crises. I further suggest my students to make proper and appropriate use of energy resources and flourish the light of saving energy amongst the people.

My heartiest congratulations to the department of ECE & EE, SET for their commendable job.

Dr. K.K.S. Bhatia
(President, PU)

The Provost Expresses

“Any sufficiently advance technology is indistinguishable from magic”

If we go back to few decades there was nothing at all- no Light, no technology. But today, we are enjoying the fruit of technology which is the outcome of efforts and dedication of many brilliant minds.

But, as we know there is a limit of everything and if we continue to use finite resources and depend on it only, it will be difficult to rework the energy resources all over the world. Students, you belong to the future generation and you need to take care for tomorrow. Therefore, I suggest you all to save energy and make maximum use of renewable resources.

I congratulate the department of ECE & EE, for releasing their first newsletter and special appreciation for the faculty and student members who have put all their efforts to make it a success.

“Save water, Save Electricity, Save Life”

Dr. Manoj Gupta
(Provost, PU)

The HOD Speaks

It’s a great pleasure for me to convey my message through this news letter to all faculties, staff and students of ECE & EE department. I want to greet all newly joined faculties and staff members who are working hard to keep up moral of all the students of ECE & EE Department.

The way you take up the work and finish, shows your potential and concern towards the work. It is a very good saying that- “When you check your limit, you succeed”. It is simply your will to do a task or work, which matters. Never think that anything is impossible, rather think that everything is possible, the need is of your concern & commitment.

A quotation for all my budding technocrats …..

“You gain strength, courage and confidence by every experience in which you really stop to look fear in the face.” – Eleanor Roosevelt

Mr. Gaurav Soni
(HOD-ECE & EE)

Strength Of The Department

Faculty Staff
1. Mr. Gaurav Soni (H.O.D)
2. Dr. K.C. Roy
3. Mr. Sanjay Sharma
4. Mr. Surendra Sharma
5. Mrs. Sweta Tripathi
6. Mr. Pankaj Gakhar
7. Mr. Prashant Hemrajani
8. Ms. Deepika Jangid
9. Ms. Meenu Kumari
10. Mr. Ashish Raj Sinha
11. Mr. Anmol Chaturvedi

Technical Staff
1. Mrs. Rajshree Pareek
2. Ms. Ekta Agarwal
3. Mohd. Arif
4. Mr. Gokhlender Singh

The idea sustainability has three pillars – environmental, social and techno- economic.
**ORIENTATION PROGRAM**

A 3 day Orientation program was held in the department of ECE & EE from 1st July to 3rd July 2013 for the II Year students.

The first day started with lightening of lamp to Goddess Saraswati followed by a motivational talk by Dr. Manoj Gupta, Provost-SET, Poornima University. The departmental presentation was given by Mr. Gaurav Soni. Various activities were organized during these days like general knowledge Quiz, Essay writing competition etc. Motivational documentaries were also shown to the students for their enlightenment.

**TECHNICAL WORKSHOPS**

- To create interest in project making & impart basic knowledge of robotics, the department organized a 6-day technical workshop on Robotics from 27th August to 2nd September 2013 at Poornima University. The topics covered in this workshop were basics of microprocessors and microcontroller, embedded system and robotics.

- The department also organized a 6-day workshop on PLC & SCADA from 27th August to 2nd September 2013 at Poornima University.

- Workshop of SPSS tool was held at Poornima University on 29th August 2013. M.Tech faculties and M.Tech students attended this workshop. Descriptive statistics, Bivariate statistics, Prediction for numerical outcomes & identifying groups were the main highlights of the workshop.

**PRAYOGAM — 2K13**

The project exhibition "Prayogam 2013" was held at Poornima University from 11th to 13th November 2013. Students from various departments of Poornima University and Poornima Group of Colleges participated in this event. Total 128 Projects were displayed, out of which 15 projects were made by the students of Poornima University. 2000 students from various schools came to see the displayed projects. Project coordinators for ECE & EE were Mr. Surendra Sharma, Mr. Anmol Chaturvedi and Mr. Sushil Jain.

**LAKSHYA — 2K13**

Annual Sports and Cultural Festival “Lakshya-2013” was organized at University Level from 16th October 2013 to 17th October 2013. Event started with Inaugural Ceremony where Chief Guest, Sh. Rajyavardhan Singh Rathore (renowned sportsperson for shooting), Guest of Honour, Ms. Surbhi Mishra (star of Indian Squash), Sh. R.K Agarwal, Advisor, Poornima Foundation (PF), Dr. K.K.S Bhatia, President, Poornima University, Sh. Shashikant Singh, Director-General, Poornima Foundation announced the commencement of event by lighting the lamps.

Many outdoor & Indoor games were organized like basket ball, Volley ball, Football, Long-jump, 400 m race, Table tennis, Carom etc. To encourage artistic skill among students various completion like Heena creation, Rangoli making, Sketching etc. were also organized during these two days. The department organized three indoor sports events— Chess, Carrom and Table-Tennis.
Celebrations

- 67th Independence Day Celebrated at Poornima University on 15th August with great enthusiasm. Dr. K.K.S Bhatia hoisted the National Flag. Various activities like march past, group dance, singing and sports were held and many students participated in it.
- Department celebrated Teacher’s Day on 5th September by organizing two hours activities of quiz contest and paragraph writing. Students thanked and appreciated the teachers for their efforts by organizing a small get-together for the teacher.
- In remembrance of Sir Mokshagundam Visvesvaraya, the department celebrated “Engineers Day” on 14th September 2013. Extempore competition on “Frugal Engineering” and an essay competition on the topic “Role of Engineers in building of Nation” was held.
- To pay tribute to The Father of the Nation, Mahatma Gandhi, Department celebrated Gandhi Jayanti on 2nd October, 2013. Department organized Quiz contest on this occasion.

Extra-Curricular Activities

- 6 students of EE-B participated in Case study competition held at Poddar Group of Institutions.
- 13 students from ECE department and 3 students from EE participated in the IEEE National workshop on Advance In Planar Antenna held at Maharshi Arvind Institute of Engineering & Technology, Jaipur from 31st August 2013 to 1st Sep 2013.
- 10 students of ECE department attended the National Seminar on Advancement in Wireless & Optical Applications at PIET, Jaipur on 18th Jan 2014.

Achievements

Winners in G. K Quiz held during Orientation Program (1st July-3rd July 2013)
I — Rahul Jain (ECE) II — Rishabh Kashyap (ECE)
I — Anmol Rathore (EE-A) II — Imran Mansury (EE-A)
I — Suresh (EE-B) II — Rohit Kumar Meena (EE-B)

Winners in Essay Writing Competition held during Orientation Program
I — Apoorva Panigrahi (ECE)
I — Himanshu Bhel (EE-A)
I — Vishnu Jakhar (EE-B)

Winners in G. K Quiz held on Teacher’s Day Celebration (5th Sept. 2013)
I — Gulzar Khan (ECE)
II — Neha Patidar (ECE)
III — Abhishek Tiwari (EE-A)

Winners in Essay Competition held on Teacher’s Day Celebration
I — Rakhi Sharma (ECE)
II — Anuj Dixit (ECE)
III — Renu (EE-B)

Winners in Quiz & Paragraph Writing held on Gandhi Jayanti (2nd Oct. 2013)
I — Rahul Jain (ECE) II — Jaya Sharma (ECE)
I — Gaurav Kr. Saini (EE-A) II — Disha Shukla (EE-A)
I — Swadhin Mandal (EE-B) II — Shubhank Vyas (EE-B)

Meeting the increasing global demand for energy is one of the key challenges for sustainable development.
**Department Initiatives**

- **Project** - To promote research and development activities at Poornima University, project based on Wireless Sensor Network (WSN) software and hardware (iSense classroom kits) is being completed. A team of selected M.Tech & B.Tech students was formed for the same.

- **Support Classes** - To help the students who got back in II semester, support classes were organized by the department from 9th to 16th December, 2013.

- **Problem Solving Classes** - To help students to solve their difficulties regarding any subject or topic, problem solving classes were organized from 14th to 21st November 2013.

**Workshops Attended By Faculties**

- **SPSS Tool** (29th Aug. 2013) - Mrs. Sweta Tripathi, Mr. Pankaj Gakhar

- **PLC & SCADA** (30th Nov. 2013) - Mr. Pankaj Gakhar

- **ISENSE-Wireless Sensor Network** (11th-12th Oct. 2013) - Mr. Gaurav Soni, Mrs. Sweta Tripathi

- **Research methodology** (22nd-23rd Nov. 2013) - Mr. Pankaj Gakhar, Mr. Gaurav Soni, Dr. K.C Roy, Mr. Sanjay Sharma

- **Exploring Engineering Education Research** (20th-22nd Dec. 2013) - Mr. Gaurav Soni

- **Mission10X** (18th-20th Dec. 2013) - Mrs. Sweta Tripathi

- **Principles & Practice of learning for effective teaching** (20th-22nd Dec. 2013) - Mr. Gaurav Soni

**Special Lectures & Expert Talks**

- **Mr. Ashok Agarwal**, Associate Professor, MNIT, Jaipur, delivered lecture on the topic Transients in Circuit Analysis subject on 28th October, 2013

- **Dr. Ruchika Mehta**, Associate Professor, GIT, Jaipur, delivered lecture on the topic Numerical Analysis in Mathematics subject on 28th October, 2013

- **Dr. Jugal Kishore Prajapat**, Professor, Central University, Kishangarh delivered a lecture on Bilinear Transformation in Mathematics subject on 26th October, 2013

- **Mr. Sharad Pustake**, Associate and In-charge, e-Governance at Nagpur Municipal Corporation delivered an expert talk on the usefulness of SCADA and he explained the definition of SMART (Sustainable, Manageable, Able, Radiant, Timely) on 19th July, 2013

**University Results**

<table>
<thead>
<tr>
<th>Semester</th>
<th>ECE</th>
<th>EE</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Semester</td>
<td>69.8%</td>
<td>61.4%</td>
</tr>
<tr>
<td>II Semester</td>
<td>81.1%</td>
<td>64.54%</td>
</tr>
<tr>
<td>III Semester</td>
<td>67%</td>
<td>61%</td>
</tr>
</tbody>
</table>

**III Semester Toppers**

- **ECE**
  1. Ankit Kr. Vyas (9.59)
  2. Harshit Soni (9.34)
  3. Pooja (9.33)
  4. Rahul Jain (8.95)
  5. Ritesh Raj (8.77)

- **EE-A**
  1. Jaya Malav (9.07)
  2. Ajay Sharma (8.93)
  3. Himanshu Gupta (8.52)
  4. Ashish Patidar (8.34)
  5. Anjali Meena (8.31)

- **EE-B**
  1. Renu (9.61)
  2. Suresh (9.2)
  3. Vertika Sankhla (8.89)
  4. Samay Singh Gurjar (8.87)
  5. Pankaj Kr. Agarwal (8.78)

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I’ve missed more than 9000 shots in my career. I’ve lost almost 300 games. 26 times I’ve been trusted to take the game winning shot and missed. I’ve failed over and over and over again in my life. And that is why I succeed.

- Michael Jordan

The electronic engineering has made great strides in reducing the demands on the Earth’s resources in mobile phone manufacturing.
Industrial Training & Visit

- Selected students from ECE & EE department were given an opportunity to visit Barefoot College, Tilonia, Ajmer District. The aim of visit was to see and learn how to achieve academic excellence through innovative technology and methodology such as Solar Plants, Biogas Plants, Drip Irrigation etc. The Barefoot College is a non-governmental organization that has been providing basic services and solutions to problems in rural communities for more than 40 years, with the objective of making them self-sufficient and sustainable. The college has trained more than 15,000 women in jobs that made them self-dependent. The students also learned how to work as a team altogether. The Faculty Coordinator for the visit was Mr. Pankaj Gakhar & Mr. Sushil Jain.

Poornima Certificate Course (PCC)

To impart training of latest trends and technology commonly employed in current scenario & to enhance the employability of the students the department is running 3 modules under professional certificate courses. These are:
1. MATLAB and its applications
2. Real life aspects of electrical and electronics engineering.
3. Elementary course on embedded system.

Raman Lab

Project lab is an initiation by the department to encourage the students for research & innovation. Facilities like circuit simulation, testing & trouble shooting & PCB manufacturing are available in this lab. Lab is well structured with many sophisticated instruments.

The coordinators of Raman Lab are-
1. Purushottam Kumawat (M.Tech Scholar)
2. Rishika Sethi (M.Tech Scholar)

Industrial Training & Visit

- List of students who were sent by the University on Short Term Industrial Training, during Semester Break (9th-24th December 2013)

**ECE (Enertrak Metering)**
1. Pooja
2. Gulzar Khan
3. Jaya Sharma
4. Kunal Saini
5. Surbhi Gupta
6. Veenu Chainani
7. Jyoti Vasuja

**EE (Radetron)**
1. Anurag Shrivastav
2. Sandeep Singh
3. Aman Singhal
4. Suraj Kr. Jangid
5. Arjun Kr. Gupta

- Selected students from ECE & EE department were given an opportunity to visit Barefoot College, Tilonia, Ajmer District. The aim of visit was to see and learn how to achieve academic excellence through innovative technology and methodology such as Solar Plants, Biogas Plants, Drip Irrigation etc. The Barefoot College is a non-governmental organization that has been providing basic services and solutions to problems in rural communities for more than 40 years, with the objective of making them self-sufficient and sustainable. The college has trained more than 15,000 women in jobs that made them self-dependent. The students also learned how to work as a team altogether. The Faculty Coordinator for the visit was Mr. Pankaj Gakhar & Mr. Sushil Jain.

Sustainable development approach is creative, innovative and broad, and requires an approach to decision making that strikes a balance between environmental, social and economic factors.
Challenge yourself with something you know you could never do, and what you'll find is that you can overcome anything.  

Anonymous

I don't measure a man’s success by how high he climbs but how high he bounces when he hits the bottom.  

George S. Patton

FRUGAL ENGINEERING

Frugal engineering is the process of reducing the complexity and cost of a good and its production. Usually this refers to removing nonessential features from a durable good, such as a car or phone, in order to sell it in developing countries. Some Frugal Innovations are—

- The Mitticool fridge was developed and launched by an Indian engineer, Mansukhbhai Prajapati in 2006. Made entirely from clay, the device costs roughly $50 and uses no electrical power. It can keep items of food fresh for up to five days and has been a valuable addition to rural communities in India.

- In consultation with local communities, Frugal Digital developed Darshana, a low-cost lunch box projector for use in schools. The projector is fitted with a small USB 2.0 port and uses a phone touch screen as a track pad.

- Mehtar Hussain and Mushtaq Ahmed from Assam built a bamboo windmill for around $100 to pump water from a small paddy field. The invention has now been adopted by Gujarati salt workers, who are some of the poorest people in the state, to pump brine water. Petrol-powered pumps consume huge amounts of fuel, at a cost of around $1,000 each year. The wind-powered pump runs at a fraction of the cost.

5-PRINCIPLES OF ENGINEERING FOR SUSTAINABLE DEVELOPMENT

- If polluters must pollute... then they must pay as well.
- Beware cost reductions that masquerade as value engineering.
- Plan and manage effectively.
- Make sure you know the needs and wants.
- Innovate and be creative.

For Sustainable Development we need to look beyond your own locality & immediate future and identify the potential positive and negative impacts of our proposed actions. Always seek to maximize the positive.
We as engineers should drive down the adverse environmental & social aspects of engineered products, services and infrastructure.

ALWAYS BECOME A BEAUTIFUL THINKER

Always become a beautiful thinker. Commit to making each of your thoughts a thinking of beauty. Devote yourself and expand your ideas innovatively in a beautiful manner. To get to world class, it is absolutely essential to become an excellent innovator. Relentlessly making things better and passionately discovering new ways to add value, work smarter and move faster are core creative traits that the best in business live by. And to be astonishingly creative and generate those big ideas that catapult you to your highest level. You can become what you think about. And the thoughts you use become self-fulfilling prophecies. Expect extraordinary things to unfold for you, and they will.

British prime minister Benjamin Disraeli said: "you will never go any higher than you thinking". As a human being you will never act in a way bigger than your thoughts. Dream big and your behavior will fellow. Think small and you will play small. Think you deserve best and your action will then drive better result. Expect to be world class in your career or within your community and that brilliant thinking will shape the way you work as well as the way you live. And that exceptional conduct will drive exceptional outcome.

Your thoughts do shape your reality. Your thinking does from your world. What you focus on truly will expand. And what you dwell upon will most definitely determine your destiny.

- Jaya Kumari Malav (EE-A)

8 REASONS WHY COLLEGE IS THE BEST TIME TO LAUNCH A START-UP

‘College time is fun time’- a notion that many entrepreneurs are proving wrong. They launch their startup during their college and by the time they graduate, they are already owners of small to medium sized businesses. Here are eight reasons that tell you why you should launch your startup during college.

1. Free resources
There’s no need for you to rent any office space. Your college, classroom or library is a great place to hold meetings. You also have free access to the internet, computer and the library, not to mention all kinds of valuable software. Besides this, professors too, are very helpful to students who take up an initiative to do something. They will be experts in different fields and you can take advantage of their knowledge to help your business grow.

2. Mindset
College is a time when you are at your creative best. You have nothing to lose so you can feel free to experiment with ideas that might seem crazy to others but can launch you as the next Steve Jobs. Students lack the cynicism and caution of older people and hence are more open to new ideas and concepts. There is a curiosity and a thirst for knowledge that is invaluable for any start-up.

3. Expectations
During college, all that your parents and professors want you to do is to score well and pass your exams. If you launch a startup, they do not really expect you to become a millionaire overnight. This gives you more room for error. If you are unsuccessful, you do not feel burdened with their expectations. You still have the drive to give it another shot.

4. No salary tension
As a startup, you would not have too much capital to hire employees. However, in college, there is no dearth of people who are looking to do something constructive. You can offer internships to people and give people work experience certificates. You can find your future employees right in your campus. You are not doing it for the money so you’re more likely to succeed.

5. Satisfaction
Most of your classmates will graduate with a degree; but you will graduate with hands on experience in running a business. Going that extra mile will be a little difficult as first, but once you see your business growing, you will definitely not regret your decision.

6. Teammates
If you have a talented bunch of friends who are experts in their own fields, then you can launch a startup together as a group. College friendships last the longest and if you launch a startup with them, you can be teammates for life. Your friends are your teammates!

7. Quality feedback for free
If you are developing a new product or service, you obviously need people to test it and review it, before you start production. Your batch mates can tell you what they think about the product, its overall design, usefulness and the amount of money they can afford to pay for it. They will also not hesitate to tell you the negative aspects and will never shower empty praises. Your professors, on the other hand, can give you feedback about its technical aspects.
8. Publicity

Everyone loves stories of how a young college kid has made it big in the industry. You will definitely get lots of free coverage because everybody loves to hear about a youngster who has succeeded beyond their wildest imagination.

So, get innovating!

- Mr. Gaurav Soni

PUZZLES FOR FUN

1. A beggar’s brother died, But the man who died had no brother How could this be possible?

2. As tall as a tree, as small as a bug, As fast as an eagle, as slow as a slug. Many times in front or behind but never on top, always aligned. What is this?

3. How can a man go eight days without sleep?

4. Using eight eights and addition only, can you make 1000?

5. Mary's mothers fourth child was Mary herself.

SUDOKU

ANSWERS

1. The beggar is a woman 2. Shadow 3. He's awake the day, sleeps at night 4. 888+88+8+8+8=1000 5. Mary's mothers fourth child was Mary herself.
50 Companies Of Electrical Engineering

1. BHEL
2. BPCL
3. ONGC
4. GAIL
5. NTPC
6. HPCL
7. IOCL
8. SAIL
9. DRDO
10. Havells India Limited
11. Schneider
12. ITC
13. Bharat Earth Movers
14. Bajaj Electicals
15. Allen Bradly
16. Kirloskar
17. L&T Engg
18. NHPC
19. Suzlon Energy Ltd.
20. Reliance Energy
21. Voltas Limited
22. TOYO Engineering India Ltd.
23. DMRC
24. Blue Star Design & Engg India Ltd
25. Honeywell
26. Aditya Birla Group
27. Fichtner
28. IG Petrochemicals
29. Jindal Steel
30. Duke Energy
31. Anchor Electronics Pvt. Ltd.
32. Tata Motors
33. Siemens Power
34. Power Grid Corporation of India
35. PRDC Infotech
36. Usha Martin
37. Mitsubishi Electric
38. Eveready Industries India Ltd.
39. Lloyd Electric & Engg Ltd
40. Nippo Batteries
41. Paramount Cables
42. National Electrical Industries
43. National Wind & Power Corp.
44. Aksh Optifiber Ltd.
45. Adani Power Ltd.
46. NEPC India Ltd.
47. Rajasthan Atomic Power Station
48. Essar Power Ltd.
49. Birla Power Solutions Ltd.
50. HPL Electric & Power

50 Companies Of Electronics & Communication Engineering

1. BSNL
2. Bharat Electronics Ltd (BEL)
3. Electronics Corporation of India Limited (ECIL)
4. DRDO
5. Bosch India
6. Cadence Design Systems
7. Bharti Airtel Limited
8. Mentor Graphics Corp.
9. HP India
10. HCL Info Systems Ltd
11. Intel
12. Reliance Communications Ltd
13. Philips Electronics
14. Samsung
15. Videocon Industries
16. LG Electronics
17. Sony India Limited
18. Idea Cellular Ltd
19. Synopsys
20. MTNL
21. VSNL
22. Freescale Semiconductor Inc.
23. Astra Microwave Products Ltd.
24. Texas Instruments
25. Canon
27. Pyrotech Electronics Pvt. Ltd.
28. Panasonic
29. Excide Industries
30. Bharti Teletech
31. Siemens Ltd
32. Cable Corporation of India Ltd
33. Birla Ericsson Optical Ltd
34. Aircel
35. HFCL Infotel Ltd
36. Motorola
37. Nokia
38. Qualcomm India
39. Instrumentation Ltd.
40. RPG Cables Ltd
41. Secure Meters Ltd.
42. CDOT
43. GTL Limited
44. Eveready Industries
45. Honeywell Automation
46. Supertron Electronics Ltd.
47. Zensar Technologies
49. Amara Raja Batteries Ltd
50. Tech Mahindra Ltd

Important Journals, Magazines & Websites

Journals
- IEEE
- ACM
- ISTE
- Springer
- Elsevier
- Science Direct
- Lighting India
- IEEMA
- IET

Magazines
- Electronics for you
- Digit
- EDN
- ESD
- PC Quest
- Time
- Electronics Maker
- Competition Success Review
- Electrical Maker

Websites
- ocw.mit.edu
- khanacademy.com
- nptel.ac.in
- technologystudent.com
- educypedia.be
- ebooklink.net
- howstuffworks.com
- avaxhome.ws
- alldatasheet.com

JAI JAI POORNIMA SANSTHAN! JAI HIND!