



JODHPUR INSTITUTE OF  
ENGINEERING AND TECHNOLOGY

# ELECTRONIKA

Dept. of Electronics & Communication Engineering  
Issue - 11 | December, 2016 | Half Yearly Newsletter



**JIET**

Group of Institutions

[www.jietjodhpur.ac.in](http://www.jietjodhpur.ac.in)

# VISION

To become a globally recognized institution in technical and professional education, and to provide career and research oriented, value based education to serve the society.

# MISSION

**To develop** a holistic educational approach that blends fundamentals and hands-on experience.

**To build** a diverse academic environment that fosters problem solving ability, team spirit, leadership, and commitment towards quality.

**To promote** exchange of ideas, innovation, research and entrepreneurial skills so as to face global challenges.

**To inculcate** ethical values and sense of responsibility towards society.



# PROGRAMME EDUCATIONAL OBJECTIVES

Graduates of Electronics and Communication Engineering Programme at JIET should be able to utilize the knowledge gained from their academic program:

- I. Preparation- To prepare the students with the knowledge and skills to compete in their fields as well as to succeed in their career and to contribute effectively to the engineering profession.
- II. Core-Competence -To enrich student's intellectual skills to analyze and solve electronics circuits as well as problems using basic fundamentals, synthesis of circuits, design and experimentation support.
- III. Breadth-The program is designed to impart education moving from basic electronics and communication system to the advanced fields such as digital signal processing, VLSI and embedded systems, so as to comprehend, analyze, apply and innovate solutions for real life complexities.
- IV. Professionalism-To make understand the human values and develop the skills, such as professional ethics, effective oral and written communication and teamwork through industry oriented training programs and projects.
- V. Learning Environment-Engage in the process of lifelong learning through motivation, creation of self learning environment and exposure to emerging fields.

# PROGRAMME OUTCOMES

- (a) Apply knowledge of Mathematics, Science and Engineering to solve the complex engineering problems in analog and digital electronic systems.
- (b) An ability to design electronic circuits, communication systems, conduct experiments, analyze and process data to report results.
- (c) An ability to design digital, analog and embedded systems to meet the specific requirements.
- (d) An ability to function on multi-disciplinary areas.
- (e) Work as a member of project team to find successful design solutions to the problems related to electronics and communication systems.
- (f) An ability to use modern tools to analyze the performance of communication systems by modeling and simulation.
- (g) An ability to understand and demonstrate professional and ethical responsibilities.
- (h) An ability to communicate effectively in both verbal and written form.
- (i) Confidence to apply engineering in global and societal contexts and develop eco friendly products and solutions with awareness of contemporary issues.
- (j) An ability to clearly understand the value of lifelong learning and self-education.
- (k) An ability to participate and succeed in competitive examinations like CAT, GRE, GATE, IES etc.

# YOUR OPINION MATTERS...

I am happy to learn that the department of Electronics & Communication, JIET is ready with its 11th edition of the E- biannual newsletter "Electronika". Such a literary cum technical effort brings the creativity and managerial skills of both the students and faculty members to the surface.

The newsletter has always been a wonderful, well documented and meticulous compilation of the department's activities and I am sure the eleventh edition of "Electronika" is no exception to that.

Having gone through the various issues, I wish to congratulate in advance, the editorial board for their successful venture



**Prof. O. P. Vyas**  
Dean Engg., JIET



**Prof. K. K. Arora**  
Head, M.Tech, JIET

It is my proud privilege to pen down the message for eleventh issue of "ELECTRONIKA", the biannual newsletter of Electronics and Communication Engineering department. The greatest asset of the department is its highly motivated and learned faculty. The available diversity of expertise of the faculty with the support of the other staff prepares the students to work in global multicultural environment. We hope that we will continue to deliver our best to serve the society and mankind. I appreciate the spirited efforts of editorial board and members of the department for presenting "ELECTRONIKA" in such a cogent form.

"Education is the manifestation of the perfection already in man and it is required so that one's character is formed, strength of mind is increased, the intellect is expanded and by which one can stand on one's own feet".

- Swami Vivekananda

Globalization is bringing competitiveness in every domain. Engineers have to fit into the requirements of companies that recruit across the globe. The Department of Electronics and Communication Engineering of JIET is leading the future by equipping students with the skill set that is required in the industry. All the members of this department and the college are working in this direction to produce highly skilled engineers to assist the nation in its technological development. The department has been consistently working towards the goal to produce highly skilled and scientifically oriented man-power through flexible adaptive and progressive training programs along with cohesive interaction with research organizations, academicians and industries.



**Prof. (Dr.) Hemant Purohit**  
Head, ECE Dept., JIET





## FROM THE EDITOR'S DESK

"We are hard-wired for creativity. It is just a matter of honing it to a specific format. And, it is perhaps one of the most rewarding feelings you can have — giving life to something original and to share with the world purely for intrinsic value."

Dear Readers,

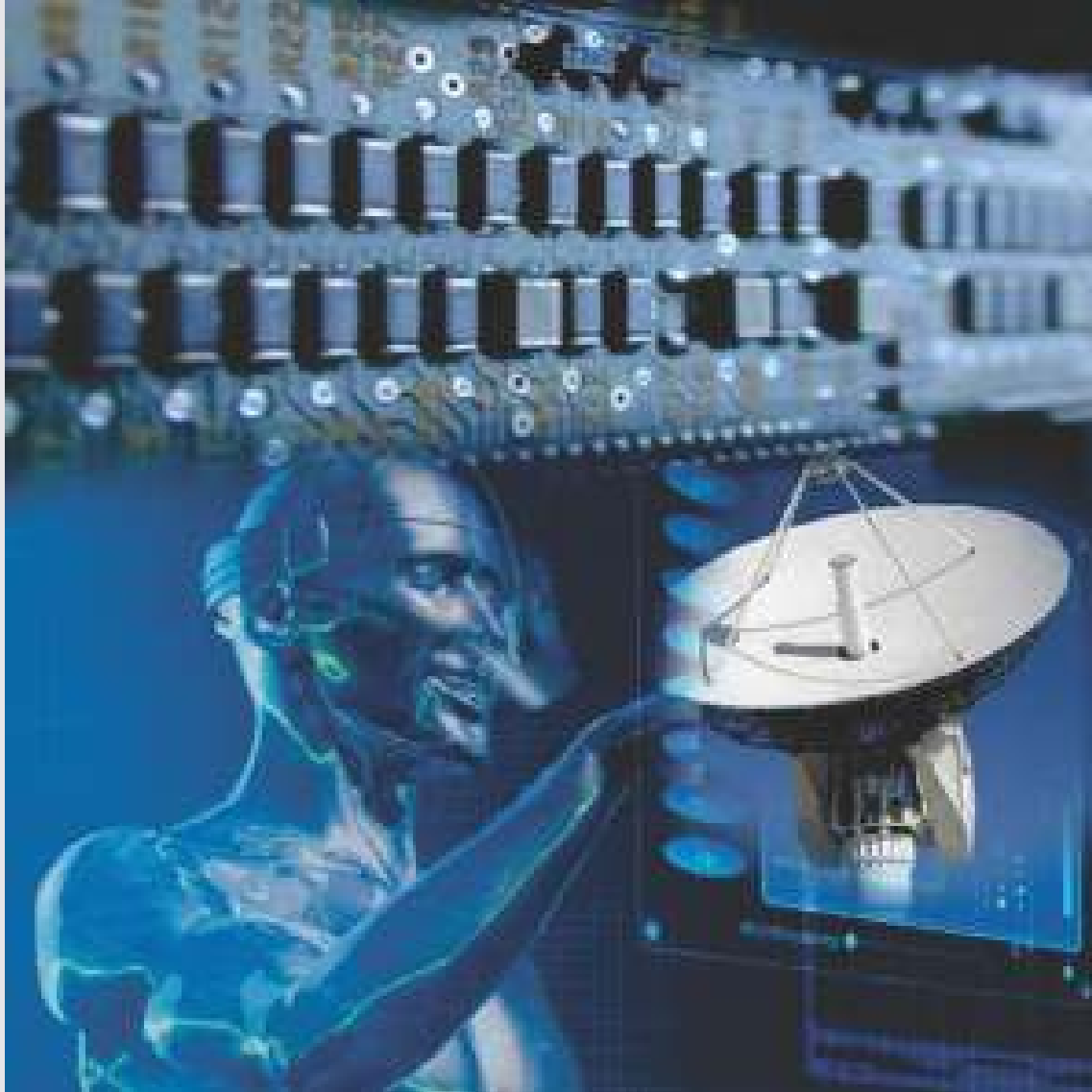
This is the eleventh issue of Bi-annual newsletter ELECTRONIKA. Reading is a great platform for opening up to one another and a guaranteed way to connect with like-minded people & young minds with creative leadership and intelligence. This bi-annual newsletter is one such cherished work that has its roots in the persuasion. It contains snapshots of the various activities and achievements of all associated with the ECE, department. Proper communication plays a vital role in an institution's development. This newsletter serves to reinforce and allows increased awareness, improved interaction and integration among all of us. Usually we fail to appreciate the good deeds of many people and activities that happen around us. It could all change if we just pause to think of what is our contribution to the society from which we have been gifted with this blessed life. This newsletter is a medium to provide proper acknowledgement about the activities and it is a commutative effect of all Faculty staff and students. Hopefully you all enjoy in reading.



Komal Sharma  
Asst. Prof, Dept. of ECE, JIET



Swati Joshi  
Asst. Prof, Dept. of ECE, JIET



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# EXPERT LECTURES & GUEST LECTURES

## Guest Lectures (Experts from outside JGI)

- Prof. (Dr.) Sandip Mehta (Dean of Engineering JIETCOE) delivered a lecture on "Importance of Positive Real Function" to the II year III semester students on 17th November 2016 at LT-9.
- Dr. Yogesh Sharma (Associate prof., Dept. of Mathematics, JNU) delivered a lecture on "Complex Variable" to II Year III semester Students on 12 November 2016 at Civil Conference hall.
- Ms. Purneshwari Varshney (Assoc. Professor, ECE-COE), delivered a lecture on "Stick Diagram and Layout" to the IV Year ECE students on 8th October 2016.
- Ms. Geetika Mathur (Teacher in Shantiniketan school) delivered a lecture on "Antenna Arrays, Fundamentals of Antenna types" in "Antenna Wave Propagation" to Final year students.

## Expert Lectures (Experts From Within JGI)

- Prof. K. K. Arora (HOD, M.Tech) delivered an expert lecture on "Human Body Subsystem" to the III Year students on 9th August 2016.
- Prof. K. K. Arora (HOD, M.Tech, Dept. of ECE, JIET) delivered an expert lecture on "Traffic Static Management" to the III year students on 15th October 2016.
- Prof. (Dr.) Hemant Purohit (HOD, ECE), delivered an expert lecture on "Addressing Modes in 8086 Microprocessor" to the Final Year students on 30 August 2016.
- Prof. (Dr.) Hemant Purohit (HOD, ECE) delivered an expert lecture on "DC Analysis" to the II Year students on 22nd October 2016.
- Prof. (Dr.) Hemant Purohit (HOD, B.Tech, Dept. of ECE, JIET) delivered an expert lecture on "FET Construction, Working & Analysis" to the III year students on 3rd November 2016.
- Prof. (Dr.) Hemant Purohit (HOD, ECE) delivered an expert lecture on "DC Analysis of FET" to the II Year students on 11th November 2016.
- Ms. Aisha Jangid (Asst. Prof. (Sr.), Dy.H.O.D., ECE(II Shift)), delivered an expert lecture on "MOSFET Working & Construction" to II year III semester students on 18th November 2016 at LT-9.
- Prof. Sanjay Bhandari (Assoc. Professor, ECE and Head, Training Cell) delivered an expert lecture on "Sampling Theorem" to the III Year ECE students on 14th and 15th October, 2016
- Mr. Manish Gehlot (Asst. Prof. (Sr.) Dept. of IT (JIET)) delivered an expert lecture on "Complexity and Asymptotic Notation" to the II Year students on 22nd August 2016 in JIET Conference Hall.
- Prof Hemant Jain (Asst. Prof., Dept of ECE, JIETCOE) delivered an expert lecture on "Different Types of Antennas" in "Antenna Wave Propagation" to Final year students.
- Prof. Piyush Vyas (Asst. Prof.) delivered two expert lecture on "Smith Chart and Its Applications" in "Telecommunication Engineering" to III year students.
- Mr. Harish Kumar Khyani (Assoc. Prof. and Dy-HOD, II Shift. Dept. of EE, JIET), delivered an expert lecture on "Importance of Real Function in Network Synthesis" to the II Year students on 12th October 2016.
- Mr. Akhileshwar Mathur (Asst. Professor, I Year Department (Chemistry), JIET) delivered an expert lecture on "Application of Nano Technology and Nano Tubes" to the II Year students on 13th and 20th October 2016.
- Ms. Purneshwari Varshney (Assoc. Professor, ECE, JIETCOE), delivered an expert lecture on "Stick Diagram and Layout" to the IV Year ECE students on 8th October 2016.
- Ms. Hansa Mehra (Assoc. Professor, ECE) delivered an expert lecture on "Fast Fourier Transform Technique" to the IV Year ECE students on 8th October 2016
- Mr. Jitendra Jangid (Assoc. Professor, ECE) delivered an expert lecture on "Image Compression and its coding techniques" to the IV Year ECE students on 8th October 2016.
- Mr. Pradeep Kumar Sharma (Assistant Professor, ECE), delivered an expert lecture on "Filter Design Technique" to the IV Year ECE students on 8th October 2016. He delivered an expert lecture on "Monolithic IC and Fabrication Process" to the III Year ECE students on 14th October 2016.
- Mr. Bablu Kumar Singh (Assist. Professor (Sr.), ECE), delivered an expert lecture on "Thermal Noise" to the III Year ECE students on 17th October 2016.
- Ms. Hansa Mehra (Prof. ECE), delivered an expert lecture on "PCB Wizard" to II year III semester students on 12th November 2016 at Workshop Lab.
- Dr. Sandip Mehta (Dean of Engineering JIETCOE) delivered an expert lecture on "Importance of Positive Real Function" to the II year III semester students on 17th November 2016 at LT-9.

# EVENTS ORGANIZED:

## ORIENTATION PROGRAM (DEPT. OF ECE (JIET))

A three day orientation program for II, III and Final Year students was organized in Department of Electronics and Communication(JIET) (28th July-30th July 2016) in order to brief them about the new session and upcoming career options in the field of ECE. Prof.(Dr.) Hemant Purohit (Head) and Mrs.Laxmi Choudhary (Dy.H.O.D (I Shift))and Prof. Aisha Jangid (Dy.H.O.D (II Shift)) were the keynote speakers. Various faculty members delivered a zero lecture of their subject explaining the importance of subject in core field. An expert lecture was delivered by the alumnus Mr.Gajendra Tripathi on various fields of carrer advancement and future scope in their core field to the final year students. A session on "Training and Placement" was organized by Mr. Vishwajeet Mishra(Asst. Prof.)and Mr. Brijesh Kumar (Asst. Prof.) for the Final year students.

Ms. Geetika Mathur ( Teacher in Shantiniketan school) delivered a lecture on "Antenna Arrays, Fundamentals of Antenna types" in "Antenna Wave Propagation" to Final year students.

## FACULTY DEVELOPMENT PROGRAM - I 6

2016 (8TH JULY-22ND JULY)

The details are as follows:

8th July:

- Motivational presentation by Prof. (Dr.) HemantPurohit (HOD, ECE).
- An expert lecture which was given by Mr. GajendraTripathi( Alumnus of JIET) on "ERP, AR (Augmented Reality) & Solar Charger".

9th July: lectures were delivered by Ms. LaxmiChoudhary(Dy. HOD (I Shift) (JIET)), Mr. Piyush Vyas(Sr. Asst. Prof (JIET)), Mr.Vishwajeet Mishra(Asst.Prof. (JIET)), Mr. Kapil Dave (Asst. Prof. (Sr.) (Dept. of EE), Ms. KeertiChouhan (Assoc. Prof. (JIET)) Mr. Manish Purohit(Asst. Prof (Sr.),Mr. Sanjay Bhandari(Assoc.Prof.& Training Head (JIET)), Mr. Hemant Jain (Asst. Prof. (Sr.) JIETCOE), and Ms. Komal Sharma(Asst.Prof. (JIET)). Then it was followed by an expert lecture by Prof. M. G. Soni (Assoc. Prof (Dept. of EE) M.B.M. Engineering College) on "Signals & Systems. In the later session, various lab sessions were conducted

14th July: Session started with lectures delivered by Prof. K.K. Arora(Head, M.Tech (Dept. of ECE (JIET)), Prof.(Dr.) HemantPurohit(HOD,ECE (JIET)), Prof. Sanjay Gaur(Head (Dept. of ECE,JIETCOE)),Ms. Aisha Jangid(Dy. HOD(II Shift) Dept. of ECE (JIET)), Mr. RiteshSaraswat(Assoc.Prof. (JIET)), Mr. Ashish Mathur (Assoc. Prof. & Dy. Head (JIETCOE)), Mr.JitendraJangir(Asst.Prof. (JIET)), Ms. HeenaJoshi (Sr. Asst.Prof. (JIET)), Mrs. ShwetaBhati(Asst.Prof. (JIET)), Ms. Shaguna Choudhary (Asst. Prof. (Sr.) (JIETCOE)), Ms..Ranjana Trivedi (Assoc. Prof. (JIETCOE)), Mr. NabhendraRai(Asst.Prof.), Ms. Vandana Matai(Asst.Prof.), Mr. Brijesh Kumar (Assit.Prof.)& Ms. Purneshwari Devi (Assoc. Prof. (Dept. of EEE (JIETCOE). In afternoon session, RF Simulation Lab, FPGA Lab, SP Lab, Electronic Engineering Design Lab & DHD lab experiments were performed.

15th July: Lectures were delivered by Mr. Pradeep Kumar Sharma (Asst. Prof. (JIET)), Mr. Hemant Jain (Asst. Prof. (Sr.) JIETCOE), Mr. Bablu Kumar Singh( Asst. Prof. (Sr.) JIET)), Mr. Sanjay Bhandari (Assoc. Prof. (JIET)), Mr. Arun Vyas(Asst. Prof. (JIET)), Ms. Susheela Choudhary (Asst. Prof. (Sr.) (JIET)), Ms. Swati Joshi(Asst. Prof. (JIET)), Ms. PoonamVerma( Asst. Prof.(JIETCOE), Mrs. Aastha Vyas (Asst. Prof (JIETCOE)) & Ms. Vrushali Nagpure (Asst. Prof. (JIET)). In the afternoon session, lab sessions included RF Fabrication Lab, Communication Lab II, Signal & Image Processing Lab, AE/EDC/EED LAB & VLSI Physical Design Lab.

16th July: An academic audit was conducted by the mentors and co-mentors and in the afternoon session there was a presentation on NBA which was given by Mrs. Laxmi Choudhary((Dy. HOD I Shift)). An expert lecture was delivered by Prof. Sanjay B. C. Gaur(HOD, ECE, JIETCOE) on "Basics of MATLAB" at the dept. of ECE (JIETCOE)

Lab sessions and experiments were performed by the faculty members of the dept. of ECE of JIET & JIETCOE on 18th July, 19th, 20th July and 22nd July 2016 respectively.



# TEACHERS' DAY CELEBRATION

On 5th September, 2016, the students of the Department celebrated "Teachers Day" with full of zeal and enthusiasm.



On the occasion of International Day for the Preservation of the Ozone Layer (16th September, 2016) the department organized a pledge ceremony in EED lab.



**Several events organized on department level which are as follows:**

**Event's Name : Technical Quiz (15th September 2016) :**

Winners:

S.No.	Names	Position	Year
1	Hemant Sharma	I	IV
2	Anisha Mehta	II	III
3	Narendra Choudhary	III	IV

**Event's Name: Essay Writing Competition (15<sup>th</sup> September 2016):**

Winners:

S.No.	Names	Position	Year
1	Praful Kumar Chanda	I	III
2	Anil Vishnoi	II	III
3	Ashna Solanki	III	II

**Event's Name: Poster Competition (15<sup>th</sup> September 2016):**

Winners:

S.No.	Names	Position	Year
1	Paridhi Mathur, Priyanka Gautam, Tamanna Satsangi	I	III
2	Tamanna Bohra, Himanshu Joshi	II	III
3	Amit Suthar	III	IV

# OPEN HOUSE (15<sup>TH</sup> & 16<sup>TH</sup> SEPT. 2016)

There were total 21 Live Models, 15 Static Model & 32 Charts/Posters displayed .Winners of the various competitions are as follows:

## Model Working (Live) Competition:

S.No	Names of Students	Title	Semester	Year	Position
1.	Tribhuvan singh Yuvraj Singh	Self-Balancing Remote control Bot using PID Control Algorithm	V	III	1 <sup>st</sup>
			V	III	
2.	Saurabh Soni Suchitra Swain Kushagra Mewara	Augmenting the Human Experience	VII	IV	2 <sup>nd</sup>
			VII	IV	
			V	III	
3.	Amit Suthar Sandeep kumar Praveen Kumar Ramawat Jai Kishan Soni	Home Automation using Bluetooth Module and Arduino	VII	IV	3 <sup>rd</sup>
			VII	IV	
			VII	IV	
			VII	IV	

## Model (Static) Competition:

S.No	Name of Students	Title	Semester	Year	Position
1.	Karan Sharma Jitendra Patel	Image Acquisition	V(C3)	III	1 <sup>st</sup>
			V(C2)	III	
2.	Paridhi Mathur Priyanka Gautam Rajeshwari Rakhecha Tamanna Satsangi	Android Evolution	V(D1)	III	2 <sup>nd</sup>
			V(D1)	III	
			V(D2)	III	
			V(D3)	III	
3.	Shubhangi Joshi Tanuj Gulati	Incineration Dustbin	V(D2)	III	3 <sup>rd</sup>
			V(D3)	III	

## Chart/ Poster Making Competition

S.No	Name of Students	Title	Semester	Year	Position
1.	Tamanna Bohra Himanshu Joshi	WIFI vs. LIFI	V(D3)	III	1 <sup>st</sup>
			V(C2)	III	
2.	Rohit Panwar Vikas Upadhyay Himanshu Jain	Evolution of G	V(L2)	III	2 <sup>nd</sup>
			V(L2)	III	
			V(L2)	III	
3.	Karan Sharma	Image Acquisition	V(C3)	III	3 <sup>rd</sup>

# WORKSHOP:

A three days' Workshop on 'PLC and SCADA' organized by Prof. Sanjay B.C. Gaur (Head (Dept. of ECE (JIETCOE)) and Prof. Sanjay Bhandari (Assoc. Prof. (Dept. of ECE (JIET ))at Computer Programming Lab, EEE Department (JIETCPOE) from 11-13 July 2016. This workshop was organized for faculty members of ECE (JIETCOE), ECE (JIET) and EE (JIET) department.

The workshop on "Embedded System" was organized under banner of Institute of Engineers (India) Jodhpur Local Centre at JIET from 11-13 July 2016. Technical support for the workshop was provided by Vision World Tech Pvt. Ltd, Jaipur. The resource persons were Mr. Lokesh Tiwari, Mr. Janak Suthar, Mr. Radhey Shyam Kumawat and Mr. Maninder Singh. A total of 71 Faculty & Staff Members participated in these two workshops. The basics of Embedded and PLC-SCADA Communication, Applications of PLC and Embedded system, Introduction of RFID Technology, How to create new SCADA project, Industrial SCADA design and Simulation Process on Proteus software, Switch & Motor Interfacing with Arduino were explained by the resource persons. The workshop consists of a legion of valuable information and useful tools.



- One day Educational tour at "ICRS" was conducted for III year students by Prof. Sanjay Bhandari (Assoc. Professor, ECE) on 8th October 2016.
- Club of "PLC-SCADDA" was formed in ECE dept. under the banner of ISTE and IEI on 18th October 2016.



# ACADEMIC RESULTS: TOP THREE RANKERS:

## III YEAR (VI SEM(2017 Batch,I Shift))



**Pooja Bhargav : 85.9%**



**Sakshi Bajaj : 85%**



**Rakesh Bhati : 84.5%**

## III YEAR (VI SEM(2017 Batch,II Shift))



**Yogesh Seervi : 80.3%**



**Dheeraj Bhati : 80.2%**



**Shekhar Nahata : 75.1%**

## III YEAR (IV SEM(2018 Batch,I Shift))



**Virat Mathur: 86.3%**



**Anisha Mehta : 85.8%**



**S. Krithika:81.4%**

## III YEAR (IV SEM(2018 Batch, II Shift))



**Radhey Shyam Verma:78%**



**Ruchika Shankhla : 77.5%**



**Mayanka Bhatia : 76.4%**

# RESULTS

# Placement

## Infosys

Ms. Navadga Singh lalas  
(IV Year ,ECE)

Ms. Sakshi Bajaj  
(IV Year ,ECE)

Ms. Yashmita Bharti  
( IV Year ,ECE)

Ms. Garima Mangalhara  
(IV Year ,ECE)

Mr. Aditya Joshi  
(IV Year ,ECE)

## Universal Hunt

Mr. Arpit Sharma  
(IV Year, ECE)  
Ms. Ritika Harsh  
( IV Year ,ECE)

## Asahi India Glass limited

Mr. Aditya Joshi  
(IV Year ,ECE)

## IAF

Mr. Rakesh Ram Machra  
(IV Year ,ECE)

## Good Through S/W Solutions

Ms. KanikaChoudhary  
(IV year ,ECE)

## Capgemini

Akshay Jain  
(IV year ,ECE)  
Aayush Masih  
(IV year ,ECE)

Suraj Singh Solanki  
(IV year ,ECE)

Shobhit Solanki  
(IV year ,ECE)

Shafali Sutti  
(IV year ,ECE)

Prateek Mehta  
(IV year ,ECE)

Aastha Nigam  
(IV year ,ECE)

# JOBBS

# FACULTY ACCOMPLISHMENTS:

- Prof. (Dr.) Hemant Purohit (HOD, ECE) attended IEEE workshop on, "Smart-Technologies for Smarter living" from 18-19 November 2016 Technically Sponsored by IEEE section Bangalore at Hotel Vivanta by Taj Bangalore.
- Ms. Swati Joshi (Asst. prof.) ECE attended 5 days Course on "Introduction to speech coding with internet of things (IOT) Applications" from 21st to 25th November at NIT, Agartala (Tripura). The lectures delivered by Prof. Tokunbo Ogunfunmi, Director Signal processing Lab, Santa Clara University, California, USA and Mr. Shivakumar Mathapathi, Co-Founder and CTO Dew Mobility, Fremont California USA. Technically sponsored by MHRDA India under GIAN (Global Initiative of Academic Networks) Courses.
- Prof. O.P. Vyas (Dean, Engg. (JIET)), Prof. Sanjay Bhandari (Assoc. Prof.), Prof. Susheela Choudhary (Sr. Assist. Prof.), and Prof. Shweta Bhati (Assist. Prof.) and the students of Final Year Ms. Navadha Singh and Ms. Shaifali Sutti attended a Seminar organized by MATHWORK on "Design and Implementation of Image Processing and Computer Vision System using Matlab and Simulink" at Vivanta by Taj Hari Mahal, Jodhpur. (11th August 2016).
- Prof. (Dr.) Hemant Purohit (Head, Dept. of ECE) paper titled, "A Simulation Based Comparative Study on Channel Utilization Enhancement Using DITMC Technique in Speech and Data Communication of Mobile Network" has been selected for presentation at 6th International Conference on "Information Communication and Management (ICICM 2016)" to be held at University Of Hertfordshire, UK (29-31 Oct, 2016.).
- Prof. (Dr.) Hemant Purohit has been appointed as a Member of Technical Committee of the International Conference on "Communication and Network Security 2016", Singapore (26-29 Nov, 2016).
- The paper titled "Simulation Study of DITMC Technique for Enhancing Channel Utilization in Speech Communication of Mobile Network" penned by Prof. (Dr.) Hemant Purohit (HOD, ECE) has been published in IEEE Xplore.
- Ms. Rita Choudhary (Assistant Prof.) has presented a paper titled, "Imperceptible Hybrid Image Water Making using DWT-SVD and their Performance Analysis in Different Sub Bands" at the 6th International Conference on "Advance Trends in Engineering, Technology and Research" (ICATETR- 2016). and her paper has been awarded as the "Best Session Paper".
- Asst. Prof. Ajay Rupani's paper titled "A Review of Technology Paradigm for IOT on FPGA" has been published in "International Journal of Advanced Research in Computer and Communication Engineering IJARCCCE" (Vol.5, Issue 9, PP-61-64, September, 2016).
- Asst. Prof. Ajay Rupani paper titled "Review And Study Of FPGA Implementation Of Internet Of Things" in "International Journal of Science Technology and Engineering" (IJSTE) (Vol.3, Issue 2, pp. – 104-10, August, 2016).
- A paper titled, "A Robust Image watermarking based on 2-level DWT" penned by Ms. Rita Choudhary (Assistant Prof) has been accepted for presentation at the conference in IEEE to be organized at GLA University, Mathura from 18-20 Nov. 2016.
- Ms. Rita Choudhary (Assistant Prof) paper titled, "Imperceptible Image Watermarking Technique using 3-level DWT" has accepted in IRAJ-Research Forum Conference IACEEE-2016 to be held on 6th Nov. 2016 at Nagpur.
- Mr. Ajay Rupani (Asst. Professor) research paper titled "A Review of FPGA Implementation of Internet of Things" has been published in IJRCCE, Volume 4 Issue 9, September 2016.

# STUDENTS' ACCOMPLISHMENTS

- The Final Year students, Mohit Chouhan and Mahendra started a new government recognized enterprise named "ZILLMILL" which manufactures paper and paper products.
- ISTE Student Chapter has organized a guest lecture on "Conference/Seminar Participation" on 31st August, 2016.
- Suchitra was awarded a Gold medal during her VI semester industrial training at Centre for Air Borm System (ABS), DRDO, Bangalore in the field of "Holographic Air Situation Picture Display".
- Ms. Yashvika Bharadwaj presented paper (poster) title "The next generation Polymer and Nano Composites" on RAESET-2016 National Conference.Under guidance of Prof. (.Dr) Akleshwar Mathur and Asst. Prof Ajay Rupani.
- Ms. Nishta Arora Presented paper (poster) title "Nanomaterial – The Next Big thing is Really small" on RAESET- 2016 National Conference, Under guidance of Prof. Dr. Akleshwar Mathur and Asst. Prof Ajay Rupani.
- Mr. Mahendra Pal Gurjar (Alumini of JIET and an IAS) delivered a motivational and an informative lecture to the third year students on 4thOctober 2016 organized by Prof Sanjay Bhandari.
- Mr. GajendraTripathi (Alumini JIET) delivered an expert talk on "SAP" in a workshop organized by Prof.Sanjay Bhandari (Assoc. Professor, ECE) for III year students on 6th October 2016.
- One day Educational tour at "ICRS "was conducted for III year students by Prof. Sanjay Bhandari (Assoc.Professor, ECE) on 8th October 2016.

Following students won Bronze medals in Cricket tournament at VARCHAS'16 organized by IIT, Jodhpur.

Names	Year /Semester
Nakul Beniwal ( Vice Captain)	IV/VII
Rajveer Singh	IV/VII
RakeshRamMachra	IV/VII
Yogesh Kiradoo	IV/VII
Rampal	IV/VII

HOW TO  
actually  
accomplish  
YOUR GOALS

# TECHNICAL QUESTION BANK

- Cloud Service Provider Platform –
  - IBM Bluemix
  - AWS (Amazon Web Services)
  - Microsoft Azure
  - All
- Name any three semiconductor companies –
  - Ericson
  - Siemens
  - AT & T
  - All
- Who designed the 'first' small computer for home use?
  - John Blankenbaker
  - Steve Wozniak
  - Chuck Peddle
  - Steve Leininger
- Which gases form the plasma in plasma TVs?
  - neon and hydrogen
  - helium and oxygen
  - neon and xenon
  - xenon and hydrogen
- Which American computer company is called Big Blue?
  - IBM
  - INTEL
  - Microsoft
  - Compaq Corp
- Which of the following memories uses a MOSFET and a capacitor as its memory cell?
  - SRAM
  - DRAM
  - ROM
  - DROM
- Select the best description of the fusible-link PROM.
  - user programmable, one-time programmable
  - manufacturer programmable, one-time programmable
  - user programmable, reprogrammable
  - manufacturer programmable, reprogrammable
- What is the most significant development in electronics since World War II?
  - the development of color TV
  - the development of the diode
  - the development of the transistor
  - the development of the TRIAC
- When and who discovered that more than one transistor could be constructed on a single piece of semiconductor material:
  - 1949, William Shockley
  - 1955, Walter Bratten
  - 1959, Robert Noyce
  - 1960, John Bardeen
- What is the voltage across R1 if the P-N junction is made of silicon?
  - 12V
  - 11.7V
  - 11.3V
  - 11.5V



ANSWERS :

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>D</b>	<b>D</b>	<b>B</b>	<b>C</b>	<b>A</b>
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>B</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>C</b>



# THE INTERNET OF THINGS IS FAR BIGGER THAN ANYONE REALIZES

The Internet of Things. Technology growing rapidly. Internet of Things (IoT) or Internet of Everything (IoE) refers to devices or objects that are connected to the Internet, like your smartwatch, Fitbit, or even your refrigerator. These devices are able to collect and transmit data via the Internet, contributing to our big data world.

Smart, connected devices are already transforming our world and the competitive forces in business. A consortium of industrial giants, including AT&T, Cisco, General Electric, IBM and Intel recently that they would cooperate to create engineering standards to connect objects, sensors and large computing systems in some of the world's largest industrial assets, like oil refineries, factories or harbors.

The Industrial Internet Consortium, hopes to establish common ways that machines share information and move data. Creating standards for things like the electricity levels within small machines, or the kinds of radio technology a railroad might use to signal track conditions, can increase the size of the potential market and speed product development. The IoT requires multiprotocol, multimedia platforms able to perform control networking using IP all the way to the end device. Successful industrial control networking solutions will recognize and embrace the special considerations of the industrial world, e.g., myriad existing protocols, devices installed for their reliability and longevity, and the need for both wired and wireless connections, while building IP-based bridges to the IOT.

Sources :

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