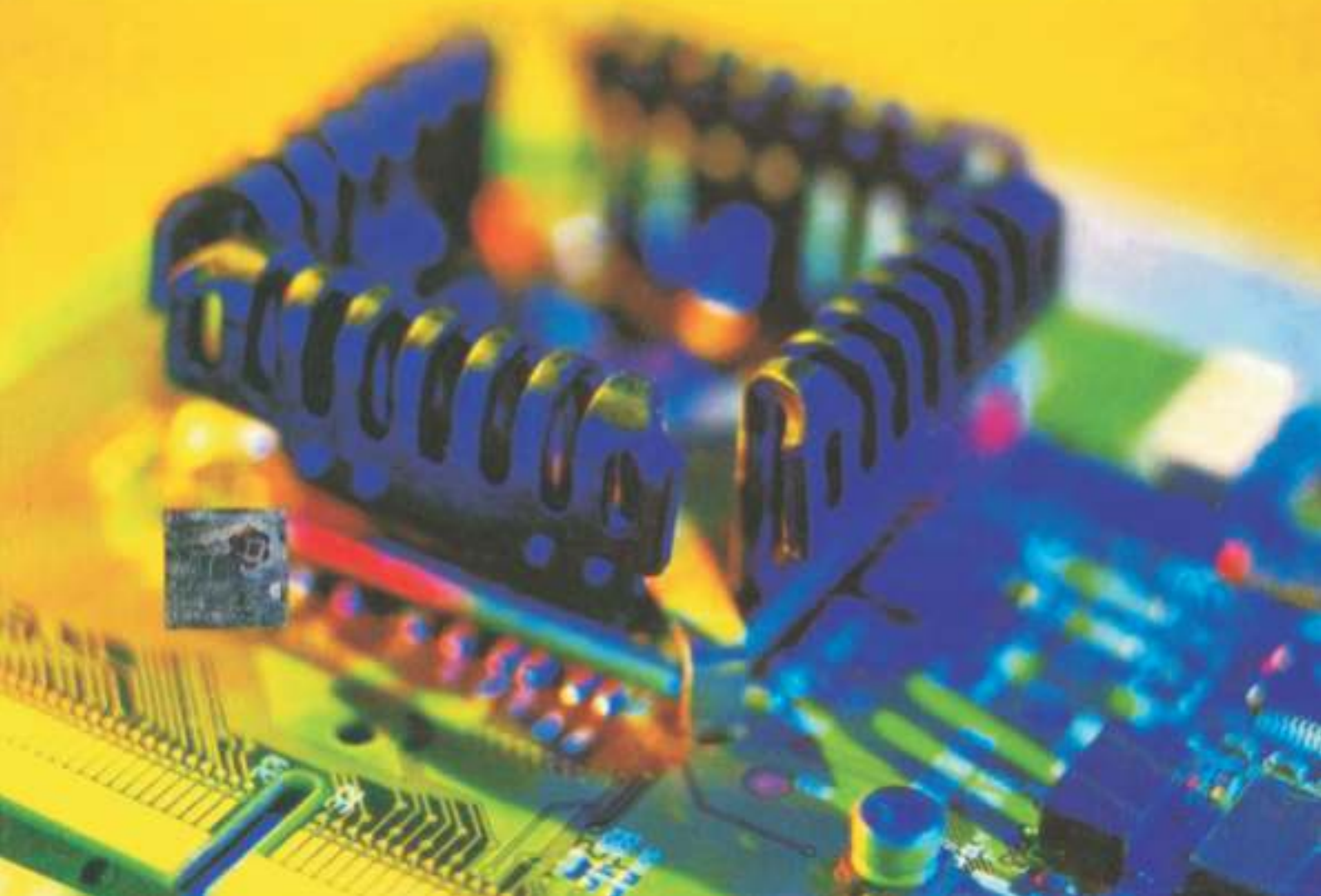




JIET COLLEGE OF ENGINEERING

IMPULSE

B. Tech. (Dept. of Electrical and Electronics Engineering (EEE))
Issue - 10 | December, 2017 | Half Yearly Newsletter



JIET

Group of Institutions

www.jietjodhpur.ac.in



Mission

Vision

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 (PEOs)

- **Preparation** - EEE graduates should be competent enough in the practice of Electrical and Electronics Engineering in industry, research & development and public service units.
- **Core-Competence** - To train students with good scientific aptitude in Electrical broadband so as to comprehend, analyze, design, and create novel products and solutions for sustainable development of society.
- **Breadth** - To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve problems related to EEE and to prepare the students for post-graduate programs.
- **Professionalism** - To inculcate professional and ethical attitude, effective communication skills, team spirit, leadership, multidisciplinary approach, and an ability for self-education as well as self-employment amongst the students.
- **Learning Environment** - To motivate the students toward continuous professional development through individual effort and life-long learning for a successful professional career.

Programme Outcomes (POs)

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Electrical & Electronics Engineering

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MESSAGE FROM THE HEAD OF THE DEPARTMENT



It is matter of great honor for Dept. of EEE to bring out another issue of "IMPULSE", a mirror which reflects the clear picture of all sorts of activities - curricular as well as extra-curricular, undertaken by the department. The wide-spectrum of articles in different sections gives me a sense of pride that our students and teachers possess creative potential and original thinking in ample measures. I would like to congratulate the team that took the responsibility for the arduous task most effectively.

Ms. Pooja Mathur
(Asst. Prof. & HOD, EEE, JIETCOE)

MESSAGE FROM THE EDITOR

Being the Editor In-charge, it gives me great pleasure to bring you with this issue of half yearly newsletter of the Department of EEE, "IMPULSE". IMPULSE is designed to present to its readers the events that have gone by, it also showcases the talents of our faculty members and students. A lot of effort has gone into the making of this issue. The best thing about this issue is that it represents the creative side of students to a fair degree-something that we think we all need to reconnect with. Amidst the busy schedule of a 4-month semester, with 3-exams, surprise quizzes and all those assignments and problem sheets that make you want to bang your head on the wall, we tend to lose track of all the other simpler things that we are capable of, things that we could have been proud of, that can bring one satisfaction. So this time an attempt has been made to bring out the talent concealed within our student community. With all the efforts and contributions put in by the management, faculty and students, I truly hope that the pages that follow will make some interesting reading.

"IMPULSE" is a distinctive place and none of what we do could be accomplished without the generosity and interest given by our community.

Any suggestions or criticism on the work done would be most welcome.



Ms. Pooja Panwar
Asst. Prof.,
EEE, JIETCOE

GUEST & EXPERT LECTURES (EXPERTS FROM OUTSIDE & WITHIN JGI)

- Mr. Navneet Maru (Associate Professor & Dy. Head, EE Department, JIET) delivered an expert lecture on the topic “Characteristics of IGBT” to V semester students on July 28, 2017.
- Prof. Sanjay B.C. Gaur (Head, ECE Department, JIETCOE) delivered an expert lecture on the topic “Introduction to Sampling” to VII semester students on July 29 & July 30, 2017.
- A video lecture (NPTEL) by Dr. S. Parasuraman (Professor, IIT Madras) was arranged for the students of III semester, on the topic “Density of States”, on August 2, 2017.
- Prof. (Dr.) K.R. Chowdhary (Campus Director, JIETCOE) delivered an expert lecture on the topic “Fourier Transform and its Practical Application” to III semester students on August 18, 2017.
- Prof. (Dr.) K.R. Chowdhary (Director, JIETCOE) delivered an expert lecture on the topic “Search & Control Strategies in Artificial Intelligence” to VII semester students on August 22, 2017.
- Prof. (Dr.) Sandip Mehta (Dean – Engineering, JIETCOE) delivered an expert lecture on the topic “Commutation Process in DC Generators” to III semester students on August 24, 2017.
- Prof. (Dr.) Sushma Dave (Associate Professor, Department of Applied Sciences, JIET) delivered an expert lecture on the topic “Disaster Management: New Aspects” to III Year students on September 19, 2017.
- Mr. Mahaveer Prasad Bhati (Engineer, All India Radio, Jodhpur) delivered an expert lecture on the topic “Analog Broadcasting and its Applications” to III Year students on September 23, 2017.
- Prof. Pooja Verma (Associate Professor & Head, Department of EEE, JIETCOE) delivered an expert lecture on the topic “Digital logic design using MOSFETs” to V semester students on October 3, 2017.
- Prof. Vinit Mehta (Associate Professor, Department of Electrical Engineering, JIET) delivered an expert lecture on the topic “Impedance Model” to VII semester students on October 10, 2017.
- Prof. Anil Raghav (Assistant Professor, Department of EEE, JIETCOE) delivered an expert lecture on the topic “Transients in Transmission Line” to VII semester students on October 12, 2017.
- Prof. Sanjay Gaur (Head, Department of ECE, JIETCOE) delivered an expert lecture on the topic “Filter Design Techniques” to VII semester students on October 24, 2017.



ORIENTATION PROGRAMME

III & V Semester (July 3 – July 5, 2017)

- Career guidance sessions were conducted for students on various domains like Master's Degree (M.E./M.Tech./M.B.A/M.S. etc.), Technical & Non-Technical Jobs of Govt. Sector, Specialised Job-Oriented Courses and Banking Sector Jobs.
- Apart from these domains, each faculty member guided the students with the recruitment and selection procedure of various renowned private sector companies of IT sector and branch relevant companies.
- Interaction sessions by Head and Dy. Head were conducted in which students were informed about the planning of the semester.
- Also interaction with Training & Placement Cell coordinator, an alumni interaction, communication skills session and interaction with Chief Tutor was conducted.
- Expert lecture session on Fundamentals of C/C++ programming by Prof.(Dr.) K.R. Chowdhary (Campus Director, JIETCOE) for students of both the semesters.



VII Semester (July 24 – July 26, 2017)

- Interaction sessions by Campus Director, Dean - Engineering, Head and Dy. Head were conducted in which students were informed about the planning of the semester.
- Also interaction with Training & Placement Cell coordinator, projects based interaction and communication skills session was conducted.

STUDENTS' ACHIEVEMENTS & PARTICIPATION

- Pallavi, Suman Dudi, Ankita Vaishnav, Morna Sharma, Mansi Sirvee, Amisha Sagar and Suchitra Khator, students of VII semester, were awarded with 'A' & 'B' grades in NCC 'C' Level Certificate Examination in the month of June, conducted in February, 2017 organised by NCC headquarters, Jodhpur.
- Kritika Sharma, student of VII semester was appreciated for her excellent work during the training among all the trainees. She worked on "Terrestrial Photogrammetry 3D-Modeling using Mobile Devices", a project of ISRO, Jodhpur.
- Vidhya Punwani, student of VII semester, was praised for the insights and recommendations of her project work on "Centralized Head Office System Control Room for Retail Automation & its Utility at Retail Outlets" during summer training at HPCL, Jodhpur Retail Region.
- Priyanshu Soni, student of III semester, attended a Summer Show conducted at Children's Park, Sardarpura, Jodhpur & was awarded Scholarship for five months for his best dance performance in cultural events category, on June 2, 2017.
- Priyanshu Soni, student of III semester, also attended a workshop conducted by Ridham Dance Academy of Jodhpur on Desi Hopper from July 28 to July 30, 2017.
- Soniya Chandawat, student of V semester, attended a Combined Annual Training Camp at Maulana Azad University conducted by 4 Raj Air Sqn NCC Jodhpur from June 11 to June 21, 2017 and she stood first in the Shooting event.
- Niharika Saini, Neha Chouhan, Ruchi Sankhla and Shireen Khan, 4 students of V semester went to Himachal Pradesh to attend All India Girls Trekking Camp by NCC. There, along with the girls from Udaipur, Jaipur & Bikaner, they represented Rajasthan and got First position among all other states which participated in the camp. These 4 students also went for NCC Polio visit on July 4, 2017.



- Vaishali Solanki, a student of V semester is a recipient of State Winner prize. She won a Gold Medal and was awarded a cash prize of Rs. 50,000 by Rajasthan State Sports Council.
- Sheetal Soni, student of V semester had undergone training on Digital Switching System from BSNL for 15 days, from June 1 to June 15, 2017.
- Three students of V semester, Manisha Purohit, Nidhi Arora and Nikita Vyas had undergone training on Testing & Switchyard from GSECL Power Plant at Gandhinagar, Ahmedabad, from June 19 to July 1, 2017.
- Soniya Chandawat, student of V semester had undergone training on Image Processing area of MATLAB software from DRDO, from June 19 to August 5, 2017.
- Jyoti, student of V semester had undergone training from Raj West Power Limited (RWPL) for 30 days, from June 1 to June 30, 2017.
- Himani Rawal, Himani Tilayacha, Ankita Bora, Karishma Tak and Chandrika Harsh, 5 students of V semester, went for a visit to 133 kV GSS - CHB, Jodhpur on June 28, 2017.
- Shireen Khan, Neha Chouhan, Ruchi Sankhala and Kajal Bhati, 4 students of V semester, participated in coordinating the activities during the Orientation Programme for I semester students, on 6-8 August, 2017
- Ankita Vaishnav, student of VII semester, has been selected as College Representative (CR) of E-Cell, IIT Bombay, on August 15, 2017.
- Sanju Singh Bhati, student of VII semester, attended INAE (Indian National Academy of Engineering) YOUTH CONCLAVE 2017, organized by Birla Institute of Scientific Research, Jaipur (August 11 -12, 2017).
- Niharika Saini (III Year), participated in Badminton Tournament organized by RTU, Kota at Jaipur Engineering College (September 5 - 8, 2017.)
- Priyanka Mehra (Final Year) secured II position at State-level and I position at District-level, and I position at JGI-level in an "Essay Competition" conducted by JGI under the banner of IE(I) and ISTE Students' Chapter in association with Nehru Yuva Kendra Sangthan, on September 5, 2017.
- Yukti Jha, Yashasvi Vyas, Malvika Saxena, Sarifa Alam and Mohd. Shoaib Khan, 5 students of III semester participated in a ONE-day workshop on "MATLAB", organized by Robosapiens Technologies Pvt. Ltd., at IIT Delhi during Rendezvous 2017 (Annual cultural fest of IIT Delhi), held on October 14, 2017.
- Jairaj Parihar, Jitendra Singh Bhati and Kirti Vyas, 3 students of III semester participated in a one day workshop on "Internet of Things" (IoT) at IIT Delhi during Rendezvous 2017 (annual cultural fest of IIT Delhi), held on October 14, 2017, organized by Robosapiens Technologies Pvt. Ltd.
- Ruchi Sankhala, Shireen Khan and Kajal Bhati (students of V semester) participated in a one day workshop on "8051 Embedded Systems" at IIT Delhi during Rendezvous 2017 (annual cultural fest of IIT Delhi), held on October 14, 2017, organized by Robosapiens Technologies Pvt. Ltd.
- Niharika Saini (student of V semester) and Karan Bora and Dhruv Purohit (students of III semester) participated in a one day workshop on "Sixth Sense Robotics" at IIT Delhi during Rendezvous 2017 (Annual cultural fest of IIT Delhi), on October 14, 2017, organized by Robosapiens Technologies Pvt. Ltd.
- Rishabh Joshi, student of III semester participated in a one day workshop on "Android Apps" at IIT Delhi during Rendezvous 2017 (annual cultural fest of IIT Delhi), held on October 14, 2017, organized by Robosapiens Technologies Pvt. Ltd.
- Sonia Chandawat (student of V semester) attended a Pre-Republic Day Camp organised at Dechu, Shergarh from October 6-15, 2017.
- Niharika Saini, Neha Chouhan and Shireen Khan (V semester) gave a Nukad Natak performance at JIET Campus, on October 2, 2017.



STUDENTS' ACCOMPLISHMENTS

- A paper titled "Materials: Transforming Imagination into Reality" co-authored by Mr. Bhupendra Meena, (student of III semester) and Ms. Sushmana Sharma, (Associate Prof., Department of Physics, JIETCOE) has been published in the International "Conference on Condensed Matter and Applied Physics", organized by Govt. Engineering College, Bikaner, Rajasthan, on Nov. 24-25, 2017.
- A paper titled "Computational Cross Norms Criterion as Entanglement Measure" co-authored by Mr. Bhupendra Meena, (student of III semester) and Ms. Sushmana Sharma, (Associate Prof., Department of Physics, JIETCOE) has been published in the International Conference on "Data and Information Science", organized by Indra Gandhi National Tribal University, Amarkantak, Madhya Pradesh, on Nov. 17-18, 2017.
- A paper titled "Sustainable Development & Innovative Clean Technology" jointly authored by Ms. Priyanka Mehra, Ms. Pooja Mathur (students of VII semester) and Ms. Anshu Mathur (Asst. Prof, Dept. of Humanities & Social Sciences, JIETCOE) has been published in International Journal for Research in Applied Science & Engineering Technology (Vol. 5, Issue IX, Sept. 2017)

WORKSHOPS AND INDUSTRIAL VISITS

A workshop on "Embedded System Using Arduino UNO Microcontroller Board" was conducted for the students of III semester, in the third week of August. The resource persons for the workshop were Mr. Prashant Thanvi, Mr. Jitendra Prajapat & Mr. Jugmohan Singh.

Topics covered in the workshop:

- ✦ Basics of Proteus Software.
 - ✦ Basic Electronic Circuit [clipper] Simulation on Proteus.
 - ✦ Fundamental of Relays [using Proteus].
 - ✦ Introduction to Arduino UNO Board.
 - ✦ Introduction to Arduino IDE Software.
 - ✦ Writing and Compiling Basic Program in Arduino IDE.
 - ✦ Linking of Arduino IDE and Proteus.
 - ✦ A Simple Circuit Simulation using LM35 sensor, LCD Module, Arduino UNO and LED.
 - ✦ Basic ideas for projects that can be made during Open House 2017.
- IBM Career Education Program: 5 students of V semester attended a 2-days IBM certified workshop on "Cloud Computing" held in JIET campus (Oct. 7-8, 2017). The trainers were Mr. O. P. Suthar, Mr. Suresh Kumar Jha and Mr. Rajesh Poswal.
 - 41 students of V Semester went for an industrial visit to Meter Testing Lab, JdVVNL, Jodhpur, on October 9, 2017.
 - 49 students of III semester visited UMAX Packaging Ltd., Jodhpur, on October 6, 2017.



ALUMNI INTERACTION

An interaction programme on the topic “Fundamentals of Solar Energy Systems” by Ms. Srishti Mishra, (Alumnus of Dept. of EEE, Batch – 2017), currently working as an Electrical Engineer in the company, High up Solar System, Jaipur, was organized for the students of III year on September 26, 2017.

Following topics were mainly discussed during this interaction:

1. Introduction to Solar Energy Systems
2. Types of Solar Systems
3. Types of Solar Plates
4. Basic Load Calculation
5. Conditions for installing Solar Plants
6. Description of Solar Roof Top Projects with Diagram
7. Difference between Solar on Grid and Off Grid System
8. Difference between Efficiency of Solar Plates and Roof Top Load Calculation



ALUMNI SELECTIONS

- Shradha Singh, Chitrakshi Ojha, Sonal Choudhary, Kiran Matwa, Sarita Choudhary and Saroj Moga, six students from Batch 2014; Pooja Bohra, Varsha Mohsalpuri and Sonal Parihar, three students from Batch 2015; and Kumari Durga Sodha, Vandana Sharma and Sarawati Meena, three students from Batch 2016, got selected for the post of Junior Engineer in Electrical Department of Rajasthan State Electricity Board (RSEB) in the month of September.
- Jyoti Panwar, student of Batch 2014, got selected for the post of Assistant Engineer in Electrical Department of Rajasthan State Electricity Board (RSEB) at Jodhpur Discom (JdVVNL).
- Kiran Kumari and Diksha Joshi, two students of EEE (Batch 2014) got selected as Lecturer in RPSC Technical Education Lecturer Examination.

OPEN HOUSE 2017

- Department Theme: Era of Innovation in Smart Technology
- Details of Participation in Different Categories :

S.No.	Category	No. of Entries
1	Charts & Posters	15
2	Working Models	15
3	Non- Working Models	06

Glimpses of Open House-2017



RESULTS OF THE OPEN HOUSE 2017

Charts

Position	Name of Student	Title Of Chart With Description	Semester
1.	MumalKhich	"Smart Grid Technology"	V SEM
2.	ShilpaDandwani	"Off-Grid Drowning Drinking Water from Air"	VII SEM
3.	VanshikaRawat	"Generation Of Electricity by Carbon Nano Tubes"	V SEM

Working Models/ Projects

Position	Name of Student	Title	Semester
1.	Jyoti	"Arduino based Robo Car"	V
	GarimaParihar		V
	JaishreeKanwar		V
2.	MuskanPurohit	"Smart Stick"	VII
	PratikshaGehlot		VII
3.	DhruvPurohit	"Gesture Vehicle"	III
	HartikPurohit		III
	MukeshBishnoi		III
	Karan Bora		III

Non-working Models:

Position	Name of Student	Title	Semester
1.	SoniyaChandawat	"Hot Line Robot"	V
	VarshaVishnoi		V
	SonaliRathore		V
	SushilaBhati		V
2.	ShivaniParoda	"NexGen Human Robo"	VII
	MukeshBishnoi		III
	SumanDudi		VII
	Rishabh Kumar Jangid		III
3.	YuktiJha	"Smart Board"	III
	Yashasvi Vyas		III
	MalvikaSaxena		III
	SarifaAlam		III

Winners at Dept. level :

I position : Shilpa Dandwani
II position : Morna Sharma
III position : VidhyaPunwani

Winners at College level :

I position : Morna Sharma
III position : VidhyaPunwani

Training Domains of Winners :

Vidhya Punwani's insights and recommendations on "Centralized Head Office System Control Room for Retail Automation & its Utility at Retail Outlets" during summer training undergone at HPCL, Jodhpur Retail Region.

Morna Sharma : " Embedded Systems"



An Inter College Practical Training Contest

Winners

FACULTY ACCOMPLISHMENTS

- Prof. Purneshwari Varshney (Associate Professor, Department of EEE, JIETCOE) published a paper entitled "Simulation of Swarm based Routing Protocols in Wireless Sensor Networks" in International Journal of Electronics, Electrical & Computational System, Vol. 6, Issue 9, September 2017 (ISSN2348-117X)
- Prof. Purneshwari Varshney (Associate Professor, Department of EEE, JIETCOE) presented a paper entitled "Simulation of Energy Efficient Routing Protocols" in "International Conference on Science, Technology & Management" organised by IETE, Bengaluru in September, 2017 (mailed slides of paper)
- A paper titled "Computational Electromagnetics: Techniques and Applications" co-authored by Prof.(Dr.) Sandip Mehta (Dean – Engineering, JIETCOE) & Mr. Anil Raghav (Assistant Professor (Sr.)) has been published in the International Journal for Research in Applied Science & Engineering Technology (Volume 5, Issue XI, November 2017 (Paper ID : IJRASET10839))
- A paper titled, ""Ferroresonance: An Insight into the Phenomenon" co-authored by Prof.(Dr.) Sandip Mehta (Dean – Engineering, JIETCOE) & Prof. Pooja Panwar (Assistant Professor) has been published in the International Journal of Advance Engineering and Research Development (IJAERD) (Volume 04, Issue X, in October-2017 (Paper ID : IJAERD2017V04I1013660))

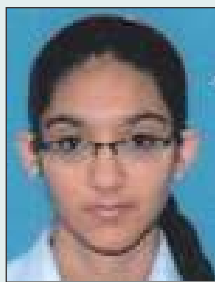


UNIVERSITY RESULTS

VIII Semester (Batch 2013-2017)



Sonal Sirvi
88.80%



Anushri Gaur
88.40%



Saroj Sirvi
85.60%

VI Semester (Batch 2014-2018)



Priyanka Mehra
84.80%



Khushboo Ramawat
83.40%



Sanju Singh Bhati
82.40%

IV Semester (Batch 2015-2019)



Lalita
86.80%



Varsha Vishnoi
79.60%



Charu Godara
79.20%

good
better

BEST

If you can Dream it,

You can Do it...



STUDENTS' PLACEMENT

Infosys



Neha Sharma
Final Year

Appeal Group



Muskan Khanchandani
Final Year



Pratiksha Gehlot
Final Year

Capegemini



Morna Sharma
Final Year



Payal Joshi
Final Year



Pallavi
Final Year



Priyanka Mehra
Final Year

Chiranjeev Enterprises

HFFC Sales

Varsha Purohit (Final Year)

Anjali Rakhi (Final Year)



Koushalya Choudhary
Final Year

Team Work



PATRON

Prof. (Dr.) K.R. Chowdhary
(Director, JIETCOE)

CHIEF EDITOR

Ms. Chitra Chhablani
(I Year - Applied Sciences)

FACULTY COORDINATOR

Pooja Panwar
(Asst. Prof., EEE Dept.)

JAS MEMBER

Er. Sejal Parihar

DESIGN & LAYOUT

Mr. Anil Chandora (Admin)



JIET
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JIET GROUP OF INSTITUTIONS

Campus : JIET Universe, N.H.- 65
Pali Road, Mogra, Jodhpur -342 802
Ph.: +91 291 2868152, 5170917/18
Email.: info@jietjodhpur.ac.in
Web.: www.jietjodhpur.ac.in