



JODHPUR INSTITUTE OF  
ENGINEERING AND TECHNOLOGY



# THAT'S PARK

Dept. of Electrical 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

1. **Preparation:** Electrical Engineering graduates should be competent enough in the practice of Electrical Engineering in industry, research & development and public service units.
2. **Breadth:** To provide students with a solid foundation in mathematical, scientific and electrical engineering fundamentals required to solve problems related to electrical engineering and to prepare the students for post-graduate programs.
3. **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.
4. **Learning Environment:** To motivate the students toward continuous professional development through individual effort and life-long learning for a successful professional career.
5. **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.

## List of Programme Outcomes

- a) Graduates will demonstrate knowledge of differential equations, vector calculus, complex variables, matrix theory, probability theory, Physics and Chemistry.
- b) Graduate will demonstrate an ability to design electrical and electronic circuits and conduct experiments with electrical systems, analyze, interpret data, solve electrical engineering problems and succeed in competitive examinations like GATE, IES.
- c) Graduates will demonstrate an ability to design digital and analog circuits in core Electrical and Electronics engineering.
- d) Graduate will demonstrate an ability to analyze, interpret and design the various components of electrical power systems.
- e) Graduates will demonstrate an ability to simulate Electrical and Electronics systems in laboratories and work on multidisciplinary tasks. Graduate will demonstrate an ability to analyze, interpret and design the various components of electrical control systems.
- f) Graduate will demonstrate skills to use modern engineering tools, software and equipment to analyze problems.
- g) Graduate will demonstrate an ability to analyze, interpret and design the various components of modern electric drives.
- h) Graduates will demonstrate knowledge of professional and ethical responsibilities by understanding the impact of engineering solutions on the society and also will be aware of contemporary issues.
- i) Graduate will be able to communicate effectively in both verbal and written form so as to compete in global environment and succeed in competitive examinations like GRE.
- j) Graduate will develop confidence for self-education as well as self-employment and ability for life-long learning.
- k) Graduates will demonstrate an ability to analyze, interpret and design various aspects of non-conventional energy product for sustainable future.



# Top Voices

'SPARK', the biannual newsletter of the department illustrating the activities of the department in the previous session is successfully launched and its editorial board is to be congratulated for their untiring efforts. I hope, it will motivate the faculty and the staff to further their skills in creative way.



**Prof. Dr. B.L. Mathur**  
Head P.G.,  
Department of EE, JIET



**Prof. Kusum Agarwal**  
Head U.G.,  
Department of EE, JIET

I feel elated on publication of the half yearly newsletter 'The SPARK' of the department of EE for the academic year 2016-2017. 'The Spark' is a platform to showcase all the efforts carried out by faculty and students of the department from July 2016 to December 2016. This motivates us in imparting and gaining quality education. I wish good luck to the team 'The SPARK'.

## From the Editorial Desk

It gives immense pleasure to witness the outcome of discipline based philosophy of the department laid long back in the year 2004. Team Electrical Engineering (JIET) has left no stone unturned in the field of curricular and extra-curricular activities conducted in last six month. The efforts made by my editorial team Yash Bohra, Bhawana Gurnani and Manisha Choudhary have made the magazine worth- reading. Anticipating an overwhelming response to our newsletter!



**Mr. Vineet Gehlot**  
Assistant Professor, EE, JIET  
Member of Internal Publication Cell, JIET





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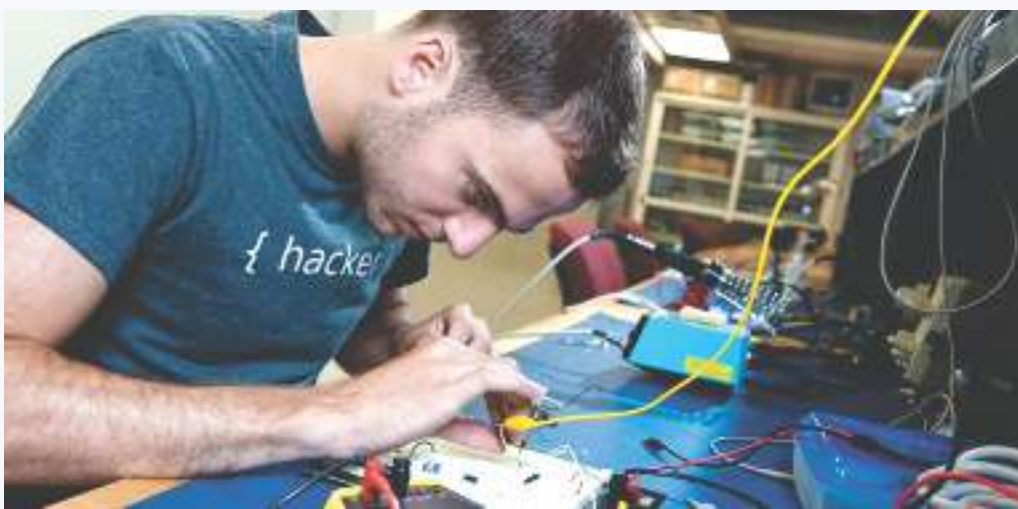
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## GUEST LECTURES (EXPERTS FROM OUTSIDE JGI)

- A video lecture of Prof. Pradeep Yemula was organized on the topic "Optimization of Power System "on 6th September 2016 for the students of IV year (sections E and M) at LT- 17.
- Prof. M. G. Soni (Associate Professor, EE department, M B M Engineering College, Jodhpur) delivered an expert lecture to the students of III Year (sections E & M) on "Basics of Control System" on 26th September, 2016 at JIET Conference Hall.
- Er.M.L.Khanchandani (Retd. Executive Engineer, Rajasthan Sate Electricity Board, Jodhpur) delivered an expert lecture to the students of III Year (E & M sections both) on "Practical Overview Of Transmission & Distribution " on 3rd October, 2016 at MBA Conference Hall.
- A video lecture of Prof. (Dr.) D.P Kothari (Former Director, IIT Delhi) was organized on the topic "Coordination equation (Optimum Generation Scheduling)" on 3rd October 2016 for the students of IV year (E and M sections both) at LT- 17.
- Prof. (Dr.)Jayashri Vajpai (Professor, EE department, M B M Engineering College, Jodhpur) delivered an expert lecture to the students of IV Year (E & M sections) on the "Overview of Artificial Intelligence and its Vital Role in the Real World" on 4th October, 2016 at MBA Conference Hall.

## EXPERT LECTURES (EXPERTS FROM WITHIN JGI)

- A series of expert lectures on thrust areas of research were scheduled on every Wednesday from 1:45 pm to 3:45 pm. in the department of Electrical Engineering (JIET). In this connection, Prof. (Dr.) B.L. Mathur delivered an expert lecture on 'Efficient Refrigeration'on Wednesday, 31st August 2016. The lecture introduced the energy efficient features of Smart or Inverter driven refrigerators. All the faculty and staff members of the department along with Prof. (Dr.)RajendraKarwa (Campus Director JIET) and Prof. Vinit Mehta (Asst Prof. (Sr.)) (Department of Electrical and Electronics Engineering, JIET COE) attended this lecture.
- Prof. (Dr.) B.L.Mathur (Head (M.Tech (EE Dept., JIET) delivered an expert lecture to the faculty and staff members of the department on "Flywheel Energy Storage System" on 7th September 2016 at LT-17.
- Prof. (Dr.) B.L.Mathur delivered an expert lecture to the faculty and staff members of the department on "Bio Toilets" on 21th September 2016 at LT-17.
- Prof. (Dr.) B.L.Mathur (Head, M.Tech, EE Dept., JIET) delivered an expert lecture to the faculty and staff members of the department on "LMP Based Tariff in Deregulated Power Market of Tamil Nadu" on 19th October 2016 at LT-17.
- Prof. (Dr.) B.L.Mathur (Head, M.Tech, EE Dept., JIET) delivered a keynote address during the National Conference on "Recent Advances in Environmental Sciences and Engineering Technologies (RAESET-2016 )", organized by JIET from 21- 22 November, 2016. He talked about "Bio digestion of waste".







## EXPERT LECTURES (EXPERTS FROM WITHIN JGI) FOR STUDENTS

- Prof. (Dr.) B.L.Mathur ( Head (PG Course (Dept. of EE (JIET)) delivered an expert lecture to the students of Final Year (Both sections E and M) on "Tidal Energy" on 17th August, 2016 and 19 August 2016 at LT-17.
- Ms. Anamika Choudhary delivered an expert lecture to the students of II Year in M Section on "Friend Function" on 3rd September, 2016 at LT-16.
- Mr. Vinit Mehta (Asst. Prof. (Sr.), Dept. of EE , JIETCOE) delivered an expert lecture to the students of IV Year (sections E& M) on "Heating and Cooling Curves" on 6th September, 2016 at LT-18.
- Prof. Prakash Kanwar Asawat (Associate Prof, Dept. of CSE, JIET) delivered an expert lecture to the students of III Year in E and M sections on "Transaction Concepts" on 8th September, 2016 and 24th September 2016 at LT-16.
- Prof. (Dr.)Rajendra Karwa (Campus Director , JIET) delivered an expert lecture to the students of III Year in E and M sections on "Performance of Flat Plate Collectors" on 9th September 2016 and 10th September, 2016 at LT-17 and LT-18 respectively.
- Mr. Navneet Maru (Assoc. Prof. and Dy HOD (II shift)) delivered an expert lecture to the students of III Year in E and M sections on "Bipolar Junction Transistor" on 30th September, 2016 at LT-17 and LT-18 respectively.
- Prof. Kusum Agarwal (HOD, EE Dept., JIET) delivered an expert lecture to the students of IV Year (E and M sections both) on "Operating Characteristics of Synchronous Machine" on 18th October 2016 at LT-17.
- Prof. (Dr.) Punita Soni (HOD, MBA, JIET) delivered an expert lecture to the students of IV Year (E and M sections) on "Economics for Electrical Engineering" on 21st October, 2016 at LT-17.
- Mr. Navneet Maru (Assoc. Prof. and Dy HOD (I shift)) delivered an expert lecture to the students of III Year (E and M sections) on "Memory Classification" on 17th October, 2016 at JIET Conference Hall.
- Mr. Vinit Mehta (Asst. Prof. (Sr.) Dept. of EEE, JIETCOE) delivered an expert lecture to the students of III Year (E and M sections both) on "Parameters of Transmission Line" on 24th October, 2016 at JIET Conference Hall.
- Mr. Harish Khyani (Assoc. Prof. and Dy HOD (II shift), EE Dept., JIET) delivered an expert lecture to the students of II Year (E and M sections) on "Overview of time domain and frequency domain" on 11th November, 2016 at LT-15.
- Mr. Pratik Bhansali (Asst. Prof., EE Dept., JIET) delivered an expert lecture to the students of II Year E section on "Differential amplifier" on 19th November, 2016 at LT-15.

# FACULTY DEVELOPMENT PROGRAMME 2016

The details of FDP 2016 for the department of EE (Co-ed) & EEE (SETG) from 8/7/16 to 20/7/16 is as follows:

## 8th July

- Overview of FDP Program by Patrons Prof. (Dr.) B.L. Mathur (Head (PG course (EE) (JIET)) and Prof. (Dr.) Sandip Mehta (Dean (Engg.) JIETCOE)
- Lab sessions and experiments on various topics of the EE were conducted on 8th July and 9th July by the faculty members of Dept of EE (JIET) and Dept. of EEE (JIETSETG).

## 18th July 2016: Paper Presentation and JEM Booklet Solution Session

- Presentation on JEM Booklet Solution by Prof.(Dr.) Sandeep Mehta (Dean (Engg. , JIETCOE) on " Fundamentals of Electrical Engineering" .
- Presentation on JEM Booklet Solution by Mr. Harish Khyani (Assoc. Prof. & Dy. Head (I shift) (Dept. of EE (JIET) on " Modern Control Theory"
- Presentation on JEM Booklet Solution by Mr.Navneet Maru ((Assoc. Prof & Dy. Head (I shift) (Dept. of EE (JIET)) on "Advanced Power Electronics" .
- Presentation on JEM Booklet Solution by Mr. Prashant Thanvi (Assoc. Prof & Dy. Head (Dept. of EEE (JIETSETG) on " Electronic Devices & Circuit"
- Presentation on JEM Booklet Solution by Mr. Anil Raghav ( Asst. Prof (Sr.) (Dept. of EEE (JIETSETG) on "Circuit Analysis-I"
- Presentation on JEM Booklet Solution by Mr. Shyam Lal Vishnoi (Asst. Prof. (Dept. of EE (JIET) on "Electrical Measurements "
- Presentation on JEM Booklet Solution by Prof. Chandershekher Singh (Asst. Prof. (Dept. of EE (JIET) on "High Voltage Engg."

## 9th July 2016: Paper Presentation and JEM Booklet Solution Session

- Presentation by Prof. (Dr.) B.L. Mathur (Head (PG course (EE) (JIET)) on "Overview of the Project stage-I "
- Presentation by Prof. Harish Khyani (Associate Prof. & Dy. HOD (I shift) (Dept. of EE (JIET) on "Modern Control Systems "
- Presentation on by Prof. Pooja Verma (Assoc. Prof. & Head (Dept. of EEE, (JIETSETG) on " Digital Electronics "
- Presentation by Mr. Ashwani Kumar Joshi (Assoc. Prof. (Dept. of EE (JIET) on "Power System Engineering".
- Presentation by Mr. Rajeev Vyas (Asst. Prof. (Sr.) (Dept. of EEE (JIETSETG) on "Power Electronics."
- Presentation by Mr. Vinit Mehta (Asst. Prof. (Sr.) (Dept. of EEE (JIETSETG) on " Transmission and Distribution "
- Presentation by Mr. Vineet Gehlot (Asst. Prof. Dept. of EEE (JIETSETG) on "Utilization of Electrical Power"
- Presentation by Mr. Ravi Soni (Asst. Prof. (EE, JIET) on "Overview of the Project stage II "
- Presentation by Ms. Charu Chauhan (Asst. Prof. (Dept. of EE (JIET) on "Power System Analysis".
- Presentation by Mr. Nishant Mathur (Asst. Prof. (Dept. of EEE (JIETSETG) on " EHV AC/DC Transmission "

## 20th July 2016: Paper Presentation and JEM Booklet Solution Session on the following topics:

- Presentation by Prof. Kusum Agarwal (Assoc. Prof & Head (Dept. of EE (JIET)) on "Outcome based Education"
- Presentation by Prof. Harish Khyani (Assoc. Prof & Dy. Head (Dept. of EE (JIET)) on " Modern Control Theory"
- Presentation by Prof. Chandershekher Singh ((Asst. Prof. (Dept. of EEE (JIETSETG)) on " High Voltage Engineering "
- Presentation by Prof. Sharwan Ram Patel ((Asst. Prof. (Dept. of EE (JIET)) on " EHV AC DC Transmission "
- Presentation by Prof. Ramesh Patel (((Asst. Prof. (Dept. of EEE (JIETSETG)) on "Power System Engineering"
- Session by Prof. Kusum Agarwal (Head (Dept. of EE (JIET) on "Winding diagram of Dc motor "
- Visit to 33 kV GSS: Faculty members visited the 33 kV indoor substations at JIET and explored complete channel of supply along with practical aspects of all protection and control accessories installed at substation.





## OPEN HOUSE 2016 RESULTS

### Chart Competition

Position	Names of the Students	Title of the Chart	Semester	Batch
I	Priyal Sharma Purnima Chandak	Skill India	III	E2
II	Ankita Jiyani Niharika Solanki Richa Sharma	Skill Development	V	E1,E2,E2
II	Divya Sharma Anju Himanshu Kalla	Skill Development	III	E1,E1,M2

### Live Model Competition

Position	Names Of The Students	Title Of The Model	Semester	Batch
I	Bhattesh Kumar Mithun Gehlot, Yash Vardhan	Solar Tracker With Security	V	E1,E3,E3
II	Shubham Gang Anuj Surendra	Vision	VII	M2,M1,M2
III	Pushkal Purohit Rishikesh Singh	Cell Phone Detector	III	E2,E3

### Static Model Competition

Position	Names of the Students	Title of the Model	Semester	Batch
I	Balkishan Rajveer Jangir Gaurav Prajapat	Solar Smart City	III	M1,M3
II	Hitesh Devra Himanshu Devra Sanjay Charan	Solar Power Plant	V	M1,M3
III	Hitesh Sukhpal Mohit Soni	Solar Plane	V	E1,E2

# Workshop "Advanced Solar Photovoltaic 2016 'in ISTE Newsletter May 2016

The details of the workshop organized by the department of Electrical Engineering (JIET) on "Advanced Solar Photovoltaic" on 30-31 May 2016 has been published in the newsletter of Indian Society for Technical Education .



Teacher's Day celebration at Sir M Visvesaraiya Seminar Hall, JIET



Visit to Roof top Solar Power plant at JIET during Tutor Meeting



Winning Team of Open House 2016' working project competition at department of Electrical Engineering

**NEWS FROM ISTE FACULTY CHAPTERS**

**RAJASTHAN**

- **Jodhpur Institute of Engineering and Technology, Jodhpur** organised two days national workshop on **Advanced Solar Photovoltaics** on May 30-31, 2016. The Chief Guest of the function Er. Avinash Singhvi, ZCE(Jodhpur Zone), Jodhpur DISCOM and the guest of honour was Dr. P.C. Pande, Former Principal Scientist and Head of Division, CAZRI. Dr. S.L. Agarwal, Chairman, JGI presided over the function. The Valedictory function chief guest was Er. Pankaj Bhandari, Additional General Manager, BSNL, Jodhpur.



Dignitaries on the dias during the inauguration of the workshop.



The chief guest addressing the participants during the Valedictory function.

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Winning Team of Open House 2016' Chart Competition at department of Electrical Engineering



Winning Team of Open House 2016' Static Project Competition at department of Electrical Engineering

# ACADEMIC RESULTS

Batch 2016

## VIII SEM/ Final Year

I Shift

Rank	Name Of Student	Percentage
I	JavedTazak	89.9%
II	BhawanaDwivedi	88.3%
III	Deeksha Singh	86.7%

II Shift

Rank	Name Of Student	Percentage
I	Mohd.Adil	88.8
II	Chitranshu Gaur	88.2
III	Preetesh Kumar Arya	87.4

Batch 2017

## VI SEM / III Year

I Shift

Rank	Name Of Student	Percentage
I	Tofiqe Khan	82.7
II	BhanuPratap Singh	80.8
III	Shaitan Singh Bhati	80

II Shift

Rank	Name Of Student	Percentage
I	MukeshJangid	81.1
II	Anil Sinwar	80.9
III	Laxman Ram Gehlot	80.2

Batch 2018

## III SEM/ II Year

I Shift

Rank	Name Of Student	Percentage
I	Vaibhav Gehlot	86.1%
II	Ankit Gorawat	83.8%
III	VarshitaMathur	83.8%

II Shift

Rank	Name Of Student	Percentage
I	Sanjay Singh Meena	80%
II	Himanshu Birla	79.3%
III	Ramesh	78.8%

## IV Sem/ II Year

I Shift

Rank	Name Of Student	Percentage
I	Neha Patwa	84.5%
II	Niharika Solanki	84.4%
III	Priyanka Kalla	84.2%

II Shift

Rank	Name Of Student	Percentage
I	Narendra Panwar	79.2%
II	Sanjay Singh Meena	79.0%
III	Ramesh	78.8%

# PLACEMENT DETAILS

Students Placements Details (4.3) On Campus  
Session 2016 - 17

S.No	Name of Students	Company	Package
1	Divya Sharma	Infosys,Capgemini	3.25 LPA
2	Karan Hotchandani	Capgemini	3.15LPA
3	Rajat Agarwal	Capgemini	3.15LPA
4	BhanuPratap	Capgemini	3.15LPA
5	MohitSoni	Capgemini	3.15LPA
6	VarshaChampawat	Global Engineering Corporation	2.7 TO 3 LPA
7	NeeluSeervi	Global Engineering Corporation	2.7 TO 3 LPA
8	BhawanaGurnani	Universal Hunt Pvt Ltd	1.8 LPA
9	Manisha Choudhary	Universal Hunt Pvt Ltd	1.8LPA
10	RakshitParihar	Universal Hunt Pvt Ltd	1.8 LPA





## FACULTY ACCOMPLISHMENTS

- Prof. Kusum Agarwal (Head, Dept of EE, JIET) submitted her Ph.D. thesis on 8th October 2016 under the guidance of Prof. (Dr.)Avdhesh Sharma (Professor & Head, Department of Electrical Engineering ,MBM ,Engineering College) on the topic "Performance Maximization Of Grid Connected Small Scale Solar Photovoltaic Power Plants".
- On 11 August 2016, Prof. Kusum Agrawal and Mr..Ravi Soni (Asst. Prof. (Sr.)) attended a workshop on "Design and implementation of Image Processing and computer vision systems using MATLAB" by MathWorks at Vivanta by Taj, Jodhpur.
- Mr..Dhanraj Chouhan (Asst.Prof, EE Dept., JIET) successfully completed 12 week NPTEL online certification course on "Basic Electrical Circuits" organized by IIT, Madras from 25 July 2016 to 18 October, 2016. His certification comes under category of "Elite" for scoring 75% marks in course completion the examination.
- Ms. Anamika Choudhary (Assoc. Prof., Dept. of EE, JIET) participated in a conference on "Opportunities and Challenges in E-Commerce and Digital Marketing" organized on 22ndOctober, 2016at Biyani Group of Colleges, Jaipur. She presented a paper on "A study of Internet Marketing Research in Business Decision Making"
- Mr. Harish Khyani(Assoc. Prof. and Dy HOD (II shift),EE Dept., JIET) attended a short term course on "DC Smart Grids: Renewable Integration, Energy Storage and System Operation" organized by, Malaviya National Institute of Technology (MNIT), Jaipur (Rajasthan) from November 10-14, 2016.
- Mr..Ravi Soni (Asst. Prof (Sr.), EE Dept., JIET) successfully completed his Master of Engineering on 16 November, 2016 with specialization in Control Systems on "PSO based design of PID controllers for unstable plants", under the guidance of Prof.(Dr.)Jayashri Vajpai (Professor, Department of Electrical Engineering, MBM Engineering College, JNV University, Jodhpur)
- Mr.Harish Khyani(Assoc. Prof. and Dy HOD (II shift)EE Dept., JIET), Prof.Vineet Gehlot (Asst Prof and IPC Coordinator, EE Dept., JIET )and Mr..Balram Joshi (Asst.Prof, EE Dept., JIET) participated in the National Conference "Recent Advances in Environmental Sciences and Engineering Technologies (RAESET-2016 )", organized by JIET from 21- 22 November, 2016. They presented paper on "Efficiency Enhancement of Photovoltaic Modules: A Review of Cooling Techniques".
- Mr. Ashwani Joshi (Associate Professor) attended a seminar on "Electrical Drive , Control and Automation for Industries " On 6th December 2016 by Fuji Electric India Pvt Limited, at Park Plaza, Jodhpur.

# STUDENTS' ACCOMPLISHMENTS

- Rakshit Parihar and Yash Bohra (Students of Final year (VII sem)) completed a summer internship of 2 months (23rd May to 23rd July) as a part of industrial training of III Year (VI sem) at Hindustan Petroleum Corporation Limited (HPCL), Salawas, Jodhpur. A project on "Cathodic Protection (C.P) of the 93 Km fuel (High speed diesel, motor spirit and supreme kerosene oil) pipeline was allotted to them. A stipend of amount rs.10, 000 was paid by the company at the end of the internship along with a certificate.
- Rishab Bafna (Final Year (VII sem)(EE)) completed industrial training at Reliance Infrastructure Ltd. (Reliance Energy), Mumbai. During training a project on "The Contingency Analysis on company's Six New Feeders on Existing Station" was allotted to him. This project assigned during practical training enabled him to shift loads whenever fault occurs at substation along with training completion certificate.
- Mr.MithunGehlot, Mr.Bhattesh Kumar and Mr.YashVardhan the winning team of Live Project competition, Open house 2016, EE, JIET participated in the project exhibition organized by Institute of Engineers, (India), Local Chapter, Jodhpur on Engineer's day.
- Mr.Anuj Bohra (B.Tech V Sem, M section) won a Gold medal at Inter College Table Tennis Tournament organized by Rajasthan Technical University at Shankara Institute of Technology, Kukas, Jaipur .Mr.Bohra has also been selected in the Table Tennis team of Rajasthan Technical University, Kota for West Zone Inter College Tournament.
- Mr.BhanuPania has been selected in the Cricket Team of Rajasthan Technical University, Kota for West Zone Inter College Tournament.
- Mr. BhanuPania (B.Tech V Sem, M section) was awarded "Man of the Series" for Cricket at VARCHAS'16 organised by IIT Jodhpur.

## VARCHAS'16 (29 SEP TO 2 OCT 2016)

### RESULTS

S.No.	Name of Student	Name of the Sports	Year	Medals
1	BhanuPaniya	Cricket	III (II Shift)	Bronze
2	Navkarsingh	Cricket	IV (II Shift)	Bronze
3	DhurvikaChoudhary	Badminton	II(II Shift)	Silver
4	Shaheen Rao	Badminton	II(II Shift)	Silver

- Bhattesh Kumar, MithunGehlot and YashVardhan (V Sem Electrical Engineering students) participated in SDP on "Solar Vehicle Design and Manufacturing " organized by Imperial Society of Innovation Engineers.
- YashGehlot and Rohan Vyas (III Sem) participated in a two day workshop, "Autonomous Robotics " at IIT, Delhi o from 22 October and 23 October 2016.
- Ms.DhruvikaChoudhary of III Sem EE (II Shift) participated in Skit competition "RANGMANCH" at Manipal University on 23-24 October 2016.
- Mr.Rohan Vyas and Mr. Chandransh Sharma participated in a panel discussion organized by Department of Indian Railways ,Jodhpur Division on topic "Public Participation in promoting integrity and eradicating Corruption " on 5th November 2016
- Mr.RajatSoni and Ms. GarimaJaggi participated in an essay competition organized by Indian Oil Corporation Limited. Western Region Pipelines, Salwas, Jodhpur on topic "Public Participation in promoting integrity and eradicating Corruption " on 5th November 2016.





# IQ TEST

- Electrostatics is a branch of electricity concerned with
  - Energy flowing across a gap between conductors
  - Charges at rest
  - Charges in motion
  - Energy in the form of charges
- Four  $2\ \mu\text{F}$  capacitors are connected in series. The equivalent capacitance is
  - $8\ \mu\text{F}$
  - $0.5\ \mu\text{F}$
  - $2\ \mu\text{F}$
  - $6\ \mu\text{F}$
- State which of the following is false.  
The capacitance of a capacitor
  - Is proportional to the cross-sectional area of the plates
  - Is proportional to the distance between the plates
  - Depends on the number of plates
  - Is proportional to the relative permittivity of the dielectric
- The capacitance of a capacitor is the ratio
  - Charge to potential difference between plates
  - Potential difference between plates to plate spacing
  - Potential difference between plates to thickness of dielectric
  - Potential difference between plates to charge
- Which of the following statement is false?
  - An air capacitor is normally a variable type
  - A paper capacitor generally has a shorter service life than most other types of capacitor
  - An electrolytic capacitor must be used only on a.c. supplies
  - Plastic capacitors generally operate satisfactorily under conditions of high temperature
- The potential difference across a  $10\ \mu\text{F}$  capacitor to charge it with  $10\text{mC}$  is
  - $10\text{V}$
  - $1\text{kV}$
  - $1\text{V}$
  - $10\text{V}$
- The energy stored in a  $10\mu\text{F}$  capacitor when charged to  $500\text{V}$  is
  - $1.25\text{ mJ}$
  - $0.025\ \mu\text{J}$
  - $1.25\text{ J}$
  - $1.25\text{ C}$
- The capacitance of a variable air capacitor is at maximum when
  - The movable plates half overlap the fixed plates
  - The movable plates are most widely separated from the fixed plates
  - Both sets of plates are exactly meshed
  - The movable plates are closer to one side of the fixed plate than to the other
- The unit of magnetic flux density is the:
  - Weber
  - Weber per metre
  - Ampere per metre
  - Tesla
- The charge on a  $10\text{ pF}$  capacitor when the voltage applied to it is  $10\text{ kV}$  is
  - $100\ \mu\text{C}$
  - $0.1\text{ C}$
  - $0.1\ \mu\text{C}$
  - $0.01\ \mu\text{C}$



# TEST IQ

## ANSWER KEY

1. B	2. B	3. B	4. A	5. A
6. B	7. C	8. C	9. D	10. C

Work

Team



### **PATRON**

Prof. (Dr.) Rajendra Karwa  
Campus Director - JIET



### **CHIEF EDITOR**

Dr. Ankita Mehta  
Associate Prof. (English)  
Member - Personality &  
Skills Development (PSD), JGI



### **FACULTY CO-ORDINATOR**

Mr. Vineet Gehlot  
Dept. of Electrical Engg.



### **JAS MEMBER**

Ms. Preeti Kumari



### **DESIGN & LAYOUT**

Mr. Anil Chandora (Admin)



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## **JIET GROUP OF INSTITUTIONS**

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