



JODHPUR INSTITUTE OF
ENGINEERING AND TECHNOLOGY



Infacephelan

B. Tech. (Department of Information Technology)
Issue - 14 | December, 2016



JIET

Group of Institutions

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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.



IN THE WORDS OF THE HEAD

I welcome all the students & their parents to the Department of Information Technology. Information Technology is an essence of today's world. We are committed to providing not only the technical education to our students but also the leadership qualities through which they can create employment to others.

The entire teaching fraternity of the Department of Information Technology look forward to the holistic growth of the department and they aim at doing something extraordinarily remarkable in the academic arena of Information Technology. I congratulate to the team of faculty members and the students for their brilliant and original efforts and I am happy to inform that our pride rests in the Bi-annual newsletter Infocephelon which highlights the academic and non-academic activities of both staff and students of the Department. I wish all the students and faculty members, a great academic career.



Prof. Pankaj Acharya
HOD, IT (JIET)

EDITOR'S MESSAGE

The 3rd E- issue of the Half Yearly newsletter, Infocephelon chronicles the activities of the Dept. of Information Technology (JIET) in the past six months from July to December 2016. I really believe that no matter whether a magazine is delivered to your doorstep or to your computer, printed on glossy stock or on cheap tabloid paper, appearing on your iPad or your cell-phone screen, it is still and foremost the work of an editorial team for a discerning audience, a beautiful and meaningful. I hope a package of ideas, words and images that a group of experts prepares for its readers.

Happy reading!



Mr. Manish Gehlot
Assistant Professor (Sr.)
IPC Coordinator, IT



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FACULTY DEVELOPMENT PROGRAMME 2016

An FDP Programme was organized from 08 July to 23 July 2016 with lectures, lab sessions in different domains (WEB Development Lab, Image Processing Lab, and Network lab) from the faculty members of IT Dept., online/offline test. The details are as follows:

- Mr. Manish Gehlot (Asst. Prof. (Sr.)) delivered an expert lecture on "Short Tricks to solve Tree Traversal Questions for GATE exam" in the Stream "Algorithms & Computing Theory" on 9th July 2016.
- Ms. Shubha Agarwal (Asst. Prof.) delivered an expert lecture on "Basics of Software Project Management" in Stream "Software Engineering".
- A one day session was taken in advance JAVA by DUCAT Company on 20th July 2016. The resource persons from the DUCAT Company told about the company profile, student project training and concepts of advance JAVA. After the session, a practical lab session on the installation of server and practical concepts was conducted by DUCAT.

WORKSHOP

- A three day workshop was conducted by WSCube Technologies on 'Search Engine Optimization' on 15, 16 and 18 July 2016. The resource person was Mr. Kushagra Bhatia (Director WS Cube Technologies). In three days' workshop, faculty members learned about different types SEO techniques with practical session that how to increased website ranking by different methods of SEO.



EXPERT LECTURES (EXPERTS FROM WITHIN JGI)

S.No.	Name of the Expert	Date	Topic	Year (Sem.)
1.	Mr. Rajendra Purohit (Assoc. Prof. Dept. of CSE ,JIET)	August, 17 2016.	“Application of ISS and Number Theory.”	Final Year (VII)
2.	Ms. Arshi Riyaz (Sr. Asst. Prof. CSE ,JIET)	August, 09 2016.	“Introduction and Application of Computer Graphics.”	Final Year (VII)
3.	Ms. Prakash Kanwar (Sr. Asst. Prof. CSE ,JIET)	August, 11 2016.	“Optimization of Query in Query Evaluation Engine.”	Final Year (VII)
4.	Mr. Vinay Mathur(Sr. Asst. Prof. (CSE ,JIET-COE)	August, 06 2016.	“Difference between UNIX and WINDOWS File System”	II (III)
5.	Mr. Suresh Kumar Jha(Asst. Prof. CSE ,JIET)	August, 13 2016.	“How to convert PSD to HTML.”	Final Year (VII)
6.	Mr. Rajeev Singh (Asst. Prof. CSE ,JIET)	August, 25 2016.	“Management of Software in Industry	Final Year (VII)
7.	Mr. Rajeev Singh (Asst. Prof. CSE ,JIET)	August, 25 2016.	“Introduction of Data Warehouse and Classification of Data Warehouse.”	Final Year (VII)
8.	Ms. Shikha Rani (Asst. Prof. ECE ,JIET)	August, 26 2016.	“Introduction to Data Structures and calculating the Time Complexity of Algorithm.”	II (III)
9.	Ms. Priyanka Rani (Lecturer CSE,JIET)	August, 17 2016.	“Basics of Relational Algebra”	Final Year (VII)
10.	Prof. Mamta Garg (Head, CSE ,JIET)	September, 09 2016.	Object Oriented Programming: Constructor and Destructor	II (III)
11.	Dr. Sandeep Mathur (Prof. Maths ,JIET)	November , 18 2016.	Overview of Unit I	II (III)
12.	Dr. Kamlesh Bhandari (Prof. Maths ,JIET-COE)	November , 19 2016.	Overview of Unit II	II (III)

TEACHERS' DAY CELEBRATION

Teachers' Day was celebrated on 5th September 2016 in last two lectures in IT department. A programme was organized by Final year and II year students. Almost 40 students and 4 faculties with 2 staff members attended the celebration. The celebration was commenced with a cake cutting ceremony by Prof. Pankaj Acharya (HOD, IT). Some fun activities were conducted for faculty members i.e. Musical Chair, Mind Questions, Mimicry etc. II Year and Final Year students, Ashwini Charles, Shreyansh Mathur and Harshit Tilawat performed solo dances. In the end, all faculty members of IT department addressed the students and vote of thanks was delivered by the Head.



OPEN HOUSE-2016

"Open House - 2016" was celebrated on September 15, 2016 and September 16, 2016. This year, the theme of Open House-2016 was "Skill Development for Young Engineers to Reform the Core Sector: Vision 2025". The students of Information Technology made charts, non-working models and working models. The details are as follows:

WORKING MODEL:

S. No.	Title of Model	Names of Students	Semester
1.	Bank Management System	Jay Ostwal	III
2.		Vaibhav Sharma	III
3.	The Bounce Game	Jaitavya Mishra	III
4.		Jay Ostwal	III
5.	The Game: Quiz	Shreyansh Mathur	III
6.		Tarun Agarwal	III
7.	The Student Database Management	Kapil Swami	III
8.		Dheeraj	III
9.		Bharath Chittara	III
10.	CM_App	Mohit Gurbani	III
11.		Chirag Bhandari	III
12.		Chandra Prakash Goyal	III
13.	Mind Reader Game	Lucky Shobnani	VII
14.		Manish Bharti	VII
15.	FTP Server	Lucky Shobnani	VII
16.		Manish Bharti	VII
17.	GroupChat Server	Kishore Bhagya	VII
18.	Mini Game	Jitender	VII
19.		Rahul Yadav	VII
20.		Suresh Kumar Sen	VII
21.	Jain College Website: Live Website	Kamajot Kaur	VII

STATIC MODEL:

S. No.	Title Of Model	Names Of Students	Semester
1.	Smart House	Raj Kumar Kachhawaha	III
		Shreyansh Mathur	
		Siddharth Sharma	
2.	Cloud Computing Model	Naresh Prajapat	VII
		Sunil Nangliya	
3.	Railway Anticollision System	Jitender Mandhaniya	VII
		Suresh Kumar Sen	
		Rahul Yadav	

CHARTS AND POSTERS :

S. No.	Title of Chart	Names of Students	Semester
1.	E-Environment	HarGovind	3
2.	Evolution In Gaming	Lucky And Happy	7
3.	Education	Naresh	7

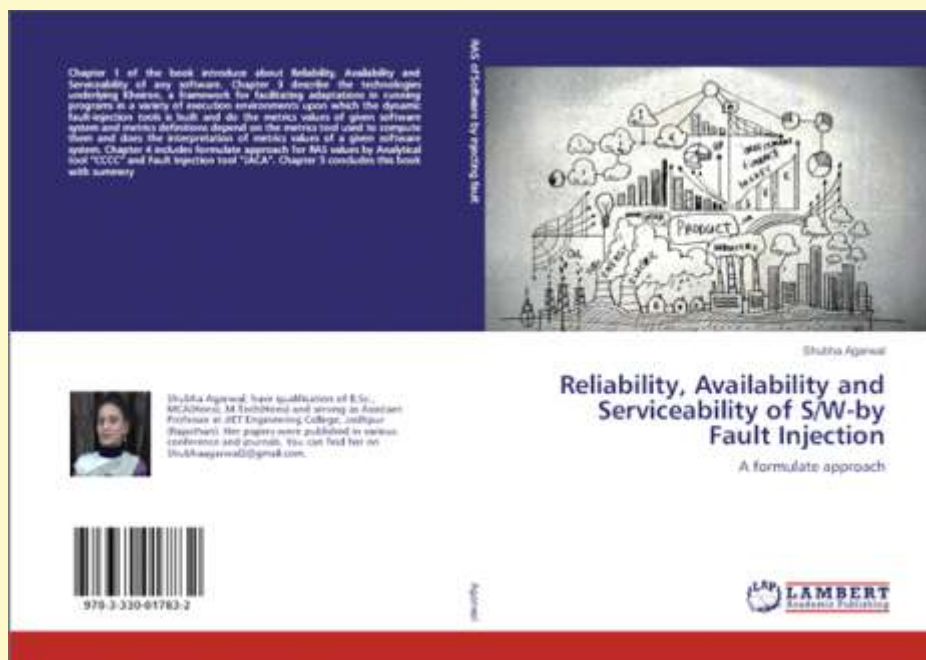
OPEN HOUSE 2016

Results :

- Jitender Mandhaniya, Rahul Yadav, Suresh Kumar Sen got III position in Model (Live) Competition.
- Jitender Mandhaniya, got III position Charts and Poster Competition.

FACULTY ACCOMPLISHMENTS:

Ms. Shubha Agarwal (Asst. Prof. IT Dept.) has authored a book titled "Reliability, Availability and Serviceability of software by Fault Injection". It has been published internationally by LAMBERT Academic Publishing. Its ISBN number is 978-3-330-01783-2.



STUDENT ACCOMPLISHMENTS:

III Sem students participated in 2 days' workshop on "Cloud Computing" at IIT, Delhi during "Robothon 2016" on 21st – 24th Oct 2016 organized by Robosapiens Technologies Pvt. Ltd. The names of students who participated in this workshop are as follows:-

- Rajat Jain
- Rama Ram Dhayal
- Shreyansh Mathur
- Mohit Jangid
- Mohit Gurbani
- Raj Kumar Kachhawaha
- Chandra Prakash Goyal
- Chirag Bhandari
- Pravesh Kachhawaha (IV Year , IT branch) attended a 5 day Training Program on "Covering Bosch Wheel Aligner, Wheel Balancer, Tyre Changer, Vehicle Air-conditioning System and Nitrogen Tyre Inflator" from 17th – 21st Oct 2016 at Bosch Training Centre, Naganathapura, Bangalore.
- Aatish Choudhary (IV Year) played as a Captain in the Cricket team and participated in IIT,Jodhpur's "Varchas-2016". The Cricket Team under his captaincy won bronze medal in the region.



PLACEMENTS



Capgemini



Lucky Shobnani
(VI Year, IT)

RESULTS

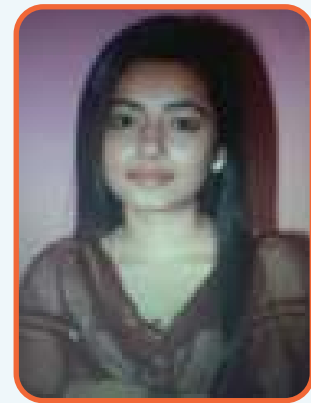
III Year (VI Sem.)



Kishor Kumar Bhagya
78.4%



Suresh Kumar Sen
76.9%



Kamaljot Kaur
76.7%

VI Year (VII Sem.)



Khyati Shrivastava
86.3%



Sweta Mathur
83.8%



Irshad Ahmad
83.6%

TEST YOUR BRAIN!

- (1) The set of instructions that tells the computer what to do is Incorrect!
A. Softcopy
B. Software
C. Hardware
D. Hardcopy
- (2) What is e-commerce? Correct!
A. Buying and selling computer products
B. Buying and selling products and services not found in stores
C. Buying and selling international goods
D. Buying and selling products and services over the Internet
- (3) 'Blue tooth' technology allows Incorrect!
A. Satellite communication
B. Wireless communication between equipment's
C. Signal transmission on mobile phones only
D. Landline phone to mobile phone communication
- (4) Allocation of a resources in a time dependent manner to several program simultaneously called:-
A. multi user
B. multi-tasking
C. time sharing
D. None of these.
- (5) Which of the following are true about firewalls? Incorrect!
A. Follows a set of rules
B. Can be either a hardware or software device
C. Filters network traffic
D. All the above
- (6) 1024 bytes equals:
A. 1 KB
B. 1 MB
C. 1 GB
D. 1 TB
- (7) The term 'Pentium' is related to Incorrect!
A. DVD
B. Hard Disk
C. Mouse
D. Microprocessor
- (8) Which of the following is a valid IP address? Incorrect!
A. 192.168.111.1111
B. 192.168.1.1
C. 192.168.900.1
D. 192.900.168.1
- (9) Which of the following is a correct format of Email address? Correct!
A. sales@website@info
B. sales@website.info
C. saleswebsite.info
D. sales.website.info
- (10) Identify false statement
A. You can find deleted files in recycle bin
B. You can restore any files in recycle bin if you ever need
C. You can increase free space of disk by sending files in recycle bin
D. You can right click and choose Empty Recycle Bin to clean it at once

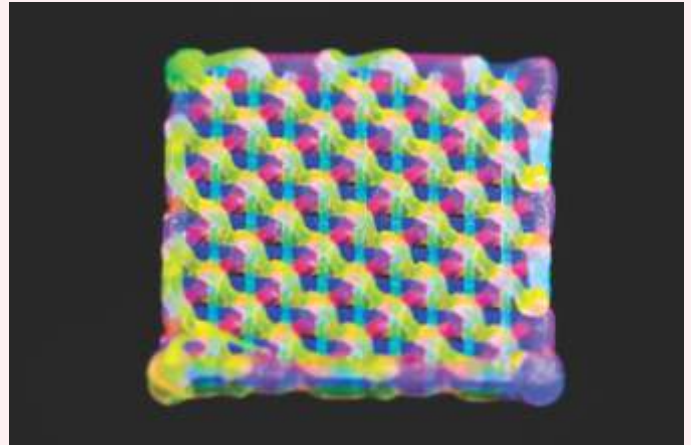
ANSWERS:

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

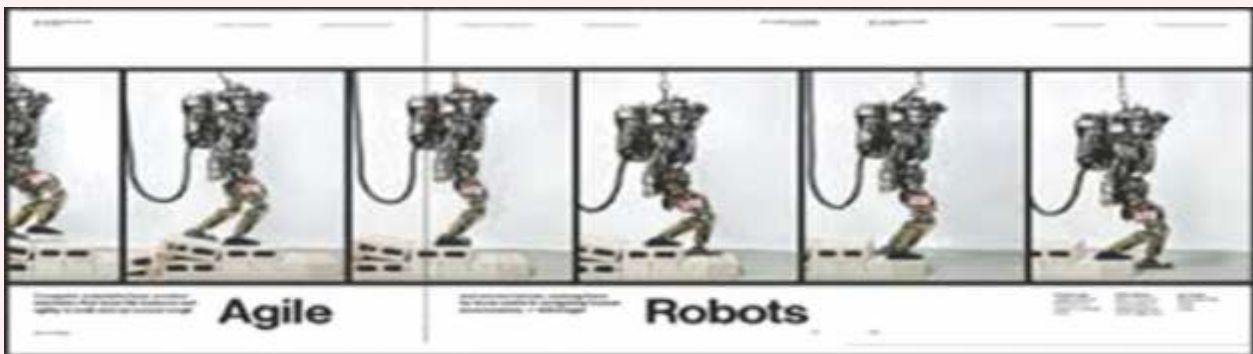


TOP INNOVATIONS IN 2016

MICROSCALE 3-D PRINTING : The potential of 3-D printing technology has many people excited about new applications. But current printers have important limitations. Up until recently, most 3-D printers can only use plastic. A group of researchers at Harvard University, led by Jennifer Lewis, have started to develop new 3-D printer inks. Her team prints intricate objects using materials that are chosen based on their mechanical properties, electrical conductivity, or optical traits. Eventually new inks will enable a wider variety of functions, including artificial organ creation.



AGILE ROBOTS : Taking a single step requires balance, coordination, force, and direction. Each of these factors has presented unique challenges for engineers designing robots that can walk. Enter Boston Dynamics who have experimented with the “dynamic balance”—a feature that allows robots to maintain balance while walking. Recently, they successfully created a robot that can walk across uneven and unsteady terrain. This new innovation opens doors for the greater use of robots in emergency operations or helping elderly and disabled individuals with chores and daily tasks. While the technology is still in the developmental stage, Boston Dynamics knows that the robots need to walk, before they can run.



NEUROMORPHIC CHIPS : Many companies around the globe are working towards blurring the lines between biological systems and man-made creations. Qualcomm is making significant steps in developing artificial intelligence system with the use of Neuromorphic Chips. These chips blend neurology into traditional technologies like smartphone chips. Qualcomm is already testing chips in small robots that allow the machines to perform tasks that typically require a custom computer. The chips can process sensory data through sight and sound in order to respond in ways that are not explicitly programmed. For example, the chips could anticipate user needs.

REUSABLE ROCKETS : Rockets typically are destroyed on their maiden voyage. But now they can make an upright landing and be refueled for another trip, setting the stage for a new era in spaceflight.

Source :

- <https://www.technologyreview.com/s/600767/10-breakthrough-technologies-2016-reusable-rockets/>
- <https://www.brookings.edu/blog/techtank/2014/06/10/10-new-innovations-that-could-change-the-world/>



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