



JIET COLLEGE OF ENGINEERING

INSIGHT

B. Tech., (Department of Computer Science and Engineering (CSE, JIETCOE))
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JIET

Group of Institutions

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HOD'S MESSAGE

We are what we repeatedly do. Excellence, then, is not an act, but a habit.

– Aristotle

Dear Student,

"Explore CSE beyond your coursework. There's a lot more to the industry than what you see in syllabus." Always think through problems and situations in a logical manner. And reinforce your understanding of what you learn in classes through real-world applications. Beside subject specializations accentuate on your project/seminar/training. Most students benefit tremendously from doing good summer training/internships. Internships complement coursework by allowing students to work intensively on a single project using modern technology.

Also many employers care deeply about "soft skills" - written and oral communication, teamwork, time management. Communicating your ideas and organizing yourself are necessary for your technical skills to be useful. Gain experience in these areas. In a fast moving technical domain like computer science and engineering, continuing learning and keeping yourself updated is a necessity.

The objective of the department is to produce smart and skilled technocrats, with excellent practical skills. I am sure that the students of the department will show a high level of professional competence in their respective areas. I wish my students all the best for all their endeavors.

Finally, congratulations to the editorial team for bringing out a quality biannual newsletter.



EDITOR'S MESSAGE



"Leadership and learning are indispensable to each other."

I thank and congratulate everyone involved in the making of this newsletter and offer my warm regards for them. My message is regarding leadership skills for the youth readers i.e. our students. Here are some tips which are very useful to evolve yourself as a leader. First, Identify the people who inspire you, and find out what makes them tick.

Second, develop a portfolio of projects. Participate in every hands-on, experiential learning opportunity that a balanced schedule allows. This way, you'll have something unique to show a prospective employer when you graduate. Third, Learn the value of networking. When it comes to being a leader, whom you know is almost as important as

what you know. Attend lectures on your campus and introduce yourself to the speakers. Check with your college's alumni association to get a list of alumni from your program who wants to connect with undergraduates. Fourth, Work in teams as much as you can. Whether it's creating an embedded automation setup, participating in a sport, or writing for the conference paper, get involved with those people that require a team effort to produce great results. Fifth, Seek informal leadership roles. You're always a leader, whether you're officially in charge of a team or not. Sounds counterintuitive, but you can lead from any position in a team by influencing how people work together and how they make decisions. Sixth, Find your flaws—and fix them. As with any skill, leadership needs constant improvement. When you are part of a team, try to create a way to get feedback from team members, group leaders, and professors.

At last I would say that do and enjoy what you do.



ORIENTATION PROGRAM

A six day orientation program for students of II, III and IV year was organized in department of CSE from July 28th to August 3rd. Various sessions were held regarding information in career opportunities in CSE branch, GATE preparation, project development, paper presentation and ways to crack Company Written Test. These sessions were taken by HOD, Dy. HOD and Campus Director.

OPEN HOUSE 2016

Working Model & Project

RANK	NAME OF THE STUDENT	CODE	TITLE OF THE PROJECT
1	Anisha Kumari	JIETCOE/CS/WM33	MNC Network Implementation with security
2	Shalini Tak	JIETCOE/CS/WM10	Easy Stock
3	Simran Kataria	JIETCOE/CS/WM30	GOOGLE MAP/Services Test- ANDROID APP

Non - Working Model & Project

RANK	NAME OF THE STUDENT	CODE	TITLE OF THE PROJECT
1	Anjali Baid Divya Gupta Kanika Goyal	JIETCOE/CS/NWM04	VOLTE v/s VOIP (JIO)
2	Preeti Parihar	JIETCOE/CS/NWM02	Cloud Based GPS Technology & its use cases
3	Pooja Rajpurohit Priyanka Deora	JIETCOE/CS/NWM01	Smart City

Charts

RANK	NAME OF THE STUDENT	CODE	TITLE OF THE PROJECT
1	Kokil Agnihotri	JIETCOE/CS/C43	3D Internet
2	Kanika Goyal	JIETCOE/CS/C30	Heptic
3	Sakshi Kotwani	JIETCOE/CS/C33	Future of DBMS

VIII Semester 2016

Top Three Rankers		
Rank 1	Khushbu Maheshwari	84.80%
Rank 2	Ruchi Raj	83.10%
Rank 3	Shweta Garg	83.00%

VI Semester 2016

Top Three Rankers		
Rank 1	Meghna Kumari	81.00%
Rank 2	Nikita Mishra	80.70%
Rank 3	Niharika Mathur	79.70%

IV Semester 2016

Top Three Rankers		
Rank 1	Ranu Singhal	82.10%
Rank 2	Khyati Jain	82.00%
Rank 3	Mansi Chouhan	80.00%

FDP '16

FDP '16 for Department of CSE was held from July 8th to July 19th. During FDP all faculty members were enriched with various expert lectures and lab sessions. Laboratory sessions were also been conducted in NS-2, Image Processing and Web Development which were beneficial for everyone from practical aspect. Each faculty member submitted 3 to 5 project proposals on which they wanted final year students to work as a part of their syllabus.



WORKSHOP

- A workshop on "Virtual Lab" was conducted on 6th September '16 at JIET COED. A total of 13 students of III Year CSE (JIET COE) were selected for this 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 (WSCube 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.

INDUSTRIAL VISIT

The students of III Sem (II year) visited the WSCubeTech company on 26th September '16. A total of 46 students and two faculty members were part of the visit. There were sessions conducted on the working of an IT company and the services they provide; and about the creation of own android and apple phone applications.



EXPERT LECTURES

- Mr. Vinay Mathur (Asst. Prof. (Sr.) and Dy. HOD, CSE, JIETCOE) delivered an expert lecture on the topic "Templates and Exception handling" to the students of II Year (CSE).
- Prof. (Dr.) K.R. Chowdhary (Campus Director JIET COE) delivered an expert lecture on "The Key to Privacy in ISS" to IV Year (VII Sem) students on 14th October '16. Total 55 students attended the lecture.
- Ms. Prakash Kanwar (Assistant Prof.) delivered an expert lecture on "Transactions in DBMS" to III Year (V Sem) students on 6th October '16.
- Ms. Kamna Agarwal (Associate Professor) delivered an expert lecture on 'Division Algorithm' to III Year (V Semester) students on 27th September '16.
- Mr. Vinay Mathur (Dy. HOD (CSE)) delivered an expert lecture on 'CPU Scheduling' to III Year (V Semester) students on 9th and 10th September '16.

FACULTY ACCOMPLISHMENTS

- Ms. Simran Choudhary (Assoc. Prof. and Head, Dept. of CSE, JIETCOE) has authored a book titled, "Mobility & Cache Management over Ensecure Routes in Adhoc Network". It has been published internationally by LAMBERT Academic Publishing. Its ISBN number is 978-3-659-97340-
- Mr. Rahul Bhandari (Asst. Prof. (Sr.) has authored a book titled, "Analysis of Motion Estimation Algorithms for Video Compression". It has been published internationally by LAMBERT Academic Publishing.
- Mr. Mitesh Sharma (Asst. Prof) has presented a paper in "II-ETEBMS'16" The title of the paper is "A Survey of Various Optical Image Encryption Techniques."



- Mr. Mitesh Sharma (Asst. Prof) has published a paper in International Journal for Technological Research in Engineering. The title of the paper is "A Review of Major Security Issues in Cloud Computing".
- Ms. Rajshree Jodha (Assoc. Prof., Dept of CSE, JIETCOE) has participated in a National Workshop on "Intellectual Property Rights" at Mahaveer Institute of Technology and Science, Jadan (Pali)



PLACEMENT SCENARIO

COMPANY	NO. OF PLACEMENTS
INFOSYS	10
CAPEGEMINI	7
SKILLROCKS	1
UNIVERSAL HUNT	1

STUDENT ACHIEVEMENTS

- Kumari Anisha (IV Year, CSE) secured first position in National Network Security Championship organised at IIT Kanpur. She was rewarded with a laptop worth Rs. 70,000.
- Shreya Dhingra and Kavita Choudhary (CSE, III Sem students) participated in the Inter College Debate (Hindi) held at Lachoo Memorial College of Science and Technology on 22nd October '16.
- Astha Srivastava (CSE, VII Sem) has been appointed as Internshala Student Partner.
- Yashi Ranjan Sharma and Kanika Mathur (CSE, V Sem students) have won Gold medals in PPT making (NCC Camp at Udaipur)
- Tejaswi (CSE, V Sem) has won Gold medal in Board Making (NCC Camp at Udaipur)
- Ms. Astha (B.Tech Final Year (CSE branch, JIETCOE)) submitted her article on "Bio- Computing" in Innovation Jockey Competition organized by Accenture and the same has been published on its website.
- Poonam Siyag of V sem, got selected for 'Mobile APP Development' internship at Competopedia India Pvt. Ltd. Through Internshala.
- Arushree Vyas stood V in 'Panel Discussion' on topic "Public Anticipation" in eradicating corruption, held on Nov 5, 2016

NEW INITIATIVES

- CSE department has taken an initiative to provide students of all semesters with the model test papers of all subjects as an assignment to be done in their Deepawali vacations.
- An interaction session was organized for the Final year students with some of the placed students of 2016 Alumni batch on 16th August. The seniors gave the Final Year students some useful tips on the 'Dos and don'ts of pre-placement selection to be followed during campus drives.
- A new initiative has been started by the department of CSE in order to make students aware about the new and latest technological innovations. In this regard, the faculty members of the department will prepare an article every fortnight on any of the latest technological innovations and the same will be displayed on the notice board for the entire fortnight.



TECHNICAL QUESTIONS

1. When you know programming, what is the need to learn software engineering concepts?
A person who knows how to build a wall may not be good at building an entire house. Likewise, a person who can write programs may not have knowledge of other concepts of Software Engineering. The software engineering concepts guide programmers on how to assess requirements of end user, design the algorithms before actual coding starts, create programs by coding, testing the code and its documentation.
2. What is software process or Software Development Life Cycle (SDLC)?
Software Development Life Cycle or software process is the systematic development of software by following every stage in the development process namely, Requirement Gathering, System Analysis, Design, Coding, Testing, Maintenance and Documentation in that order.
3. What are SDLC models available?
There are several SDLC models available such as Waterfall Model, Iterative Model, Spiral model, V-model and Big-bang Model etc.
4. What are various phases of SDLC?
The generic phases of SDLC are: Requirement Gathering, System Analysis and Design, Coding, Testing and implementation. The phases depend upon the model we choose to develop software.
5. What are the features of Database language?
A database language may also incorporate features like: DBMS-specific Configuration and management of storage engine Computations to modification of query results by computations, like summing, counting, averaging, grouping, sorting and cross-referencing Constraint enforcement Application Programming Interface.
6. Define database model.
A data model determining fundamentally how data can be stored, manipulated and organised and the structure of the database logically is called database model.
7. Enlist the advantages of normalizing database.
Advantages of normalizing database are:
 - No duplicate entries
 - Saves storage space
 - Boasts the query performances.
8. What restrictions can you apply when you are creating views?
Restrictions that are applied are:
 - Only the current database can have views.
 - You are not liable to change any computed value in any particular view.
 - Integrity constants decide the functionality of INSERT and DELETE.
 - Full-text index definitions cannot be applied.
 - Temporary views cannot be created.
 - Temporary tables cannot contain views.
 - No association with DEFAULT definitions.
 - Triggers such as INSTEAD OF is associated with views.
9. What is kernel?
Kernel is the core of every operating system. It connects applications to the actual processing of data. It also manages all communications between software and hardware components to ensure usability and reliability.
10. What are real-time systems?
Real-time systems are used when rigid time requirements have been placed on the operation of a processor.

It has well defined and fixed time constraints.

11. What is virtual memory?

Virtual memory is a memory management technique for letting processes execute outside of memory. This is very useful especially is an executing program cannot fit in the physical memory.

12. What are layers in OSI model? There are total 7 layers:

- Physical Layer
- Data Link Layer
- Network Layer
- Transport Layer
- Session Layer
- Presentation Layer
- Application Layer

13. What are the differences between Hub, Switch and Router?

Hub	Switch	Router
Physical Layer Device	Data Link Layer Device	Network Layer Device
Simply repeats signal to all ports	Doesn't simply repeat, but filters content by MAC or LAN address	Routes data based on IP address
Connects devices within a single LAN	Can connect multiple sub-LANs within a single LAN	Connect multiple LANs and WANS together.
Collision domain of all hosts connected through Hub remains one. i.e., if signal sent by any two devices can collide.	Switch divides collision domain, but broadcast domain of connected devices remains same.	It divides both collision and broadcast domains,

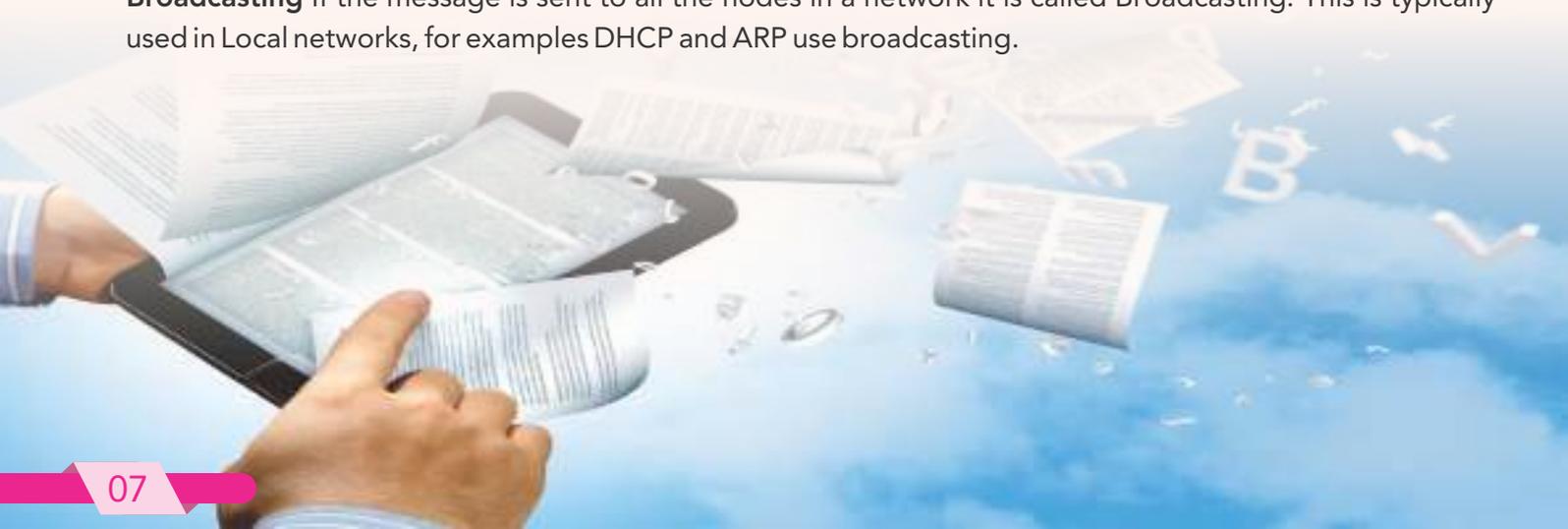
14. What are Unicasting, Anycasting, Multicasting and Broadcasting?

Unicasting If the message is sent from a source to a single destination node, it is called Unicasting. This is typically done in networks.

Anycasting If the message is sent from a source to a any of the given destination nodes. This is used a lot in Content delivery Systems where we want to get content from any server.

Multicasting If the message is sent to some subset of other nodes, it is called Multicasting. Used in situation when there are multiple receivers of same data. Like video conferencing, updating something on CDN servers which have replica of same data.

Broadcasting If the message is sent to all the nodes in a network it is called Broadcasting. This is typically used in Local networks, for examples DHCP and ARP use broadcasting.



Work

Team



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