MAJOR ACTIVITIES IN 2015
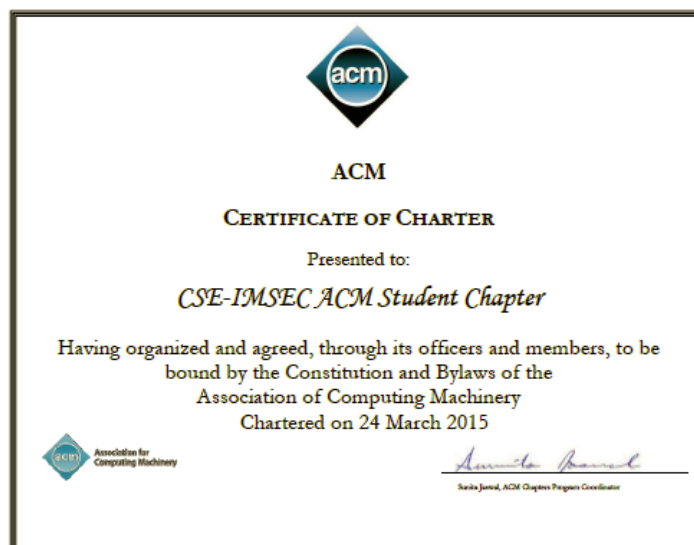

Faculty get together on 1st Jan 2015

ESTABLISHMENT OF ACM STUDENT CHAPTER

FACULTY DEVELOPMENT/SHORT TERM PROGRAM

Faculty Development Program on Latest Trends and Researches on Machine Learning (15 Jan 2015 - 20 Jan 2015)

Department of Computer Science and Engineering organized a **Faculty Development Program**on **"Latest Trends and Researches on Machine Learning"** from **15 Jan 2015 - 20 Jan 2015** wherein experts from various renowned institutes were invited for expert talks.

ICT based Short Term Course on "Instructional Delivery: Instructional Planning & Delivery" in collaboration with NITTTR from 11th -15th May 2015

Department of Computer Science and Engineering organized a Short Term Course on "Instructional Delivery: Instructional Planning & Delivery"in collaboration with NITTTR, Chandigarh through ICT from 11th -15th May 2015 for faculty members.

Eminent Speakers:

1) Dr. M. P. Poonia/ Dr. P.K. Tulsi
     Topic: Inaugral& Introduction to the Course
2) Speaker: Prof P.K.Tulsi
     Topic: Events of Instruction
3) Speaker: Dr. M. P. Poonia
     Topic: Management Skills
4) Speaker: Prof P.K.Tulsi
     Topic: Classroom Communication
5) Speaker: Dr. R. K. Wats
     Topic: Creativity
6) Speaker: Dr. M. Dutta
     Topic: Integration of Media in Teaching Learning
7) Speaker: Dr. S. P. Bedi

Topic: Collaborative Learning

8) Speaker: Dr. Sunil Dutt
     Topic: Motivating Students

9) Speaker: Prof P.K.Tulsi
     Topic: Teaching and Research

10) Speaker: Dr. M. P. Poonia
     Topic: Sustainable Development: Role of Teacher

11) Speaker: Prof. P.K. Tulsi
     Topic: Course Evaluation & Valedictory

Coordinators from IMS Engineering College were:
Mr. Vijai Singh, Assist. Prof. , CSE Department
Mr. Vikas Singh,Assist. Prof. , CSE Department
Ms. Vinita,Assist. Prof. , CSE Department
Web Coordinator
Mr. Anurag Mishra, Assist. Prof, CSE Department

Staff Development Programs

Department of Computer Science & Engineering has organised **Skill Development program** for the Lab Technical Staffs of all the departments of the college. This IT enabled program will help the participants to efficiently use the IT facilities in their respective labs in a more productive way. The program was conducted during working Saturdays. Inaugurating the program, the **Director Dr S P Pandey** encouraged the participants bo become a good learner.
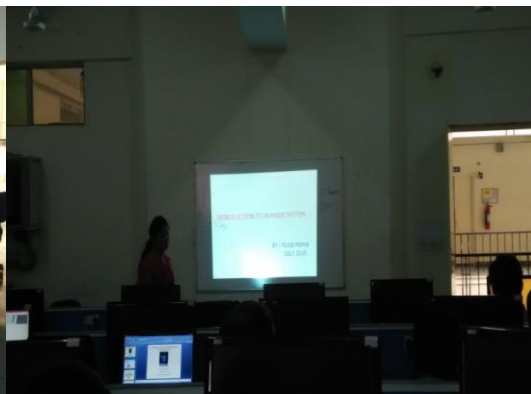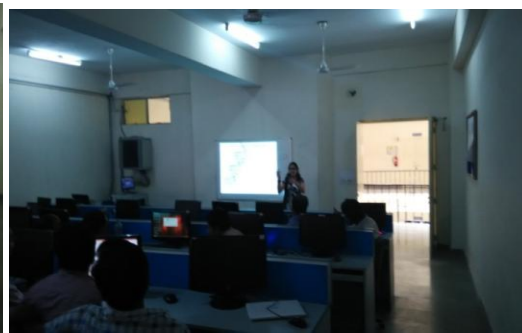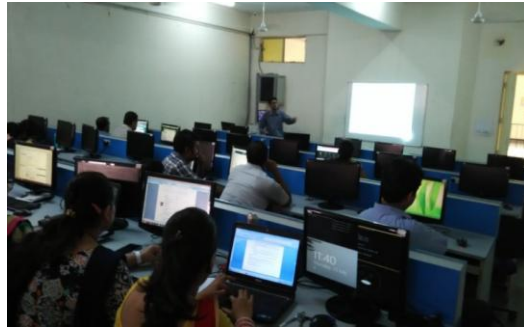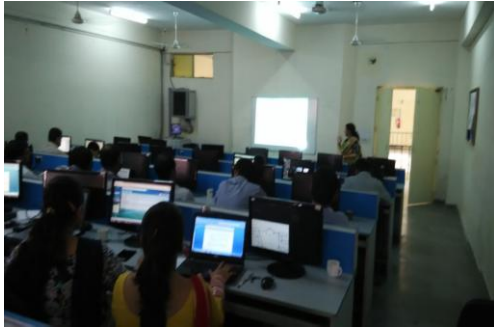
Department of Computer Science and Engineering organized 5 days workshop on **"C Programming"** for Faculty & staff members of other branches, IMSEC during June 2015. The workshop was conducted by **Dr. Upasana**, Associate Professor, CSE department.

Faculty Presentations at Department Level

All faculty members of CS department gave presentations of topics of their choice from subjects they are teaching during 22 July 15 to 25th July 2015 in Lab 2, Block C.

INTERNATIONAL CONFERENCE

IEEE Co-Sponsored International Conference on Advances in Computer Engineering & Applications- 2015 on 19-20 March 2015

The student achievers of the department were recognized & awarded during the ICACEA-2015 on 20th March 15.

Recognizing our Achievers

Summer Industrial Training Programs

Following Industrial training programs were conducted during 26th May to 12 June 2015

- CMAP Automation in collaboration with Indian Testing Lab, Noida.
- Network Security & Management in collaboration with Natcamp Pvt ltd.
- Android application development for B.Tech 2nd yr by CSE Department

More than 150 students participated in these programs.

SOFTWARE TESTING LAB

Inaugural of Software Test Lab in collaboration with Indian Testing Board on 6th June 2015

Software Test lab in collaboration with Indian Testing Board was inaugurated in the Department of Computer Science and Engineering on **6th June 2015**. Eminent Speakers from industry were invited as guests in the ceremony. Ms. Swati & Ms. Lipika are the faculty coordinators.

The following is the list of delegates and the guests:

1. Mr. Raja Babu Singh, IG provisioning, IPS Officer.
2. Mr. Vipul Koacher, President Indian Testing Board.
3. Mr. Ayush Agarwal- CEO of Trinity Mobile App Lab pvt ltd.
4. Mr. Rajeev – Marketing Head Trinity Mobile App Lab pvt ltd.
5. Ms Rimy Obeoi Founder & CEO of OysterConnect.com.

Mr. Raja Babu Singh is 94 batch IPS officer. He got promoted as IG on 25th Sep 14, initially working as IG Training and presently as IG Provisioning, been awarded President Police medal for meritorious services and Police Medal for Gallantry. He attended international seminar like Seminar for Foreign Senior Police Officers in Tokyo in 2014. He talked about the role of youths in the current world of technology. He motivated the students for their skill development to face the competitive world.

Mr. Ayush Agarwal was Head IT Innovation & Operations at Bharti Infratel Ltd and presently CEO of **Trinity Mobile App Lab Pvt ltd.** He is a Visionary IT leader with vast experience that covers transforming IT drive business growth, leading and managing technology function, relationship management with senior level executive, designing and implementing IT strategy and solutions. He discussed about the importance of testing the field of IT industry. The skill required to be a better tester. He also focussed on the latest IT trends and technologies.

Ms. Rimy Obeoi is the Founder & CEO of OysterConnect.com.. She has 17+ years of experience. She is an HR Professional who has worked in varied Industries such as FMCG, IT Products and IT Services. She is currently an entrepreneur who runs a unique portal called **OysterConnect.com** which provides work skilling projects and Virtual Internships to students of Management and Undergraduate programs. She discussed about the skills the students should have to get recruited to MNC's. She focused on the level of competencies required to be a better professional.

Mr. Vipul Kocher is a Co-founder of SALT and the **President of the Indian Testing Board (ITB),** a member of ISTQB. He represented India in the effort for creation of new ISTQB syllabus as well as the glossary of testing terms which has been adopted as British Standard. He has been extensively involved contributing to the Testing Boards of several

countries including India. He is highly popular as a speaker in the testing community. His talk focused on testing as a Career Option in today's IT World. He discussed about the current opportunities the steers have in the market and the skills required being a better tester.

After the talk from the various delegates and guests the inaugural of the test lab took place in Lab-1 C Block by Mr. Raja Babu Singh.

Guest Speakers & Invited Talks

1) The eminent speaker **Mr. MK Seth, Senior General Manager from BSNL** were invited as a guest on **23rd July, 2015** to deliver on his expert talk on various aspects of life like how to gain positive energy at anytime, how to live in the

world with full of happiness, love and passion, how to behave according to the environment that you live on. All the faculties attended the proficient talk from all the departments from IMS College, GZB. The event was organized by the department.

2) The eminent speaker **Mr. Mangalam TK, Senior Project Lead of Tata Consultancy Services** were invited as a guest on **25th July, 2015** to share his experience through out in TCS. And he gave more ideas about his concepts, what is the difference between the various concepts and importance of ethics,moral and values. The skilled talk was attended by all the faculties from all the departments from IMS College,GZB.

3. The eminent speaker **Mr. Rakesh Adnikari**, **Senior ProjectTeam leader** was invited as a guest on **8th August, 2015** to give a motivation class for students. He have more than ten years of experience in Ericsson and another 6 years of experience in IT & consulting companies like EHPT, Wipro and AGILENT Tech. He told the importance of setting a goal in each student's life. And how to prepare for that goal as well as how to achieve the goal. The expert talk was attended by all the 2nd year students from computer science department from IMS College, GZB.

4. The eminent speaker **Mr. Ooppss, Project Team Leader** was invited as a guest on **8th August, 2015** to aware students about the importance of cyber securities. And he gave more ideas about his concepts in cyber security hacking, watzapp hacking, social media hacking security tips, cookie grapping security, ATM security, ATM Hi-Jacking and Cyber Law awareness. The skilled talk was

attended by all the 2nd year students from computer science department from IMS College, GZB.

5. The distinguished talker **Mr. Gurpreet Singh, Director of APTRON Solutions Pvt. Ltd** was invited as a guest on **22ndAugust 2015** to introduce students about APTRON Solutions and its offerings. And he help students to understand the importance of planning and guidance in their career choices. He have 12 years of experience in APTRON Solutions Pvt. Ltd and he worked in NPEE Technologies, Softbit Solutions and Drishti-Soft before for more than 3 years. He offered the industrial visits as well as hands on training on the same day.He gave the importance of resume building as well as personality development.The skilled talk was attended by all the 2nd and 3rd year students from computer science department from IMS College, GZB.

6. The renowned speaker **Mr. Rahul Gupta, Managing Director of APTRON Solutions Pvt. Ltd**was invited as a guest on **22ndAugust2015** todeliver a lecture about web Technologies and Big Data Hadoop. He have more than 3 years of experience in Big Data Hadoop as well as in Web Technologies. He have hands on experience in Cloudera Hadoop, Hadoop MapReduce, Hadoop Applications and many more. He gave overall idea about Big Data, Apache Hadoop Architecture, Hadoop Ecosystem, Hadoop setup and Installation, configuration and the administration of Hadoop to the 2nd and 3rd year students from computer science department from IMS College, GZB.

7. The renowned speaker **Mr. Abhisshek, Manager (BD) from CMC Limited (A TCS Subsidiary)** was invited as a guest on **22ndAugust2015** to deliver a session about Big Data. He has more than 5 years of experience in Big Data field. He has hands on experience in Hadoop and its architecture, MapReduce, Hadoop Tools and many more. He gave the introduction about the types of big data, how to understand the Big Data problem. He gave more idea about, how to set up the Hadoop environment and about Mapreduce as well as performing Mapreduce labs to the 2nd year students from computer science department from IMS College,GZB.

8. **Department of Computer Science and Engineering** organized **seminars** on **"Web Development"** and **"Android Development"** for 2nd year and 3rd year students where in experts from **DUCAT,Ghaziabad Mr. SanjivRai**and **Mr. Aditya**delivered their expert talks. The objective of the

program was to make technical students aware of Web Development and Android Development.Around **80 students** from **B. Tech 2nd and 3rd year** actively participated in the program. The entire event was organized by Ms. ShivaniAgarwal(Faculty member of CS Department),Shubham Dixit(CS2 ,3rd year),Nikhilendra Kishore pandey(CS2 ,3rd year) and AnujSrivastava(CS1 ,3rd year).

9) Department of Computer Science and Engineering organised a workshop **on "Search Engine Optimization"** wherein expert from **Apex TG India Pvt.Ltd. ,Noida,** delivered his expert talk on various aspects of search engine on **7th February, 2015.** The workshop was attended by B.Tech 2nd and 3rd year students.

Department of Computer Science and Engineering organised a seminar **on "SAP".**
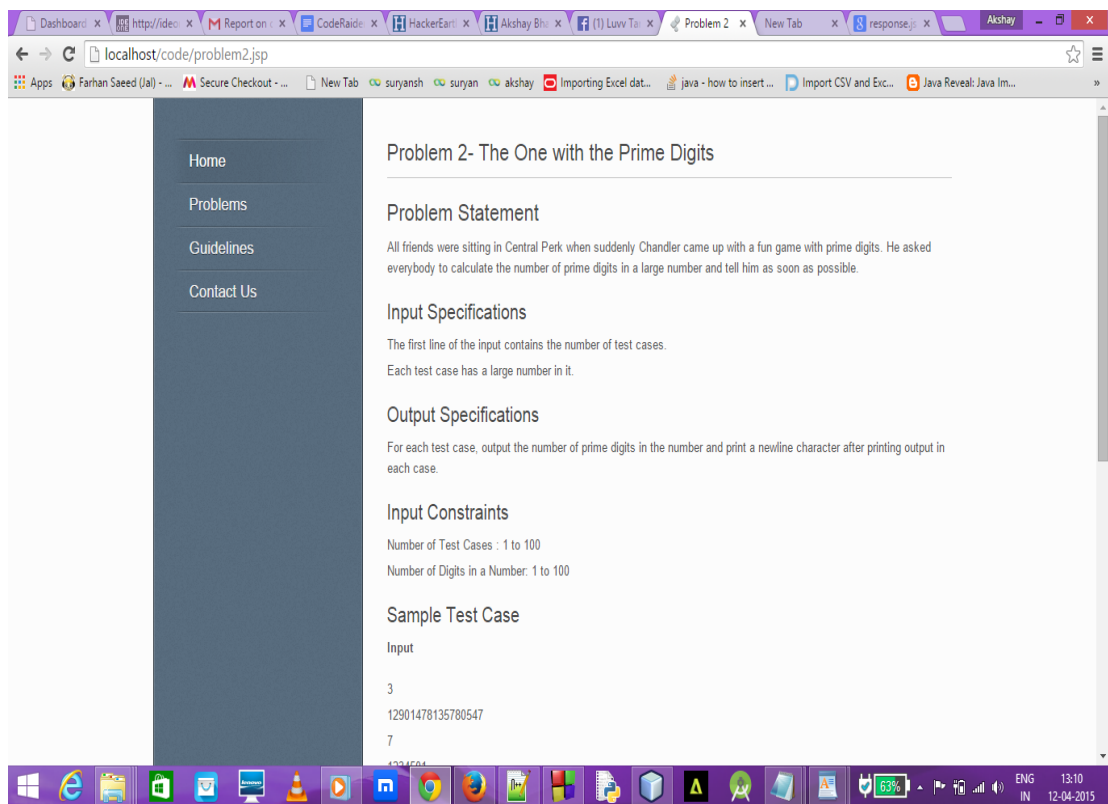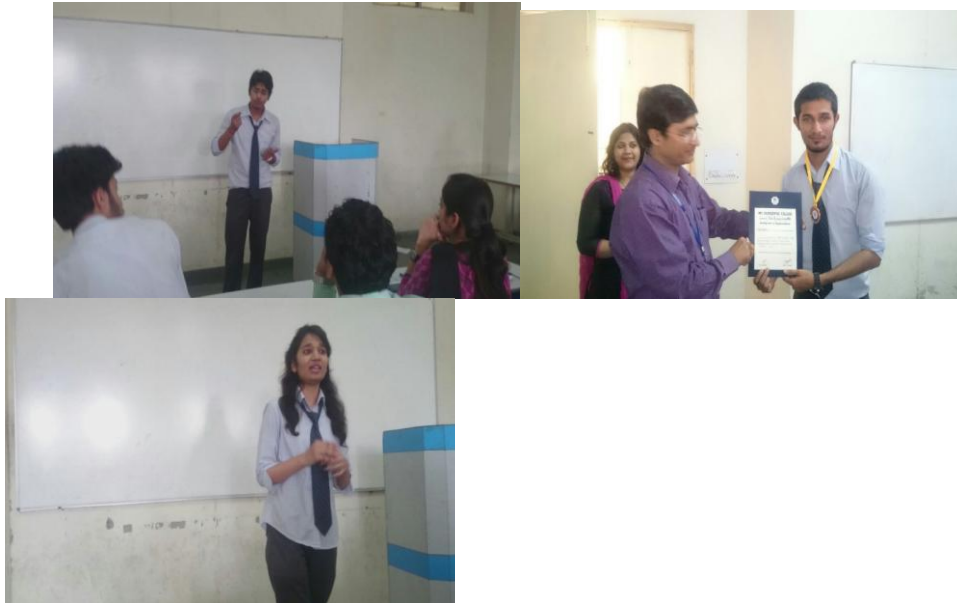
Technical Events organized by Student Clubs

1. The **CodeRaiders** Programming Club of Department of Computer Science and Engineering organized an offline programming competition which was coordinated by **Akshay Bhasin, Aman Verma, Suryansh Kaushik of 4th year and Aviral Modi, Ajay Saini, Rafi, Nikhil Tiwary, Anjali of 3rd year.** The competition was held on **22nd August 2015** at 11:00 a.m in the college premises. The event CodeRaiders v3.0 was a 2 hours competition where **75 students** of 2nd and 3rd year participated. The event was held on an online portal made by the club where participants submitted their solutions online and it was checked automatically. The event saw huge number of submissions from the participants and at the three five teams managed to solve 5 questions each. 2nd year students **Shikhar Bajpai and Rohit Kumar were the winners from 3rd year and students Rishabh Prabhu and Nishika Chaudhary were winners from 2nd year.** All participants received participation certificates and the top three teams received merit certificates for their excellent performance. **Faculty coordinators** for the CodeRaider are **Ms. Arti Patle and Ms. Shaili Gupta.**

Snap of the problem statement for the programming competition

2. **Department of Computer Science and Engineering** organized **CONVERSE :Public Speaking Competition** for 2nd year and 3rd year studentswherein the students delivered their views on various topics related to Social Issues, Latest technologies etc .The objective of the program was to enhance the creativity and skills of the students. Around **40 students** from **B. Tech 2nd and 3rd year** actively participated in the program. The entire event was organized by Ms. ShivaniAgarwal(Faculty member of CS Department),Shubham Dixit(CS2 ,3rd year),Nikhilendra Kishore pandey(CS2 ,3rd year) and AnujSrivastava(CS1 ,3rd year).

3. **Department of Computer Science and Engineering** organized **ABHIVYAKTI :Creative writing competition** for 1st,2nd year and 3rd year studentswherein the students expressed their views on various topics related to Social Issues, Latest technologies etc through various forms of writing.The objective of the program was to enhance the creativity and skills of the students. Around **140 students** from **B. Tech 1st,2nd and 3rd year** actively participated in the competition. The entire event was organized by **THE BYTE-An e magazine of CSE Dept**. Mr. Amit Kumar Gautam(Faculty member of CS Department), Ms. LipikaGoel(Faculty member of CS Department), Shubham Dixit(CS2 ,3rd year),Nikhilendra Kishore pandey(CS2 ,3rd year) and AnujSrivastava(CS1 ,3rd year) co-ordinated the entire event.
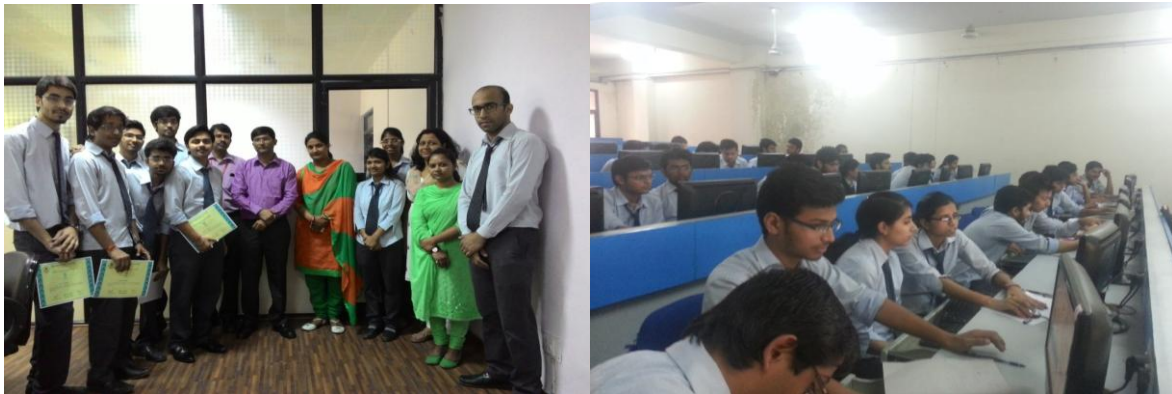

4. The **CodeRaiders** Programming Club of Department of Computer Science and Engineering organized an offline programming competition which was co-ordinates by **AkshayBhasin, AmanVerma, Anukrati Mishra, KanchanYadav, Ankur, Abhishek Singh, Akshay Singh Raghuvanshi and Sakshi of 3rd year.** The competition was held on **11th April 2015** at 10:30 a.m in the college premises.

The event CodeRaiders v2.0 was a 2 hours competition where **110 students** of 2nd and 3rd year participated. The contest comprised of 5 questions from different categories of programming such as basic math, sorting, string handling etc. The event was basically to make the students familiar of the coding competitions going on in the current scenario. The event was held on a portal made by the club where participants submitted their solutions online and it was checked automatically.

The event saw huge number of submissions from the participants and at the three five teams managed to solve 5 questions each. 2nd year students **Ajay Saini and AviralModi were declared the winners , 2nd year students ShikharBajpai and Rohit Kumar were the runners-up and 2nd year students Rafi UzZaman and Luv Tanwani were the 2nd runners-up.**

All participants received participating certificates and the top three teams received merit certificates for their excellent performance.

Project titled 'leaf disease detection' was adjusted as one of the potential projects at Project Exhibition at IMSEC on 19th -20th Oct 2015

National Seminar (NSFTICE'15)

ACM Student Chapter under Department of Computer Sciences & Engineering, IMS Engineering College organized a National Seminar on **Future Trends & Innovations in Computer Engineering (NSFTICE'15)** on **9th Oct. 2015 (Friday)**. Students presented their innovative ideas through Technical posters & technical papers. Around 40 poster presentations and 37 oral presentations were showcased.

Smriti Porwal, Sonal Shahi and **Geeta Singh** secured first position in technical poster presentations; **Rishabh Prabhu** and **Nishika Chaudhary** secured second position. There was a tie between two groups for third

position namely **Ved Bhushan, Ketan Priyamand, Keshav Srivastav, Jayesh Pal** and **Piyush Kushwaha**.

Technical Paper titled '**Wireless power transmission using Tesla tower**' presented by **Divyang Agarwal, Rajan Asish & Apoorv Srivastava** of **B.Tech CSE** 2nd year was adjusted as best technical presentation.

AUTHORS	TITLE
TRISHLA KUMARI	DATA REPLICATION WITH INTERSECTIONOF QUORUMS IN 2DMESH (IQ2DM) PROTOCOL
KARTIK PANWAR, MRIGANK TYAGI ANDHARSHIT BHATNAGAR	INTERNET OF THINGS : FROM A CYBER SECURITY POINT OF VIEW
DEEPA RAJ AND SEEMA GUPTA	SEGMENTATION AND REASSEMBLY OF IMAGES USING BIPLANE SLICING IN ADAPTIVE LOSSLESS DICTIONARY BASED COMPRESSION
VISHAL PRAKASH AND MEENAKSHI SRIVASTAVA	PASSWORD ATTACKING METHODS & PREVENTIONS
JUHI CHAUDHARY AND ANURAG MISHRA	LITERATURE REVIEW: CLOUD COMPUTING-SECURITY ISSUES AND DATA ENCRYPTION SCHEMES
ANSHUL TIWARI AND ANKIT SHUKLA	COMPUTATIONAL CREATIVITY AND STRATEGIC PLANNING
ANSHUL TIWARI AND RATNESH SRIVASTAVA	ARTIFICIAL INTELLIGENCE IN WIRELESS AND SENSORS
ANSHUL TIWARI AND ANKIT YADAV	DEVELOPMENTAL ROBOTICS
TANUSHREE SINHA ROY AND ARTI PATLE	LUNG CANCER IDENTIFICATION USING HYBRID NEURO-FUZZY TECHNIQUE
SADHANA SINGH	A STUDY ON IMPLEMENTING IMAGE FUSION AND IMAGE COMPRESSION USING DCT ON 3D BIOMEDICAL IMAGES
POOJA KUMARI, PULKIT CHAURASIA, PRABHAT KUMAR AND TUSHINA BEDWAL	A SURVEY ON NOISE REDUCTION IN IMAGES
PRIYANSHA MISHRA, SHRADDHA SHRIVASTAV AND TUSHINA BEDWAL	DATA COMPRESSION METHODOLOGIES
YASH GUPTA, SHIVANI SHARMA AND TUSHINA BEDWAL	TEXT EXTRACTION TECHNIQUES

AYUSHI TEWARI, SWETA MALIK, UZMA NIKHAT AND TUSHINA BEDWAL	CONTENT BASED IMAGE RETRIEVAL
SANDEEP PANGHAL, SHUBHAM DIXIT, NAVEEN KUMAR VERMA AND TUSHINA BEDWAL	REVIEW ON INTRUSION DETECTION SYSTEM
YASH GUPTA, SHIVANI SHARMA ANDANJALI SARDANA	A STUDY ON CRYPTOGRAPHY AND TECHNIQUES
SHUBHAM DIXIT, SHUBHAM MITTAL, ANUJ SRIVASTAVA AND TUSHINA BEDWAL	CLOUD COMPUTING: A PROPORTINATED STUDY
AYUSHI GAHLOT AND UMESH GUPTA	GAZE-BASED AUTHENTICATION IN CLOUD COMPUTING
CHITRANSH AGARWAL, PRIYANSHI JAIN,SNEHA SINGH AND VISHAN KUMAR GUPTA	HETEROGENEITY OF DATA: THE NOSQL REVOLUTION
AKSHMA MITTAL AND KIRTI AGGARWAL	FUTURE OF PERSONAL COMPUTING- EBALL PC
MUKUL AGARWAL, MOHD. SHANE AALAM AND MOHAMMAD. AVESH	GENETIC ALGORITHM TOOL TO SOLVE TSP PROBLEM
PULKIT CHAURASIA, PRIYANSHA MISHRA AND ANJALI SARDANA	A SURVEY ON CRYPTOGRAPHY FOR IMPROVING DATA SECURITY
ROHIT CHAUDHARY, ANJALI SARDANA ANDYASH GUPTA	INTERNET OF THINGS
VIVEK KUMAR, SHILPI PANDEY AND SHILPA SHARMA	VOICE RECOGNITION
ANUJ AGRAWAL, ADITYA BAGHEL, ROHAN KALRA AND SHAILI GUPTA	REVIEW PAPER ON INTERNET OF THINGS AND ITS FUTURE TRENDS
SHIVANI AGARWAL, NISHIKA CHAUDHARYAND RISHABH PRABHU SRIVASTAVA	SIGN O SPEECH AUTOMATA
SHIVANI AGARWAL, RISHABH KAUSHIKAND RAMJI GUPTA	REVIEW OF CONWAY'S GAME OF LIFE
PAURVI GUPTA, AMAN SRIVASTAV AND DR. UPASANA PANDEY	SOLAR ENERGY: ENERGY FOR THE FUTURE
SYED ALI IMTIYAZ RIZVI, SUDHIR SAHANI AND VIVEK JAIN	THE INCLUSION OF COMPACT FOLDING WITH SLEEK FINISH: IMS PLEAT
SHIVANI AGARWAL, RISHABH KAUSHIKAND ATUL KUMAR	REVIEWING THE METHODS OF PREDICTING PROTEIN SECONDARY STRUCTURE
SHIVANI AGARWAL, ROHAN TANEJA ANDTUARIQ BEG	BRAIN COMPUTER INTERFACE
SHIVANI AGARWAL, SHIVAM AGGARWALAND ATUL KUMAR	"A CRITICAL REVIEW OF PRESENT AND FUTURE APPLICATIONS OF ANN"

PROJECT EXHIBITION

Innovation meet

Innovation meet was organized on 20th March 2015. More than 40 teams participated in the competition

(SPARK 2015) at Department level

Over 150 students, faculty members from various departments of IMS Engineering College participated in a project competition SPARK-15 on Friday, October 9th 2015 organized by CS Department

Highlighted projects

-**Leaf disease detection:** That detects the disease in a plant leaf with just an image of that leaf.

-**Home décor using virtual reality**: Who knew home décor can be simulated to a whole new dimension.

-**Voice based e-mail for visually impaired people**: A very good initiative for the blind people who are incapable of sending e-mails.

-**Wireless electricity:** Providing electricity wirelessly, living the dream.

-**Loom project:** It provides internet connection to those areas where communication links have not yet reached.

Project Exhibition (19-20th oct 2015)

Project titled 'leaf disease detection' was adjusted as one of the potential projects.

Technical Fest- Comprix 2015

Technical Fest of CSE department 'Comprix 2015' was organized on 19-Oct 2015

Events organized

- **QUIZATHON (QUIZ)**
- **WEBSITE DEVELOPMENT**
- **CODEMANIA**
- **CLIP PERCEPTION**
- **COUNTER STRIKE**
- **LETS DEBATE**
- **ARYABHATTA- THE MATHEMATICS CHALLENGE**
- **CREATIVE WRITING**

more than 150 students participated in various events

Student's Achievement

Unisys Indiaon Friday 27 February 2015 announced the winners **of Cloud 20/20 Version 6.0.** The contest recognises innovative thinking by students across India in addressing the technical challenges of the latest disruptive IT trends. PoorvakKapoor, DhruvBajpai, AkshayBhasin, and AbhinavBhadoria from IMS Engineering College, Ghaziabad, won the first prize of 1.25 laces.Unisys India will offer the finalist teams employment opportunities within the company.