Jaipur Engineering College & Research Centre, Jaipur

DEPARTMENT OF INFORMATION TECHNOLOGY

# IT Newsletter

## Edition 3 | March 2017

**Department of Information Technology**

# IT Newsletter

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**Department of Information Technology**

# IT Newsletter

## Vision & Mission of Jaipur Engineering College & Research Centre, Jaipur

To become a renowned centre of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.

- Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.
- Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions.
- Offer opportunities for interaction between academia and industry.
- Develop human potential to its fullest extent so that intellectually capable and Imaginatively gifted leaders can emerge in a range of professions.

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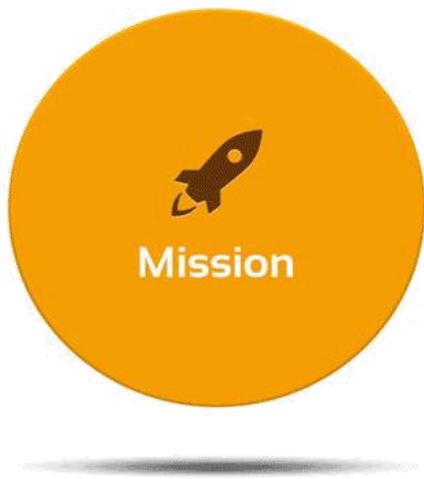
# IT Newsletter

## Vision & Mission of Department of Information Technology

- To establish outcome based excellence in teaching.
  - Learning and commitment to support IT Industry.

Vision

- To provide outcome based education.
- To provide fundamental & intellectual knowledge with essential skills to meet current and future need of IT Industry across the globe.
- To inculcate the philosophy of continues learning, ethical values & social responsibility.

Mission

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# Program Outcomes (POs)

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **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.

4. **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.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **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.

7. **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.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **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.

11. **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.

12. **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.

**ATHLON'17**

JECRC sports club provides platform to all the young enthusiasts who have interests in various games. Not being limited to just 1 or 2 games, JECRC sports club widens the thought of sports. From Basketball to Volleyball, athletics to fun games, and carom to arm wrestling, sports club provides all the opportunities to the youngsters to nurture their physical health and lead towards a peaceful mind.

As said, *"Sports do not create personality, they reveal it."* The heights JECRC sports club has reached would not have been possible without the support and guidance of the college administration and staff. Specifically the Department of Information Technology has always been there in all the hurdles throughout the journey.

We would like to thank the complete Department of Information Technology for helping and guiding us at each stage. Under their umbrella, members of JECRC sports club has represented at state level in various sports. Promising to move ahead in high spirits and take sports of our college to a new level. JECRC sports club feels immense pleasure to have the Department of Information Technology as their one of the major supporters.

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JECRC Athlon 2k17 finds huge honour being inaugurated by **Mrs Nirmlesh Mathur,** Kabaddi International Gold Medallist along with college dignitaries. The meet witnessed immense participation of the students as well as faculties with 2000+ registrations with 14 games in hand.

Apart from enduring events, fun events were also organized to settle down the mist of competitions. The event concluded with Prize Distribution followed by appraising words from Director Sir, Principal Sir and vote of thanks delivered by Sports Officer.

- Shalu Bhardwaj
II Year
15EJCIT072

# Zarurat
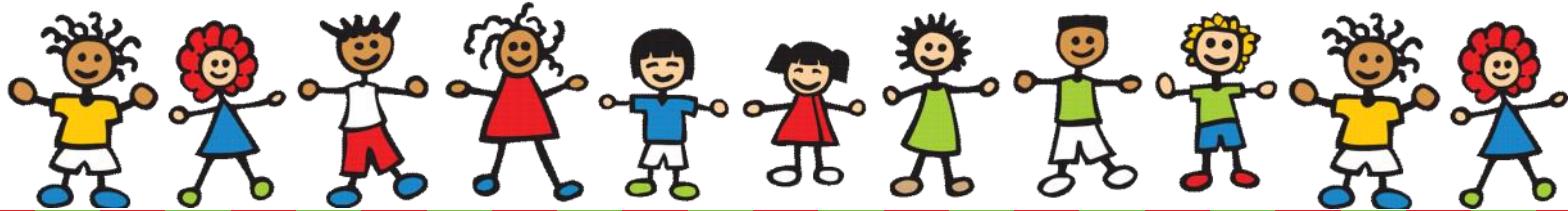
It is rightly said that failure teaches you more than what success does. It teaches you to think right in the wrong situations and make the best of it all. Zarurat is one such story, a story of 7 people who came together to show several underprivileged children a dream and provide them the means to make it come true.

It began with a group of students discussing a business idea for a b-plan competition wherein they also brought into discussion a social angle to their idea, but due to lack of confidence and resources they dropped it. The idea was nothing new; it was just to utilize the college resources once their primary function is over. This group of friends were only girls, on discussing this idea with the then Student Development officer, he guided them to add male team members and expand the team. He also told them to do a market research before proposing the idea to the administration.

On successful completion of the market research the idea was proposed to the director of the institution, JECRC Foundation, **Mr Arpit Agrawal**. As a part of pushing student activities and supporting the students, Arpit sir didn't mind but he did doubt the dedication of a bunch of 19 year olds under the pressure of keeping up with the academics and forecasted the venture to last about 3 months if not less. It was this that inspired the team to work harder and prove it that it will continue it for 30 years, let alone 3 months.

After hours and days out in the field convincing parents to send kids to us, the classes started on November 20, 2011. And that just marked the beginning of our many challenges, biggest of them being the language barrier; most members have had their education in English whilst the kids' books were in Hindi. It took some strategy and hard work but the team overcame the problem. But with it, we realized that we needed to create a structure so as it passes down to every new member joining Zarurat with every year passing by, and that's what we did. That is how the current model of Zarurat came into existence.

Since it had lasted for more than 3 months, it was now time to add Zarurat as the social angle of the College Technical-cum-Cultural festival, 'Renaissance'.
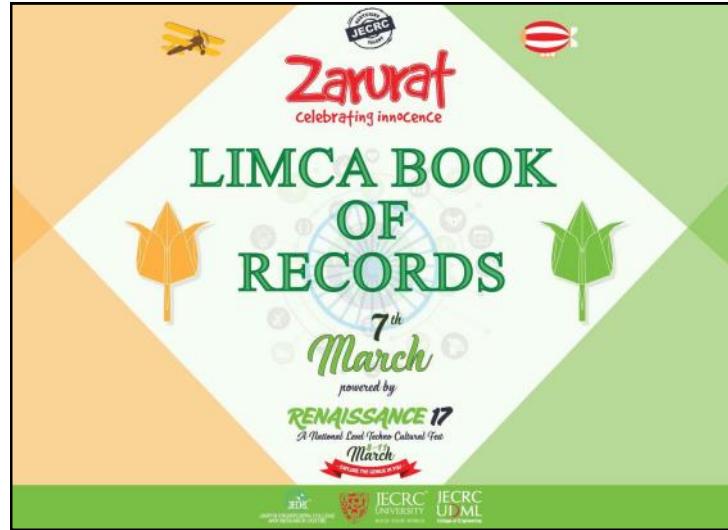
Now for a bunch of college kids, college itself is a new experience and they had taken on Zarurat something that was quite simple on paper but a lot more complex in reality, things were just getting under control but there was now the event part of Zarurat. Organizing a full day feast for kids from all over town to get them to experience the joy we all had the privilege to.

After numerous plans, rejections, obstacles and funding issues, the team did organize an event for 300+ kids and it was a success, nothing more than what an amateur team could have asked for. Since then, year after year, with constant learning and remodelling, the Zarurat family is 6 years old now. With that being said, a lot has been achieved by the team so far and there is a lot more to achieve and the Zarurat family will keep thriving.

On 7th march zarurat tributes to our Indian flag by assembling 25000 tricolour origami flower in the *"the biggest flower basket"* and owe an ovation to our nation. Our whole college witness the making of this extravagant record under the **"Limca book of records"**.

**Founders Profile:**

**Akriti Agrawal** (2010-14)
**Suchi Ghurka** (2010-14)
**Himani Jhajharia** (2010-14)
**Monika Sharma** (2010-14)
**Jasmit Singh Sandhu** (2010-14)
**Yash Kothari** (2010-14)
**Charu Agrawal** (2010-14)

Renaissance is a Techno/Cultural fest which provides a big platform for all the students to learn a lot and become multidimensional. The present competitive world demands leaders, entrepreneurs and not simply executives and technocrats. Renaissance acts as a workshop, where students learn qualities like coordinating, organizing, pursuing, managing and celebrating which are the qualities of entrepreneurs and leaders. Renaissance is an opportunity, a privilege and an honor bestowed on every student.

Renaissance is an hour which provides that special edge and makes every student strong and competent to face the world. It also provides a big platform for more than five hundred colleges witnessing a congregation of nearly seven thousand students and others from all over the country.

# *Technical events  -  Renaissance 2017*

Renaissance 2017 was a big success. In which Department of Computer Science and Department of Information Technology our college organized various technical events for the beneficial of the students. Certificates as well as cash prizes were offered to students. A huge number of registrations were recorded from the Department of Information Technology alone, in these events.

## SUBITO:

Subito was a technical event based on the theme based web, mobile app development. Participants have to prepare their app or web application in given time and have to show case their app or web application in front of the judges.net connectivity was provided.

## JUST C:

A great opportunity for coders as a competition named JUST C powered by hacker earth was organised in Renaissance a techno-cultural fest of JECRC. JUST C was aimed towards testing skills and basic knowledge .

## CATCH THE PHRASE:

Catch the phrase was a mind enthralling quiz competition which was aimed towards testing wits and presence of mind of students. It was a on the spot event fun and semi-technical event.

## JAVA LETS:

Java Lets was a programming competition which was aimed towards testing interest and skills of students in JAVA language. A huge number of participation of students from different colleges was recorded.

## EMBRYO:

A national level paper presentation contest where different Scientific and Technical researches ignited with innovative ideas meet under the same shade.





## NEW VENTURE'S:

It is the annual Business Plan competition organized by E-Cell JECRC. It was a programming competition which was aimed towards testing interest and skills of students in business plan. A huge number of participation of students from different colleges was recorded.





- Naman Agarwal
II Year
15EJCIT046

**Department of Information Technology**

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# Alumni vs. Faculties Cricket Match

**Renaissance 2K17** commenced with the friendly - cricket match between faculties and students on March 11, 2017. The game was executed utterly at the college Cricket Playground. Although, the game was epic, unpredictable and volatile at point of times, it was proven as a worthy proficiency that both skills and perseverance shall not be forgotten.



The weather was clement and beyond satisfactory. It was an unspoiled afternoon. There were two teams, **JECRC Super kings (Alumni)** and **Kings XI JECRC (Faculties)**.



**Mr Arpit Agrawal,** Director, JECRC wished luck to both the teams and asked the names of the team to be changed to JECRCians and JECRC, so in the end the winner will be JECRC anyhow. **Dr. Vinay Chandna,** Principal, JECRC, Mr ML Agrawal, Mr PK Tiwari also graced the event. The captain of JECRCians was Mr Priyank Saini and that of JECRC was Mr Kuldeep Sharma. Mr Arpit Agrawal tossed the coin; JECRC opted for batting by winning the toss.

Both the teams played with much vigour and it seemed as if the fours and sixes were raining from the bats of faculties but the alumni team left no stone unturned and tried their best to chase. The match turned very exciting towards the end and it was a stunning victory of JECRC by 8 runs as the game went down to the wire. Mr. Sunil Jangir played a mesmerizing innings by scoring in every corner of the field. The sweet spot on his bat speaks about the awesome form he was in, don't need scoreboards. Mr Arpit Agrawal presented awards for:



**Spirit of the cricket** to Mr. Ram Singh
**Best Faculty player** to Mr. Sunil Jangir

- Kunal Mishra
II Year
15EJCIT040

# Road Safety by *"SAHAYTA"* Group

**Mr. Tara Chand Saharan
RAS (Retd.)
Secretary SAHAYTA**

A Road Safety seminar was being organized in the JECRC Auditorium on 21st March, 2017 by *"SAHAYTA GROUP"*. Road traffic safety refers to the methods and measures used to prevent road users from being killed or seriously injured. But the seminar was way ahead informative than Road safety. It not only aimed to teach the students about general concepts of road safety but it also aimed about post-accident measures that should be taken to preserve the precious life of humans. The seminar was organized in two sessions. The first session began with a short film *"AAKHIR KAB TAK"* showing the mean thinking of society towards helping an injured people. It also showed different first-aid methods that should be given to the injured person to save his life till the ambulance arrives. The practical demonstration of CPCR (Cardio Pulmonary Cerebral Resuscitation) was shown on a dummy and the students also performed CPCR on the dummy. Good Samaritan law was focused more because Good Samaritan law offers legal protection to people who give reasonable assistance to those who are, or who they believe to be, injured, ill, in peril, or otherwise incapacitated.

The protection is intended to reduce bystanders' hesitation to assist, for fear of being sued or prosecuted for unintentional injury or wrongful death.

The second session was joined by various officers from Police department and the Transport department. The road safety poster quotes were unveiled by the police officers and they heard the problem faced by the students on the roads and also asked for the suggestions.

In a nutshell, the Initiative by SAHAYTA GROUP has done an outstanding work and prompted the youth to rethink upon their mindsets on Road safety!!

SAHAYTA

extend a helping hand to accident victims

# TEDx JECRC
## x = independently organized TED event

**ABOUT TED-** TED is a non-profit organization devoted to ideas worth spreading. The two annual TED Conferences invite the world's leading thinkers and doers to speak for 18 minutes or less. .

**ABOUT TEDx-** TEDx is a program of local, self-organized events that bring people together to share a TED-like experience. These local, self-organized events are branded TEDx, where x = independently organized TED event.

**ABOUT TEDX JECRC-** TEDx JECRC is one of its kind events to be organized in JECRC aims to *"DISCOVER SOCIETY"* at its best. The event will host speakers from peculiar verses of society which range from comedy to fashion to global issues.

**SPEAKERS:**

Mr Rameshwar NK Bamezai- Scientist, a researcher, a professor, a PADMA SHRI. He was the DEAN of Life sciences and school of Computational and Integrative Sciences. With more than 37 years of experience teaching and guiding, he has published 135 papers in Journals. His field of research is focused on the HUMAN GENOME, where the information of the entire society resides.

Mrs Ajaita Shah- A Forbes Magazine's Top 30 under 30's Social Entrepreneur of the year. She is the winner of Loreal's Women of Worth 2016, CNBC Young Businesswoman of the Year 2016. She currently serves on the Board of Frontier Innovations Foundation. She is a member of UN Practitioner's Network, Asian Development Bank's Energy for all partnership.

Mrs Reena Puri- She is the EXECUTIVE EDITOR of India's number #1 graphic comic's series, *'Amar Chitra Katha'*. Associate Editor of Tinkle. She is one of the very few women comics writers. Credited titles like Param Vir Chakra, Saptarshi, Tenzing Norgay and the Ramayana among others.

Ms Manisha Gulyani- She is a KATHAK Dancer, an artist who is trained by renowned Pt. Girdhari Maharaj. Trained in modern dance, T'ai Chi and Kalarippayattu. She took the Indian flavors to more than 15 countries.

Mr Nitin Mirani- World renowned comedian & host, has entertained packed houses in over 1500 shows around the globe. He has also represented India and UAE in *"Funniest Person in the World 2015"* held in Los Angeles and Las Vegas. Has shared the stage with Kapil Sharma as well as Hollywood Comedy Legends such as Eddie Griffin, Marlon Wayans & Trevor Noah to name a few.

Mr Paresh Gupta- The fundamental problem of Economy is said to be scarcity - the idea that wants (demand) is greater than the resources we have. He is trained financial modeler, who has done his MBA from London school of business and finance. He is CEO of 3 times National Award Winning Company, i.e. Sharp Edge learning.

Ms Anuja Kapur- A criminal psychologist from Delhi University an advocate from CCS University, a victimologist from Japan Tokiwa International Victimology Institute and as a social activist. Awarded best Social Activist in Youth Icon Awards and best Criminal Psychologist in Women Excellence Achiever Award. She was appointed as a social police officer for North West district police to help Delhi police.

Ms Ritu- She is an acid attack fighter. Life was changed overnight, who dropped out of school, dropped out of volley ball classes, who was forced to stay confined at home. But she did not give up she fought. And joined many organizations for helping the acid attack victims.

Ms Nina Nayak– She is a politician from Aam Aadmi Party. Having served in UNICEF, as the Chairperson of Karnataka State Commission for Protection of Child Rights, as the Honorary Vice President of Indian Council for Child Welfare, as the Working President Karnataka State Council for Child Welfare.

Ms Nandita- She is a journalist at The Economic Times, a Bharat Natyam dancer, now a TB awareness advocate and the only Indian selected to attend the Washington based ACTION.org public health advocacy training in Paris.

# Women's Day Celebration

With the motive of empowering women and bringing in the concept of inclusion and diversity, Accenture chose **JECRC Foundation** as one of the twelve colleges all over India to host their event for celebrating women's day.

On March 24, 2017, Accenture arrived at JECRC to hold a special program only for girls of the college to promote and express their companies' liberal thoughts for empowering women. The event took off with multiple exciting and fun competitions like writing down their thoughts on the wall, clicking selfies with the #leadinginthenew tag, Whatsapp quiz and others such as gif photo booth and freebies were distributed to the winners.

Later the event proceeded with a very intriguing skit performed by Steps Drama group based on the concept of life and work environment for girls at the company. Also, the actors in interacted live with the audience and addressed their queries on the same. Primarily, the ideas of gender diversity and inclusion were put forward which helped in broadening the thinking horizons of the audience and break the clichéd biases and notions that are general in professional work environment.

Also, the audience had the great opportunity to interact and solve their dilemmas with none other than **Mr. Kanwar Mohan Singh, MD, Accenture**. He told about his journey at Accenture and cleared the doubts of the student and talked about the growth and development of women and overall workforce of the company.

To conclude the event, the best part was saved for the end. A prize distribution ceremony was held and all the winners of the contest were awarded. Also, there were special awards for female teacher and students who have contributed a lot for the betterment of the society and women.

Overall, the event was very reviving yet fun in its own way and more such programs are expected in the future.
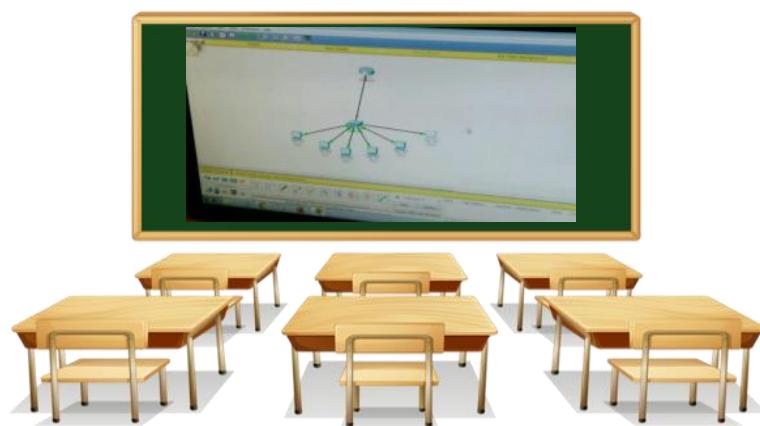
# ACTIVITIES

## Workshop on

# Packet Tracer 6.2

An initiative taken by Department of Information Technology for nurturing the talent of students and grooming their minds in a right direction. This workshop was in order to brushing up their skills by accompanying their theoretical knowledge with a practical one.

The subject of this workshop was Packet Tracer 6.2, which is a Network Simulator Software providing an experience of real time devices. It is used for practising most of the networking configurations by creating network topologies. It helps to understand about how to configure the networks and imitate modern computer networks. All the networking devices are available in packet tracer.

The trainers were **Mr Anup Swami** and **Mr Deepak Choudhary**. Mr Anup Swami is a Technical Engineer (Network) at **SriRam Value Services Ltd.** and Mr Deepak Chodhary is a network Admin in **Pratap University,** Jaipur. Mr Deepak had also worked in HCL. It is proud to mention that they both had been a part of IT Department, 2015 pass out. The content delivered included basics of networking, connections, submarine cables, IP addressing both classful and classless, subnetting, ports and port numbers, networking devices like hubs, switches, etc., Routers along with its states, protocols adb configurations, VLAN, firewall with its working, types, NATting and PATting, DHCP and a lot more.

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## Review Board

*It was a nice workshop conducted by Department of IT to enhance our skills. I have learnt valuable skills on networking and packet tracer. I really enjoyed the sessions because of the enthusiasm of trainers. Their interactive approach and the content delivered was amazing.*

-Kamakhya Bansal

*I would like to thank Sunil Sir, Piyush Sir and respected trainers for such an interactive session. It gave me a chance to improvise my networking skills and build a keen interest to pursue the same. It gave me an immense pleasure when I designed my first topology on my own.*

-Ishmeet Kaur

*Before this workshop, I literally had no idea about networks, IPs , and all that was going on in my networking classes. But in this workshop, it started from the very basics and took me to a big height in networking. Trainers were very efficient and interactive.*

-Pallavi Soni

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# Alumni Visit

*Department of Information Technology is always recognised for its impeccable relations among faculties and students. These are not only the words but IT has proven and still proving .To join this venture 3 of our alumni visited to our college on 4th March. All of them rejuvenate their old beautiful memories which made them teen again.*

## Mr Deepanshu Soni

He was from the batch 2013 and recently working as Salesforce Associate Consultant at **Appirio**. He recently visited the campus and interacted with the IT Newsletter team. He counselled the newsletter team and guide them for the upcoming ones. He also shared his experience with the team.



## Mr Bhavit Jain

He was from the batch 2016 and recently working as Salesforce.com certified Developer at **Appirio.** He recently visited the campus and shared his experience with the newsletter team.



## Ms Monika Saran

She was from the batch 2016 and recently working as Software Engineer at **Mindtree**. She has recently visited the campus and interacted with the IT Newsletter team. She shared her experience with them and congratulated them for the last 2 editions.



## Mr Shashank Agarwal

He was from the batch 2016 and worked at Edifier in his days. He is a RHCA certified engineer. He recently visited campus at the time of renaissance 17 and had a talk with the students of the department and shared his experience.



- Asmita Goswami
II year
15EJCIT014

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# IT Newsletter

## Alumni Achiever

*The students of Department of Information Technology who made it big.*

### Ms VEENAM JAIN

A journey from JECRC to MOODY'S ANALYTICS, New York.

She graduated from JECRC in 2010 then she started her first job at Infosys Technologies Limited in Chandigarh as a System Engineer. After two years of services at Infosys she moved to COPAL AMBA, India (Now known as **MOODY'S ANALYTICS** KNOWLEDGE SERVICES) as Deputy Senior Associate.

Meanwhile she went to **UNIVERSITY AT BUFFALO,** THE STATE UNIVERSITY OF NEW YORK to get her Master's degree in Science. And worked for a year at MOODY'S ANALYTICS, New York after graduating. Then she moved back to India as Associate vice president at the same company.

### PUJA BAFNA

Currently living in London, United Kingdom.

She started her journey in 2009 from JECRC, then moving on to **LSE, UK for MSc Management.** There she got awarded with merit scholarship of £9,676. She got Internship at IBM, India as assistant in developing software for driving an embedded system. Then she got a job as **Graduate-PMO** (Infrastructure & Service Delivery). She showed that if you have dedication toward your work then sky is the limit. Now she is working with Lloyd banking group, London. Apart from studies she has outstanding achievement in extracurricular activities. She was a Runner up in Model United Nations debate twice, organized at national level in India, and also Runner up of the music band competition in 'MoodIndigo 2012', among 1600 participants.

*"Some people dream of success, while other people get up every morning and make it happen."*

-Gaurav Gupta
15EJCIT026
II Year

# Department Initiative - *Tech Facilitators*

Classes are always about *"teachers"* and *"students"*. But the teaching learning program, Department of Information technology has started is unique. More than classes these are interactive sessions for juniors under guidance of there seniors. Here teachers are doing selfless jobs and they are more of a friend rather than being a teacher. The prospective of students about these classes are different than the regular classes because they are under the guidance of a person who was at the same situation a year back.



Soft Skill Classes
-By Ms Peehoo Seema Ved



Big Data & Hadoop
-By Mr Prateek Agarwal



Quantitative Aptitude
-By Mr Milan Gamot

**FOTOGRA-FREAKS** *is the photography club of the college. The foremost aim of the club is to fulfil all the photographic needs of the college and to provide a platform to enhance the skills of the young budding photographers and to help them explore more their talent.*

### List of Extra Curricular Activities Conducted in the year    2014-15

- Photographed the Placement Drive organized by Tata Consultancy Services on 16th September.
- Photographed the Classical Music Event in which Sarod Maestro Dr. Chandrima Roy on 26th September.
- Photographed the performance of Rhythm Divine, Music Band of Art of Living on 13th August.
- Photographed the Blood Donation Camp organized by Aashayein-the life saviors on 8th October.
- Photographed the Joy of Giving Week organized by Zarurat -the help beyond during 10-17th October.
- Photographed the Sports Meet organized by the Sports Club of college during 5-9th November.
- Photographed the Seminar on National Security presided by Maj. Gen. G. D. Bakshi on 17th November.
- Photographed the EDM Concert organized by Red Bull Tour Bus on 4th December.
- Photographed the National Level Conference on Futuristic Trends in Mechanical
- Engineering organized by Mechanical Engineering Dept. of the college on 14th March.
- Photographed the Renaissance 15, the national level college fest, during 18-21th March.
- Photographed the JECRC Model United Nations 15 during 4-5th April.

| Saharsh | Jayesh | Jishnu | Anirudh | Akshay |
|---------|--------|--------|---------|--------|

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## List of Extra Curricular Activities Conducted in the year 2015-16

- Photographed the informatory session on Self Defence organized by AIESEC with Foreign.
- Delegates through Students Exchange Program on 12th August.
- Photographed the coding competition TOPCODER 15 organized by Top Coder at Manipal University on 22nd August.
- Photographed the Placement Drive organized by Accenture on 10th September.
- Photographed the Sports Meet organized by the Sports Club of college during 11-14th October.
- Photographed the informative session on Saint Kabir's Couplet by Mr Vipul Rikhi organized by Parijaat- the literary club, on 12th October.
- Photographed the Sports Meet of Zarurat's Kids organized by the Sports Club of college on 13th October.
- Photographed the Placement Drive organized by HSBC Bank during 15-16th January.
- Photographed the promotional event of Jaipur Pink Panthers on 19th February.
- Photographed the Renaissance 16, the national level college fest, during 18-21th March.
- Photographed the JECRC Model United Nations 16 during 26-27th March.

## 2017

- Photographed the Renaissance 17, Zarurat & Athlon .

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# IT Newsletter

# Words of Faculty

**Mr Piyush Gautam**
**B.E. M.Tech**
**Teaching Experience: 4.7 Years**

## Quality Enhancement of Teaching - Learning Process
### (27 Feb 2017 - 09 March 2017)

The first thing which comes to mind while discussing about quality enhancement of teaching and learning is Curriculum. The word **Curriculum** has been derived from the Latin word **currere** which means a race or the course of a race. Curriculum should be conceived as an epitome of the rounded whole of the knowledge and experience of the human race. It is a tool in the hands of the artist (Teacher) to mould his material (pupils) according to his ideas (aims and objectives) in his studio (school). Curriculum is an integration of Subject, Syllabus, Curriculum and Education.

The effort of designing curriculum goes in vain if a planned and thoughtful implementation of teaching and learning is not done. Teaching & Learning are actions necessary to accomplish a goal in education.

Once Benjamin Franklin said, *"Tell me and I forget, teach me and I may remember, involve me and I learn."* The teacher must keep in mind that there are mainly 4 categories of Learners:

**Visual learners-** They attend to information most effectively when they see something, for example, pictures, diagrams, films and videos or demonstrations

**Auditory Learners-** They learn by hearing and listening. They store information by the way it sounds, and they have an easier time understanding spoken instructions than written ones.

**Read & Write Learners-** This preference is for information displayed as words. To a learner with this preference, "talk" is okay, but a handout is better. Not surprisingly, many academics have a strong preference for this modality.

**Kinesthetic Learners-** Kinesthetic learners prefer to being involved in activities. They need to apply the information and make it their own by constructing something or practising a technique or skill. In this learning takes place by the students carrying out physical activities, rather than listening to a lecture or watching demonstration.

*Ralph W. Tyler* quoted, *"Learning takes place through the active behavior of the student: it is what he does that he learns, not what the teacher does."* It can be concluded that only 10% learn through Reading, 20% through Listening, 30% through seeing pictures, 50% through watching videos, 70% through participating in a discussion and almost 90% by doing real things.

Overall we could say that the approach of all individual vary according to different level of human cognition - i.e. thinking, learning, and understanding. To understand this Benjamin Bloom Carried out research in the development of classification of levels of thinking behaviours in the process of learning known as **Bloom's Taxonomy.** He did in this to promote higher forms of thinking in education, such as analyzing and evaluating concepts, processes, procedures, and principles, rather than just remembering facts (rote **learning**). It is a set of three hierarchical models used to classify educational learning objectives into levels of complexity and specificity. The three lists cover the learning objectives in cognitive, affective and psychomotor. We are fortunate that we live in 21$^{st}$ century where we have access to various technologies which we can use for imparting knowledge. Technology-enabled Learning aims to focus on increasing access to quality teaching and learning by supporting policy formulation and innovation in the application of information and communication in education, and the development of these skills. Students today have access to the digital tools and media-rich resources that will help them explore, understand, and express themselves in the world they will inherit tomorrow. We use mail, Google forms, PowerPoint presentations, e-learning, video conferencing etc. which proves to be a boon in learning. We have so many methods and ideas but still the major issue remains that how to keep the interest in class and learning alive.

If keeping someone's interest in a lecture was a business, it would have an 80 percent failure rate rightly said by J. Mdiena. We should always think what can we do to improve the quality of our lectures so that they are engaging, memorable, and lead to deeper understanding of the content. Between lectures one may try to start class with a two-minute fun activity: read a story from a newspaper, comment on news, on last night's game, talk about a restaurant on Roadside or a fun activity on Roadside, show a short video. Do random selection of student, and have them introduce themselves to you or to the class, or say what they hate most about the class so far.
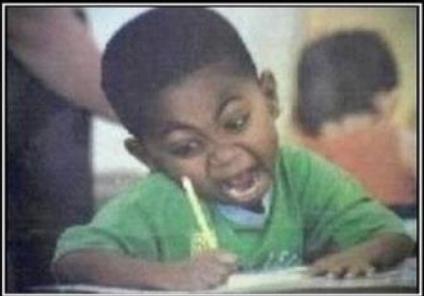
Break the monotony: set your watch, and take a 1' break in the middle, and stop whatever you do, sit down, change tone, and ask them something or go at the back of the room and sit next to a student and chat. The goal is not to make your audience laugh, but to break the monotony. The fact that you are making an effort is always appreciated.

Another aspect which we need to work while teaching and learning especially in country like India, where we have lack of job opportunities is Entrepreneurial education. The development of entrepreneurship has important benefits, both economically and socially. Entrepreneurial education produces knowledge and highlights the importance of participating in the real issues of society, contributing thus to the economic and social progress, to a better quality of life. In the global competition of the economy, the entrepreneurial education is the main factor that makes the essential differences among countries. "Invention and entrepreneurship are at the heart of national advantage". The most economic developed countries are those that pay special attention to education and are more interested in the development of the educational and training programs in entrepreneurship. These states promote and facilitate entrepreneurial education to form and develop the entrepreneurial skills required by a constantly changing society. The education in entrepreneurship can be successfully developed by the involvement of the education system in partnership with business environment and promoting a culture of entrepreneurship. Therefore, school education can contribute to the developing entrepreneurship skills and to the knowledge about business and about the role of entrepreneurs in society. Also, education can contribute to the encouraging entrepreneurial initiative and to the development of the entrepreneurial attitude. Entrepreneurship is considered a key competence for all and promoting the entrepreneurship is a central objective of the European Union for job creation and competitiveness growth. Being an entrepreneur is not easy.One should always be highly motivated and must posses an **ability to do work one doesn't like as effectively as the work that one likes.**

- Naman Agarwal
II Year
15EJCIT046
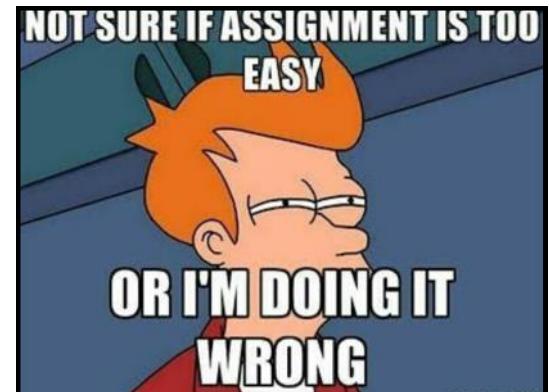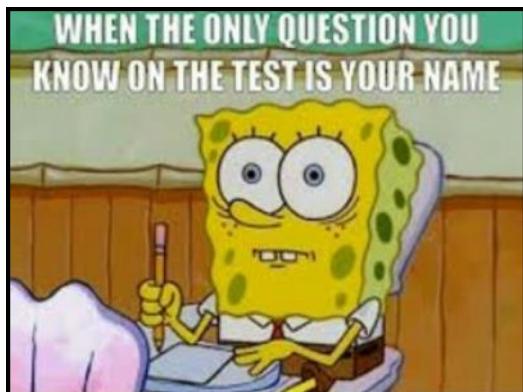
**Department of Information Technology**

# IT Newsletter

# Laughter Junction
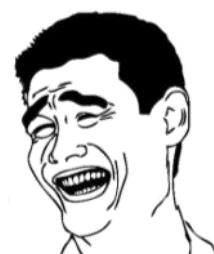
Two kittens are on a sloped roof. Which one falls off first? The one with the lower mew!
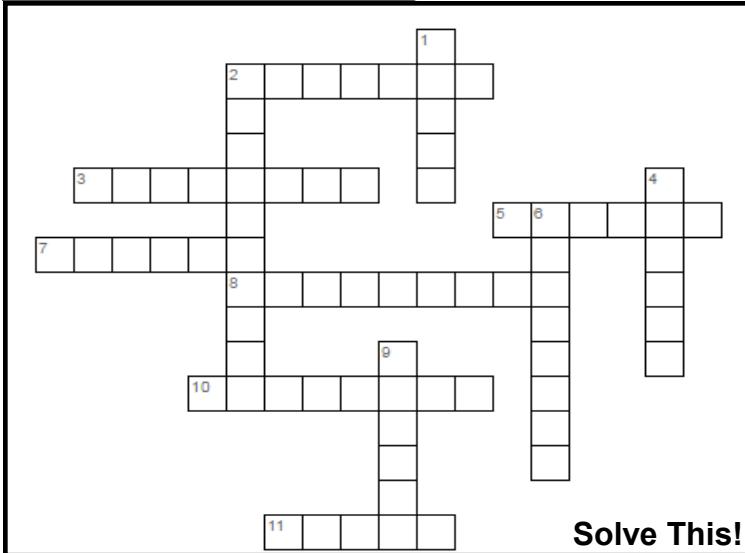
An indeterminate beam walks into a bar. The bartender asks "what can I get ya?" and the beam replies "Just give me a moment."

- Ayushi Mathur
II Year
15EJCIT018

**Department of Information Technology**

# IT Newsletter
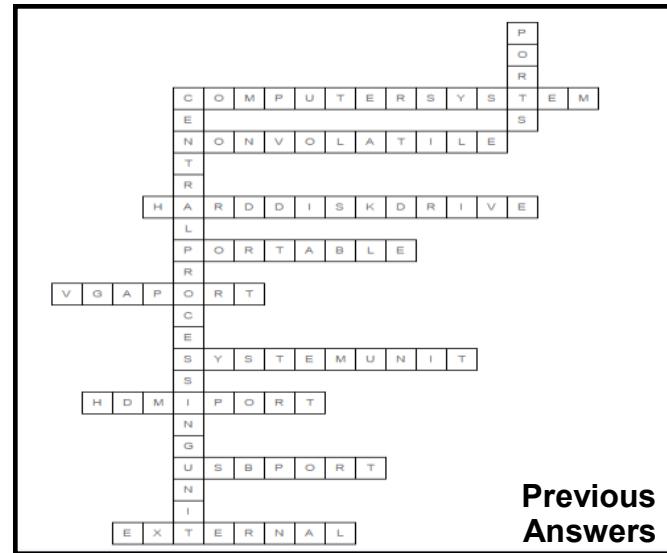
## Frolic Corner

## CROSSWORD

**Solve This!**

**Previous Answers**

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### Across
2 Watch and View
3 Movies Disks
5 Carry files with you
7 Portable Computer
8 Stores Files
10 Has letters and numbers
11 Squeak

### Down
1 Sends out signals to the internet
2 To speak into
4 So people can see you
6 Sounds come out
9 To connect things

## If Programming Languages Were Superheroes

**C**
Noone wants to call him to save them in case of an emergency.
Everybody thinks he can do anything.

**C++**
Powerful as hell. Can actually do anything.
God save you if something goes wrong.

**ShellScript**
Qick, Fast and Always ready for action.
Can't do without it.

**Javascript**
Everyone's favourite. Has a good part with armor and lots of weapons.
Use it long enough, and bad part starts to show up.
Battery drains and often backfires.

**Department of Information Technology**

# IT Newsletter



## WikiLeaks claims CIA has been hacking iPhones since 2008

WikiLeaks on Thursday released a new set of data named 'DarkMatter' where it claimed that the US government's Central Intelligence Agency (CIA) has been hacking the iPhone since 2008, a year   after it was launched. The CIA created a malware to evade the iPhone's security mechanisms, WikiLeaks said. It further claimed that the CIA has been hacking Macs since 2005.
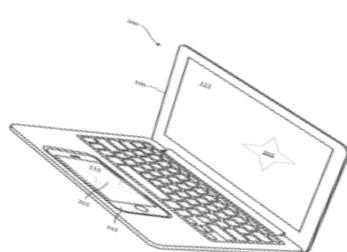
## Four jail inmates enter Limca book of world record for making app

Four jail inmates of Haryana's Bhondsi Jail have entered the Limca Book of Records for making an app called 'Phoenix'. Installed at 11 Haryana      prisons, the app helps in managing prison canteens and case history of prisoners. To make the app, prisoners were for the first time, sent to other jails within the state for "work purposes."

## Cant guarantee ads wont show near offensive content: Google

Google parent company Alphabet's Chairman Eric Schmidt has said that the technology major "can't guarantee... but can get pretty close" to ensuring that an ad doesn't show up next to offensive content on its platforms. This comes after brands like BBC, Domino's, and Hyundai boycotted Google and withdrew their ads in the UK for appearing next to videos promoting terrorism.

## Apple files patent to use iphone as trackpad for laptops

A patent filed by Apple shows how an iPhone can be used in place of a trackpad for a laptop. The iPhone would also provide the processor, graphics card,     memory, and storage for the entire laptop, while the laptop itself would include display and batteries. The patent also shows how an iPad can be used as a screen for laptops.

Avish Jain
II Year
15EJCIT016

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# Gadgetxx

## Mevo

Mevo packs a 150-degree wide-angle lens and a UHD 4K sensor, plus a rechargeable battery, its own Wi-Fi hot spot, and a stereo audio system all into its compact body. Download the free app, and with your iPhone or iPad, you control as many as nine virtual camera angles, each at a crisp 720p resolution. Instead of switching physical cameras, you tap a part of your screen to change angles. Or you can let the system's facial-recognition switch them for you. The whole process feels a lot like being in a studio, but with even smoother pans. The editing part is easier, too. The smart software tracks each figure in the frame, and can automatically show the "camera" for that person. Attach Mevo to a tripod, and you have an instant mobile studio.

## Sony Xperia projector

Like other portable projectors, you can use the Sony Xperia Touch to beam images up walls, tables, and other flat surfaces. Unlike them, you can interact with any images it projects, since the whole thing becomes a functional touch screen display, too. That's right, instead of beaming images that you can watch like TV, the projected visuals essentially become a giant tablet that you can use to play games, interact with apps, and more. Whether you want to browse through a recipe app on the counter surface next to the stove, scroll through an Excel spreadsheet right behind the monitor, or play favorite game on the coffee table, this thing will do the trick. The Sony Xperia Touch is a short-throw projector that can beam 100-lumen images up to 80 inches diagonal at 1366 x 768 resolutions; it facilitates 10-point touch sensitivity, so you can perform advanced gestures just like in traditional mobile devices.

- Gaurav Gupta
II Year
15EJCIT026

# Starting with GitHub

The GitHub comprises of two technical terms Git and Hub. Git is the Heart of the GitHub. Hub is a command line tool that wraps git in order to extend it with extra features and commands that make working with GitHub easier. Git is used to manage any type of file such as Word Documents or Final Cut Projects. **Git** is an example of **Version Control.** Version control is a system that records changes to a file or set of files and helps us recall specific versions later if needed. Ex: Subversion (SVN), CVS etc. It allows you to:

⇒ Revert files or the whole project to an earlier state

⇒ Compare changes over time

⇒ See who modified what?

⇒ Control modifications by collaborators with the permission of admin/owners

Github is a repository hosting service for Git

⇒ GitHub provides a web-based graphical interface that works on top of GIT. It can also be treated as a social platform to share knowledge and work.

⇒ It also provides access control and several collaboration features, such as wikis and basic task management tools.

Some terms in GitHub which are used while working in GitHub.

**1. Creating a repo**

Creating a repository for multiple people to work together **Master in a repository.** This is the final version that is considered ready to use by anybody in the team or outside if repository is public.

**2. Creating a Branch**

• Create a branch in your project, for an environment where you can try out new ideas.

• Changes you make on a branch don't affect the master unless pull request is accepted.

• Changes committed to branch reflects for you to keep track of different versions

**3. Adding Commits**

• Keeps track of your progress as and when you work on a branch or master.

• Creates a transparent history that others can follow to understand what you've done and why.

**4. Forking a repositories**

• It creates a copy for you to work on independently without any changes to theirs.

• Submit a pull request to owner so that the owner can incorporate changes.

**Department of Information Technology**

# IT Newsletter

**Working with GitHub:**

1. Signup in https://github.com/

2. Create a new repository.

3. Create / upload the project.

4. Commit it.

**Sharing your repositories for group project.**

Navigate to the repository on Github you wish to share with your collaborator.

1. Click on the *"Settings"* link in your repository which you want to share.

2. On the new page, click the *"Collaborators"* menu item on the left side of the page.

3. Start typing the new collaborator's GitHub username into the text box.

4. Select the GitHub user from the list that appears below the text box.

5. Click the *"Add"* button.

**GitHub with local files**

1. Install Git https://git-scm.com/downloads

2. Right Click local directory —> open GIT Bash, enter the following command.

3.Create a Pull Request for the changes by your group members.
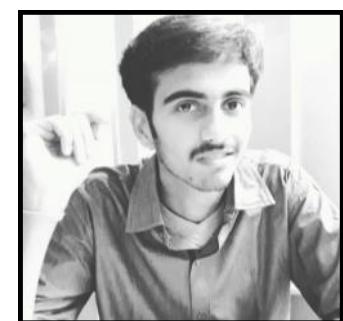
```
git init
git remote add origin https://github.com/atul-modi/GitHubDemo.git

git pull origin master
git checkout -b yourname
/* Modify The Code*?
git add *
git commit -m "Changes That You Have Made"
git push origin yourname
```

When the repositories have been shared with your group members then the above code can be used by all the group members for updating the projects.

*You can replace https://github.com/atul-modi/GitHubDemo.git by your own repository.*

- Atul Modi
III Year
(14EJCIT020)
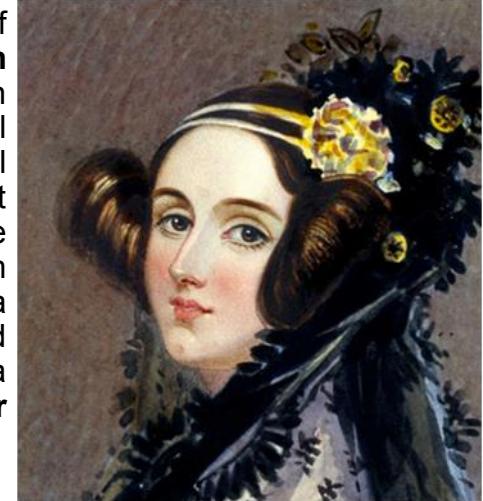
**Department of Information Technology**

# IT Newsletter

## Ada Lovelace

Augusta Ada King-Noel, Countess of Lovelace was an **English mathematician and writer,** chiefly known for her work on Charles Babbage's proposed mechanical general-purpose computer, the Analytical Engine. She was the first to recognize that the machine had applications beyond pure calculation, and created the first algorithm intended to be carried out by such a machine. As a result, she is often regarded as the first to recognize the full potential of a "computing machine" and the **first computer programmer.**

Here are some unknown facts about her in her biography given below.

### Early Years
Ada Lovelace, born as Augusta Ada Byron, was the only legitimate child of the famous poet Lord George Gordon Byron and Anne Isabella Milbanke, Lady Byron separated from her husband only weeks after their daughter was born. Ada never saw her father. He died in Greece when Ada was 8 years old.

Ada had an unusual upbringing for an aristocratic girl in the mid-1800s. At her mother's insistence, tutors taught her mathematics and science. Such challenging subjects were not standard fare for women at the time. From early on, Lovelace showed a talent for numbers and language. She received instruction from William Frend, a social reformer; William King, the family's doctor; and Mary Somerville, Scottish astronomer and mathematician.

### Babbage and the Analytical Engine
Around the age of 17, Ada met Charles Babbage, a mathematician and Inventor ,the much older Babbage served as a mentor to Ada. Through Babbage, Ada began studying advanced mathematics from University of London.

Ada was fascinated by Babbage's ideas, known as the father of the computer. He invented the difference engine, which was meant to perform mathematical calculations. Ada got a chance to look at the machine before it was finished, and was captivated by it. Babbage also created plans for another device known as the analytical engine, designed to handle more complex calculations.

Ada was later asked to translate an article on Babbage's analytical engine that had been written by Italian engineer Luigi Federico Menabrea for a Swiss journal. She not only translated the original French text into English, but also added her own thoughts and ideas on the machine. Her work was published in 1843, in an English science journal. Ada used only the initials "A.A.L.," for Augusta Ada Lovelace, in the publication.

In her notes, Ada described how codes could be created for the device to handle letters and symbols along with numbers. She also theorized a method for the engine to repeat a series of instructions, a process known as looping that computer programs use today. Ada also offered up other forward-thinking concepts in the article. For her work, Ada is often considered to be the first computer programmer.
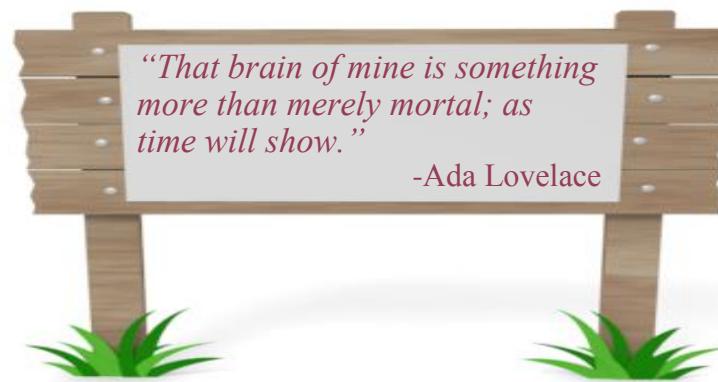
## Personal Life
In 1835, Ada married William King, who became the Earl of Lovelace three years later. She then took the title of Countess of Lovelace. They shared a love of horses and had three children together. Ada's health suffered, however, after a bout of cholera in 1837. She had lingering problems with asthma and her digestive system. She reportedly experienced mood swings and hallucinations.

## Legacy
Ada Lovelace's contributions to the field of computer science were not discovered until the 1950s. Her notes were reintroduced to the world by B.V. Bowden, who republished them in *Faster Than Thought: A Symposium on Digital Computing Machines* in 1953. Since then, Ada has received many posthumous honors for her work. In 1980, the U.S. Department of Defense named a newly developed computer language "Ada," after Lovelace.

## Death
Lovelace died at the age of 36- the same age that her father had died- on 27 November 1852, from uterine cancer probably exacerbated by bloodletting by her physicians. She lost contact with her husband after she confessed something to him on 30 August which caused him to abandon her bedside. What she told him is unknown. She was buried, at her request, next to her father at the Church of St. Mary Magdalene in Hucknall, Nottinghamshire. A memorial plaque in Latin to her and her father is in the chapel attached to Horsley Towers.

*"That brain of mine is something more than merely mortal; as time will show."*
-Ada Lovelace

- Ayushi Mathur
II Year
15EJCIT018

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# IT Newsletter

# ISRO launched 103 satellites

As India looks to grab a larger slice of the lucrative commercial space market, with 100 of the 103 satellites set for launch belonging to foreign nations, including the US and Germany. ISRO's workhorse rocket PSLV-C37 will take the satellites into space from its Satish Dhawan Space Centre in Sriharikota, Andhra Pradesh.

We are making a century by launching over 100 satellites at one go,‖ S.Somnath, director of the Liquid Propulsion Systems Centre of ISRO, told a plenary session on the second day of the on going Indian Science Congress.

The space agency had earlier planned a launch of 83 satellites in the last week of January, of which 80 were foreign ones. But with the addition of 20 more foreign satellites, the launch was delayed by a week and took place in first week of February, Somnath added. *"These will be 100 micro-small satellites, which will be launched using a PSLV (Polar Satellite Launch Vehicle)- C37. The weight of the payload will be 1350 kg, of which 500-600 kg will be the satellite's weight"*, ‖ as the per the known facts. The launch was a major feat in country's space history as no exercise on this scale has been attempted before.

Last year, ISRO launched record 20 satellites at one go. The highest number of satellites launched in a single mission is 37, a record that Russia set in 2014. The US space agency Nasa launched 29.

Prime Minister Narendra Modi's pet South Asian satellite project, meanwhile, will take off in March.

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ISRO said the co-passenger satellites comprise 101 nano- satellites, one each from Israel, Kazakhstan, the Netherlands, Switzerland, United Arab Emirates (UAE) and 96 from United States of America (USA), as well as two from India. Photo courtesy: Isro



The South Asian satellite will be a part of GSAT-9, which will be launched in March this year, M Nageshwara Rao, associate director of ISRO said.

The communication satellite was to be launched in December 2016, but was slightly delayed as some other satellites are to be launched before that.

Sources said talks with Afghanistan to have the country on-board for the project is in its final stages.

Envisaged as a gift to its neighbours, the project, earlier known as Saarc satellite, faced stiff resistance from Pakistan. The neighbouring country wanted it to be launched under the aegis of the South Asian regional forum. It later backed out of the project.

Apart from India, the satellite will benefit Sri Lanka, Maldives, Bangladesh, Nepal and Bhutan.

- Anant Upadhyay
II Year
15EJCIT005

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# IT Newsletter

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**APRIL 1**

APRIL FOOLS DAY

**APRIL 14**

B.R. AMBEDKAR REMEMBRANCE DAY

**APRIL 14**

BLACK DAY

**APRIL 18**

WORLD HRITAGE DAY

**APRIL 2**

INTERNATIONAL CHILDREN'S DAY

**APRIL 21**

NATIONAL CIVIL SERVICE DAY

APRIL *Special*

**APRIL 7**

WORLD HEALTH DAY

**APRIL 22**

EARTH DAY

Shalu Bhardwaj
15EJCIT072
II Year

**APRIL 13**

JALLIANWALA BAGH MASSACRE DAY

**APRIL 29**

INTERNATIONAL DANCE DAY

**APRIL 25**

WORLD MALARIA DAY

**APRIL 23**

WORLD BOOK DAY

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# IT Newsletter

# RTU Merit List

**Kirti Aggarwal**
Rank- 6
Percentage- 81.63%

**Chetna Chotrani**
Rank-10
Percentage- 80.76%
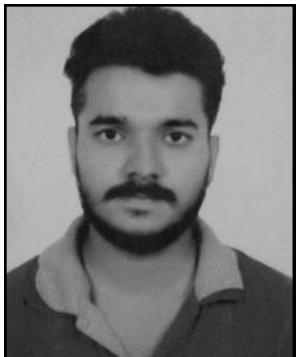
# GATE Result

**Panakj Soni**
CS17S63023142
Rank- 2137
Score- 45.71

**Pramod Nagar**
CS17S63024120
Rank -7795
Score - 30.37



*ICSCE – 2017*

**Opportunity to be caught!!!**

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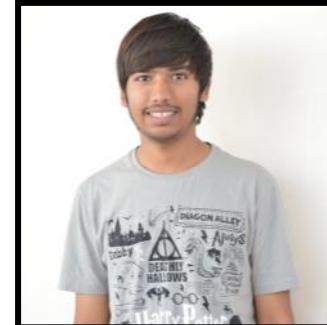
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Anant Upadhyay
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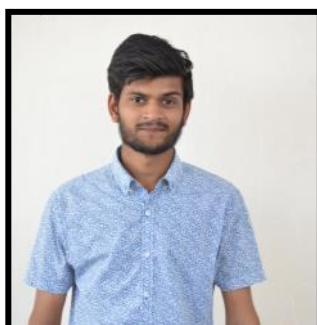
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Avish Jain
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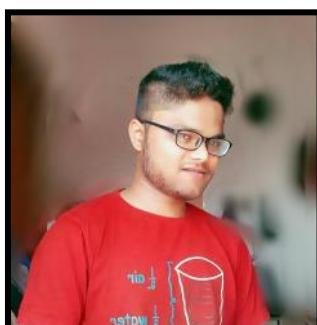
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II Year

Gaurav Gupta
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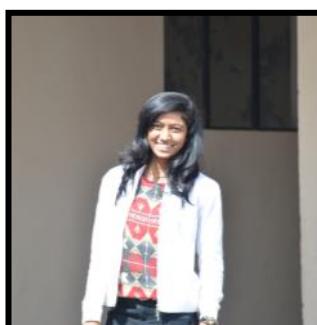
Kunal Mishra
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Asmita Goswami
II Year

Ayushi Mathur
II Year

Shalu Bhardwaj
II Year