JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

CSE BYTES
A CSE NEWSLETTER

**SEP-OCT
2019 EDITION**

**DEPARTMENT OF COMPUTER
SCIENCE & ENGINEERING**

INDEX

ABOUT
JECRC FOUNDATION

An individual's freedom lies in the way he is taught to express his thoughts, and this expression essentially comes from education. Established over a decade ago, JECRC Foundation has been providing quality education to its students, setting rationale in their minds for the transformation of technology, and ideologies of the world at large.

Perceived as the unparalleled educational group, JECRC Foundation is continuously ascending the steps of glory by establishing premier institutes in the field of engineering, management and pure & applied sciences; viz. :

Jaipur Engineering College & Research Centre (JECRC)
JECRC UDML College of Engineering (JECRC UDML)
JECRC University

Every year, more than 5000 students entrust JECRC Foundation with the responsibility of shaping their minds for a better future. Commanding the priority list of best engineering colleges in Jaipur, it has become the preferred choice of students from all across India, showing keen interest in admissions through various mediums of JEE and REAP.

Development of a unique and creative approach to life and education is the prime focus of JECRC Foundation.

DIRECTOR'S DESK
Mr. ARPIT AGRAWAL
Director, JECRC

Education acts as a pillar for building an affluent and fortunate future. Keeping this in mind and griping up the importance of good education for grooming children, JECRC Foundation has been serving it's best efforts. We at JECRC aim at making the learning proccess boundless and bona fide so that students can explore every nook of themselves and can procure best in them.

This noteworthy attempt of bringing in notice the happenings of department and giving the achievements a people's glance is a work of great endeavor and admiration. As this newsletter is again out for its's purpose of connecting with all the members, I appreciate the toil of CSE department for keeping up the initiative and putting enormous efforts behind this strenuous task. I am glad for having this initiative graced with such a great team.

The dedication and commitment of CSE department for making JECRC a central hub of all intellectual activities and acting as an axis to provide a manifesto for innovative discussions among juveniles is remarkable.
Apart from this, enormous students getting placed in distinctive companies fills me with immense pleasure and a feeling of pride.
I have no doubts that with this pace, the institute will unemittingly march ahead of other eminent institutes.

PRINCIPAL'S DESK
Prof.(Dr.) V.K. CHANDNA
Principal, JECRC

To grow a tree of invention, a seed of innovation needs to be sown. Engineer's mind is the hub of innovative thoughts which when flourished in right direction can ripe into great inventions. We at JECRC ensure that the students are given proper guidance and superintendence to espouse meticulous path for themselves.

The faculty members of CSE department and technical staff members make sure to equip the students with newly emerging technologies, outcome based learnings, research driven projects and various other programs which are structured for assisting the students to grow in diverse dimensions. The teaching technique is such that students are furnished with both professional and technical knowledge along with the enhancement of their management skills.

Within a short span of time, JECRC with the help of supportive faculty members and cooperative staff is achieving eminent progress and will strive towards attaining greater heights in near future as well.

HOD'S DESK
Dr. SANJAY GOUR
Head of Department CSE, JECRC

'Opportunities don't happen. You create them.'
Being a part of an esteemed institution like JECRC, the CS department endeavours to constantly achieve it's aims and objectives. The constructive faculty members are incorporating new plans and innovating new schedules just to meet the criterion of an ideal engineer.

The CSE department is showing remarkable growth in terms of education and futuristic approach. The heightening ambitions of the CS students is a constant source of motivation for the college and faculty, demanding changes at different levels and organising more co-curricular activities. Students have shown keen efforts in start ups thus experiencing innovation at higher altitudes.

The active participations in hackathons, Ted-ex , workshops and sessions are making them a more productive learner. With a thought of triumph in our mind, we are nurturing talent and impelling students to be entrepreneurs, researchers, programmers and developers as well.

Vision & Mission of JECRC

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.

VISION

MISSION

- 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.

Vision & Mission of Department

To become renowned Centre of excellence in computer science and engineering and make competent engineers & professionals with high ethical values prepared for lifelong learning.

VISION

MISSION

M1. To impart outcome based education for emerging technologies in the field of computer science and engineering.
M2. To provide opportunities for interaction between academia and industry.
M3. To provide platform for lifelong learning by accepting the change in technologies.
M4. To develop aptitude of fulfilling social responsibilities.

Program Outcomes

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and Computer Science & Engineering specialization to the solution of complex Computer Science & Engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex Computer Science and Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex Computer Science and 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 Computer Science and Engineering 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 Computer Science 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 Computer Science and Engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional Computer Science and 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 Computer Science and 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 in Computer Science and Engineering.
10. **Communication:** Communicate effectively on complex Computer Science and 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 Computer Science and 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 in Computer Science and Engineering.

PROGRAM EDUCATIONAL OBJECTIVES

1. To provide students with the fundamentals of Engineering Sciences with more emphasis in Computer Science & Engineering by way of analyzing and exploiting engineering challenges.
2. To train students with good scientific and engineering knowledge so as to comprehend, analyze, design, and create novel products and solutions for the real life problems in Computer Science and Engineering
3. To inculcate professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, entrepreneurial thinking and an ability to relate engineering issues with social issues for Computer Science & Engineering.
4. To provide students with an academic environment aware of excellence, leadership, written ethical codes and guidelines, and the self-motivated life-long learning needed for a successful professional career in Computer Science & Engineering.
5. To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge in Computer Science & Engineering.

PROGRAM EDUCATIONAL OBJECTIVES

PROGRAM SPECIFIC OUTCOMES
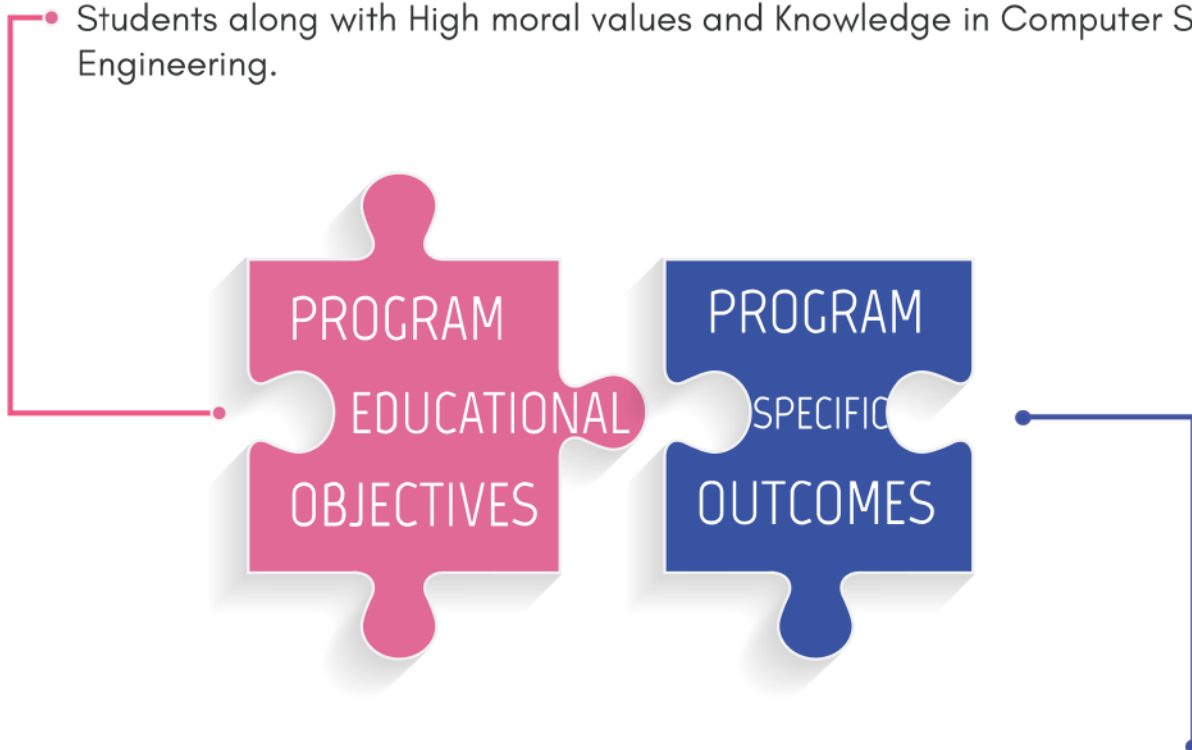
PROGRAM SPECIFIC OUTCOMES

1. Ability to interpret and analyze network specific and cyber security issues in real world environment.

2. Ability to design and develop Mobile and Web-based applications under realistic constraints.

BOL 2.O

Put a voice out there, and the world is bound to listen to you. Visioning same, team ATRANGI - The Dream Follower group of JECRC Foundation conducted BOL 2.0, an open mic competition which witnessed the presence of stars twinkling their talents and huge number of artists.

Out of 350 performers, 15 were selected for the final battle. The finalists gave their all to impress the esteemed guests which included Kavi Abdul Gaffar, Mrs. Madhuri Muskan Sharma, Mr. Suresh Albela(Laughter Challenge Winner) and RJ Shonali. To grace the event and inspire the trend of art and culture in the institution, honourable Director and Principal of JECRC along with various other dignitaries were also present.

In a tough war of words and expressions, Mr. Hemant Kumawat was declared as the winner and Mr. Kartik Chandna stood at the runner up position. It's the poets and writers who awaken the masses and call for action, and it is us who need to listen.

JOY OF GIVING WEEK

"Thousands of candles can be lighted from a single candle, and the life of the candle will not be shortened. Happiness never decreases by being shared."

Substantiating the quotation of lord buddha, Team Zarurat, an incredible social enterprise of JECRC Foundation working overwhelmingly for sprinkling their motto of spreading smiles and embracing innocence conducted 'Joy of Giving Week'.

Assisting, Amusing and Appreciating the presence and potential of innocent children was done and dusted with full vehemence and exuberance.

JECRC all heartedly congratulates and confers its reverence and contentment for a great success of such an amazing event by team ZARURAT.

Kudos team!

ROAD SHOW AT ALBERT HALL BY SUHASINI

Suhasini group of JECRC Foundation conducted Roadshow 2019 based on the theme "Girlforce: Unscripted and Unstoppable". On 13th October, at Albert Hall Museum, Mayor Vishnu Lata and Mr Dhara Singh (ADM South Jaipur) were the chief guests for the event.

A crowd of thousands was addressed via the show and had many performances explaining the need of this hour for women empowerment. On this occasion, Lyrical dance act, poetries, singing, and a special act from the students of Govt Seth Anandi Lal Poddar Deaf and Dumb Senior Secondary School narrated the stories of every suppressed female voice in the best manner. The Nukkad Natak put together by the team with great efforts gained overwhelming applause from the audience.The conclusion happened on a musical note with a band performance sending the message of gender equality.RJ Geetanjali hosted the Roadshow in the best possible manner.

WORKSHOP ON CYBER SECURITY

An intractive technical workshop on cyber security was conducted by Mr. Anshul Patidar(Business Development Executive CYBEROPS InfoSec LLP, Jaipur) and Mr. Palash Verma(Information Security Analyst CYBEROPS InfoSec LLP, Jaipur) in the IBM Lab on 6th September 2019. The session was started by introducing the students about the latest trends in the field of computer networks. The experts explained the students about various types of cyber security threats and the solutions to prevent them. They also explained the basic ways of cyber crimes and the latest case studies of the same. The students have hands-on experience of cyber attacks and security in the guidance of the experts.

TEACHERS' DAY

It is very rightly said by our former president late Dr. A.P.J. Abdul Kalam sir that teaching is a very noble profession that shapes the character, caliber, and future of an individual. To show respect and love towards the faculty members, students of respective classes celebrated teacher's day on 5th Sept 2019 with full enthusiasm. Students presented dances, songs, mimicry, enactments and games. Teachers and students spent time with each other and had fun.

SOCH TURNS FIVE

With full ebullience and vehemence, Soch Kuch Kar Dikhane Ki completed five years of embracing the betterment and change of society.

Members of team paid a visit to Mother Teresa Home - an orphanage and celebrated the occasion of Foundation day by spreading smiles on the faces of children and adults present there. Team members provided the people with food items and created moments of cheerful dance, claps of joy, stories and warm gestures of tenderness .

The celebration ended with the cutting of cake and a vow of preserving such moments of happiness in near future too.

VASTRA SAMMAN

"Providing hope through gift of clothing"
Team SOCH of JECRC foundation convey this scared sentiment in the society. "Vastra Samman" is donation of clothes to the needy people to protect them from cold , heat & wind and these clothes are offered for the decoration of one's body and spread happiness.Taking a pioneering purposeful step in this direction, Team Soch distributed items of basic amenities like clothing, gifts, etc to the needy and downtrodden on Saturday, 19 October 2019 at "Purple Group" construction site, Vaishali Nagar, Jaipur. Unexpected number of units 4027+ were generously distributed. The team arrived on site at around 11:00 am beginning the process and starting the distribution. Volunteers also spread joy by dancing with the children. The duration of three hours became enjoyable and unforgettable. Every swayamsevak of team Soch is continuously committed to bring new consciousness in the society, and JECRC supports every such individual aiming to light the world around.

VASTRA SAMMAN

Digital Marketing Yesterday, Today and Tomorrow

In this digital age, digital marketing is a mode that is sweeping across the entire world. The inclination of digital marketing is budding day by day with the ideas of online marketing that is turning into a crucial platform of digital marketing beside with the electronic gadgets like the digital billboards, tablets and smart phones and many more that facilitate digital marketing. The huge budge in mobile, forcing brands and companies to meet the increasing consumerism demand and also it changes the way they look at the marketing platforms. And few years from now it will be eventually seen that the conventional marketing being replaced by digital marketing. Content writing is not enough to stay at the game. Visuality is important more than ever. Many creative apps and new technologies continue to rise. To attack the future, first stay tuned with the past.

Evolution of Digital Marketing

Digital marketing is becoming popular these days. But the evolution started off with the invention of Radio by Marconi. Some argue that actually it kicked off with the invention of email. The term Digital Marketing itself was coined in 1990 because the first search engine Archie was invented. In 1993 first clickable Ad banner was aired. Yahoo made its debut then followed by Google. Cookie technology which was a code that keep track of user information in client browser also played an important role in the history of digital marketing.

The year 2000 was a milestone for digital marketing. The invention of DotCom made many internet startups to shut down. Google introduced Adwords which enable marketers to advertize their products. Social media was introduced. Later Google was made public and Facebook was introduced. YouTube was launched which enabled marketers to promote their brands. The mobile technology caught fire and WhatsApp was launched. In 2011 Google+ was introduced which promoted Digital Marketing. There is no look back from then till now.

Digital Marketing Definition and its types

According to Wikipedia digital marketing is defined as follows. Definition: "Digital marketing is the marketing of products or services using digital technologies, mainly on the Internet, but also including mobile phones, display advertising, and any other digital medium."

Digital Marketing Definition and its types

- Communication is mostly online with the help of social media.
- Campaign is easier and faster with the help of digital tools
- Content though open for all is made available to target audience through social media.
- It is mostly meant for global audience

Digital Marketing Today

Today digital marketing is formed by the supply of a broad and wide digital audience. In step with analysis at good insights:

- The number of web users worldwide (as of last year) has crossed four billions.
- The number of social media users worldwide (as of last year) is nearly three billions.
- The number of mobile users worldwide (as of last year) is around five billions.
- These numbers reflect a definite rise in usership from previous years.

  Also it is influenced by the subsequent trends

  Buyer's behavior

  70% of a client's journey is currently completed before a buyer even reaches intention sales. A set increase with personal sharing is here, inspired by digital media. This suggests that digitally native customers, like millennial and members of info Z, price personalization in their digital expertise.

  Format to reach customer

  Today, shoppers favor mobile phones as a medium for communicating with the web followed by laptops, desktops, other electronic gadgets. Millennial are found to presently act with 3 different kinds of screens. Gen Z act with Smartphone, TVs, Laptops, and desktops, Ipads or IPods.

Digital Marketing Tomorrow

The Digital marketing is going to change drastically because of the adoption of new technologies. Also the web is getting saturated day by day. The Digital Marketing is not limited to the planet of advertising & marketing only, but it has been choice between our pasts and today, and for sure, it will shape up the future of human civilization. It will be the lashing force for the channelization of human civilization and there will not be any dilemma that digital Technology is a Boon or Bane! The future of digital marketing looks like: a blend of digital and conventional marketing where digital marketing impels customers to interrelate with the product in person and vice-versa.

Now-a-days companies simply can't afford to overlook digital marketing if they want to stay viable in the market. And as the world becomes more connected, digital marketing will continue to coerce innovation on the internet, just as the internet drives novelty in digital marketing.

In future, digital marketing are not meant for just driving people to your site; it will be about creating "buzz" around your brand that trickle over into the customer's daily life. Technology is classier and with new technologies like machine learning and artificial intelligence we are going to see the changes in online marketing too. Once what we used will not exist tomorrow. Facebook may lose fame and instagram may pick up. Chatbots will be used more. Content marketing will see a boom. Emails will be more personalized.

Conclusion

Marketing has reached the peak with change in human behavior and marketers are performing well. The exquisiteness of digital marketing area is that it is quite dynamic and doesn't belong to a rigid time period. The improvement that occur every now and then in the digital marketing space, provides everyone with a fair chance to grow. There are various digital marketing drift and tactics require to be modified to rest at the center of user attention and search engines. It is required for everyone to keep our eyes open and develop the best digital marketing etiquette that will keep us ahead of the innovative curve.

B.Umamaheswari
JECRC Foundation, Sitapura,
Jaipur, Rajasthan

Impact of social media on Indian youth

Introduction: Due to the rapid emergence of Web 2.0 technology, social media has become the main topic of discussion and investigation. The current trend in the use of social media provides evidence that this technology is gaining importance in the lives of youngsters (Creighton, Foster, Klingsmith and Withey, 2013). People use social media for a variety of reasons; to communicate, interact, update / remind each other, socialize, share and search information and knowledge, collaborate, as well as entertain and relax. In public and private places, it is often the case that people use the monopod to "selfie" their own photos and immediately upload them on their pages or read newspapers, e-books and blogs, play video games, watch movies or chat via instant messengers, laptops, tablets, smartphones or other devices. In fact, social media users have been found to be addicted to mobile text messages and social networking sites.

 The impact of these social applications is also shown in India. Currently, social media is part of the lives of most Indian youth. Internet use is now significantly shifted to social media sites. Undoubtedly, social media has its advantages, but excessive use of social media affects the lifestyle of young people. in addition, statistics show that addiction to social media has increased health problems and changed behavior. This article focuses on the impact of social networking sites on youth, good, bad and major problems associated with social applications, i.e. Facebook, YouTube, Whatsapp, Instagram, Twitter and TikTok.

Growth of Social App: According to the IAMAI report, 97 percent of users use a mobile phone as one of the devices that provide Internet access. While internet users increased by 7 percent in urban India, reaching 315 million users in 2018, and rural India drives digital adoption, registering a 35 percent increase in the number of Internet users over the past year, so to meet people's needs, various quickly emerged mobile applications and the number of applications is constantly growing.

 With the rapid development of social media, Facebook came in 2006 and triggered a social media boom. Instagram launched on October 6, 2010, and its growth grows to 1 million in two months. In 2012, Facebook was bought for $ 1 billion. It currently has over 600 million active users and is still growing rapidly.

 WhatsApp was founded in 2009 by Brian Acton and Jan Koum, and in December 2013 WhatsApp claimed that 400 million active users a month use the service. On February 19, 2014, Facebook announced that it was acquiring WhatsApp for $ 19 billion, which is the largest acquisition to date.

The most powerful Twitter platform was also launched in July 2006, which by February 2019 has 321 million active users.

In the hasty development of the short film industry, all types of short video applications appear at the right time and spread quickly. For example, TikTok is an social media app for iOS and Android for creating and sharing short movies with lip sync, comedies and talents. The application was launched by ByteDance in 2017 for markets outside of China. Bytdance launched the first Doyin on the Chinese market in September 2016. TikTok is the most downloaded social media app and is one of the best social media channels for Influencer Marketing due to its viral power of trendy videos generated by the younger generation compared to Instagram or YouTube.

Figure 1. Revels that WhatsApp again topped the download charts with four of the five most installed apps. Messenger on number 2 and Facebook is on 3 positions TikTok, which had ranked No. 4 overall.

Top Non-Game Apps by Worldwide Downloads for Q2 2019 — SensorTower

Overall Downloads	App Store Downloads	Google Play Downloads
1 WhatsApp	1 YouTube	1 WhatsApp
2 Messenger	2 TikTok	2 Messenger
3 Facebook	3 Instagram	3 Facebook
4 TikTok	4 Snapchat	4 TikTok
5 Instagram	5 Facebook	5 Instagram
6 Snapchat	6 WhatsApp	6 SHAREit
7 SHAREit	7 Google Maps	7 Likee
8 Likee	8 Messenger	8 Snapchat
9 YouTube	9 Pinduoduo	9 Hotstar
10 Spotify	10 Gmail	10 UC Browser

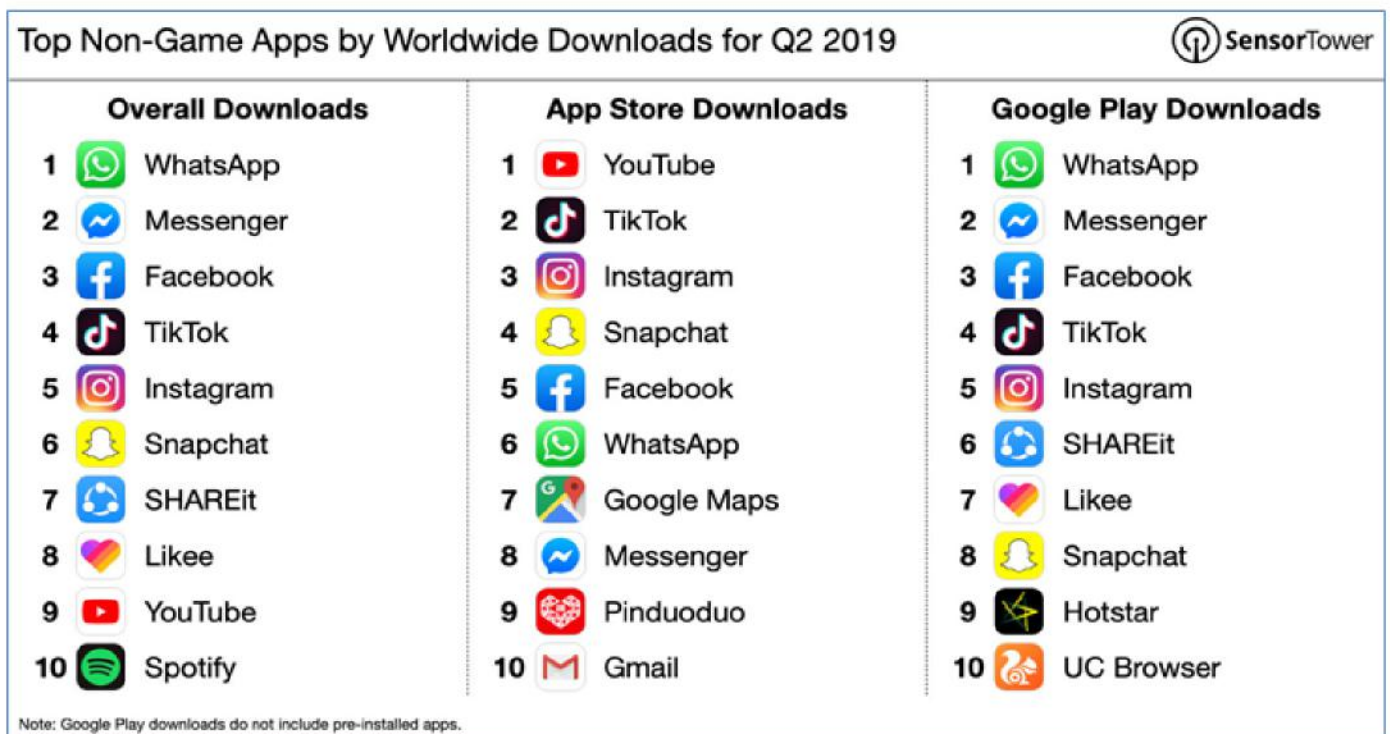Note: Google Play downloads do not include pre-installed apps.

Figure1. Top Apps by worldwide Downloads

As per Google report in February 2019 following table show the list of Influencer on Twitter, Instagram and TikTok.

Table 1. List of Influencer

Twitter	Instagram	TikTok
• Narendra Modi - 44.1 million followers. • Shah Rukh Khan – 36.5 million followers • Amitabh Bachchan – 35.2 million followers. • Salman Khan – 34.7 million followers. • AkshayKumar- 28.2 million followers. • Sachin Tendulkar-27.2 million followers. • Virat Kohli-26.7 million followers. • Deepika Padukone – 24.8 million followers.	• Piyanka Chopra Jonas. Followed by 42.5 Million users Priyanka Chopra is the most followed person on Instagram in India. • Deepika Padukone. • Virat Kohli. • Alia Bhatt. • Shraddha Kapoor. • Jacqueline Fernandez. • Akshay Kumar. • Anushka Sharma.	• Faisal Shaikh – 24.1 Million Followers • Jannat Zubair – 19.0 Million Followers • Riyaz Aly – 16.8 Million Followers • Awez Darbar – 14.3 Million Followers • Garima Chaurasia – 13.6 Million Followers • Avneet Kaur – 13.5 Million Followers • Manjul Khattar – 12.0 Million Followers • Nisha Guragain – 10.7 Million Followers • Adnan Shaikh – 10.6 Million Followers • Hasnain Khan – 10.4 Million Followers

Dr. Nilam Choudhary, Associate Proffesor
JECRC Foundation, Sitapura,
Jaipur, Rajasthan

SMART BUSINESS HACKATHON

You do not need money to be an entrepreneur, you need an idea with potential and the money will flow in. JECRC Foundation presented all budding entrepreneurs a platform to showcase business with the and investors country. The Hackathon ciation with 11th-12th Oc- the smart

and refine their plans, working on it choicest mentors from across the Smart Business conducted in asso- RTU Kota on tober witnessed business ideas of

more than 250 teams. The NASA app challenge also saw a curious participation of students wishing to develop new age solutions for many common problems. Prizes worth 2 lacs were distributed to the winners along with opportunities to revolutionize their idea. Shri Arpit Agarwal, Director JECRC and Dr Vinay Chandna, Principal JECRC Foundation congratulated all participants and winners and wished them a successful entrepreneurial future.

The winner of this 36 hour long Hackathon is team Odinson from RTU. Odin is the name of the supreme god of art and wisdom, and their team's name portrays thier manoeuvre and excellency just right. Here's an overview of the idea these guys worked on :- "Low cost automation with energy efficiency and management". Cheers

and huge congratulations to the runner up teams -Team DUMBLEDORE'S ARMY, ED APPLY and SOCIAL ROBOTS.

NASA SPACE APP

JECRC has always strived to inculcate and enrich the entrepreneurial environment in campus and country at large by creating an easily accessible and exhaustive set of resources for entrepreneurs, including students with quality brains, budding professionals, mentors and angel investors and venture capitalists through various educational sessions like startup meets, competition talks and so on. To fulfil the same, NASA SPACE APPS CHALLENGE was organized by JECRC FOundation.

The NASA Space Apps Challenge is a global collaboration platform conducted across 250 cities around the world.The Space Apps challenge brings together ideas from students, designers, startups, working professionals, research scholars and domain experts on one common platform.The pre-hackathon was conducted at the JECRC Foundation, Jaipur where 37 teams from all over Rajasthan coded and competed and the selected teams were invited to New Delhi for the final 48 hours hackathon where NASA will gave specific challenges to be solved. Three teams of JECRC were selected to represent their intellectual and ingenious ideas in National level hackathon at New Delhi.

GANDHI JAYANTI

Department of Computer Science and Engineering of Jaipur Engineering College & Research Centre has celebrated 150th birth anniversary of father of the nation Shri Mohandas karamchand Gandhi along with birth anniversary of the late prime minister Shri Lal bahadur Shastri. On this occasion various programs were organized by the department.

Extempore by Students:
Students were assigned 05 minutes to present their views on GandhiJi's vision. The program was a blend of various activities, thoughts and messages of father of the nation Shri Mohandas Karamchand Gandhi. The program headed by Ms. Anima Sharma and Ms. Richa Sharma.

Students also talk about the contribution of both the leaders in reference of freedom moment and fighting. Students were assigned 05 minutes to present their views on the same and program headed by Ms. Geerija Lawania and Dr Sanjay Gaur.

Students were apprised with consolation prize on the right answers, faculty members are also participated in the activity. The program was hosted by Ms. Arundhati Sharma (5th Semester) and program was headed by Mr. Ashish Ameria and Dr Vijeta kumawat.

To give pace to the "Swachh Bharat Abhiyan" headed in memory of Gandhiji various cleanliness activities and drives were organized in which faculties and students participated enthusiastically. Shri Arpit Agarwal – Director JECRC, Dr VK Chandna – Principal JECRC along with other dignitaries inspired the students to follow Gandhian philosophies of life.

SPIRITUAL RESEARCH CELL

Third Anniversary of Spiritual Research Cell was celebrated in Jecrc Foundation.A session "Step up your life" was also conducted by Brother Charlie Hogg(National Coordinator, Brahma Kumaris Australia) at Spiritual Research Cell, JECRC, Jaipur. Around forty intellectuals attended the event along with delegates from Germany and Argentina. After having a visit of Spiritual Cell, he told, " I have visited more than hundred countries of the world but never seen such a wonderful meditation centre in any educational institute.
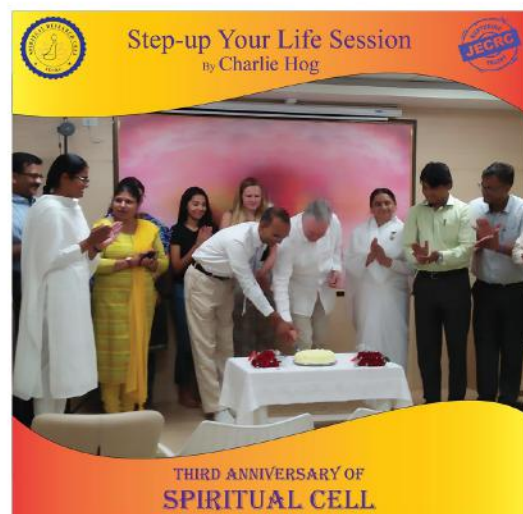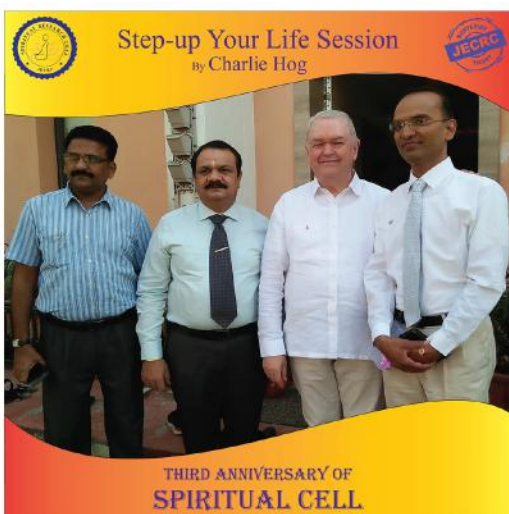
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