"Director's Message"

I am happy to release the JECRC Civil department newsletter for the quarter January –April 2017-18. It gives me immense pride in sharing that the JECRC Jaipur campus was, like always, abuzz with plethora of academic, training and outreach activities. These activities are not only directed at multidimensional development of the staff and students of JECRC Jaipur, but also contribute to the society at large. I am hopeful that JECRC family will keep up the tradition and will continue to make great strides in betterment of all stakeholders.

Keeping up with the proud tradition of JECRC, the faculty, staff and students organized multiple events during the quarter for the benefit of students, faculty members and practitioners. I am gladto announce that such activities are not limited to the JECRC campus but also spans out of the campus for development of the society at large.

I would like to conclude in the words of Nelson Mandela that 'education is the most powerful weapon for changing the world' and we at JECRC Jaipur are committed to bring this Change through quality education

"Work hard in silence, let your success be your noise.""



Vol 01, issue 02

Jan - April 2018

Civil Engineering

Department

JECRC Foundation

Mr.ArpitAgarwal

JECRC Foundation JECRC Foundation JECRC JECRC JECRC JECRC JECRC JECRC JECRC JECRC JECRC

Pro.(Dr.) V. K. Chandna
Principal, JECRC Foundation

"Principal Message"

I am happy to lead JECRC Jaipur in its journey towards excellence in academic achievements, innovations and creativity. In this quarter JECRC Civil Department newsletter bagged a national level technical event Renaissance organized by JECRC by every year. The abuzz of training programmes.workshops, conferences, and seminars during the quarter included a wide ranging and diverse areas like construction technology environmental sustainability road construction technology, renewable energy sources. JECRC attracted talented speakers in the form of guest lectures and invited talks being organized by various departments. The students added flavour to their technical skills by organizing, attending, winning and participating in a number of co-curricular and cultural activities through various societies and clubs of Creative Arts and Cultural Society. These encompassed Model UN, music, dance, drama, photography, fine arts, sports, cleanliness drive, JECRC TEDX and literary competitions.

No knowledge is said to be complete if it lacks service towards nation, society and humanity. it is rightly said by great Albert Einstein, *Only a life lived in the service of others is worth living*.

"If you believe in yourself anything is possible."

Vision of the institute

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.

Mission of the institute

- 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, the 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 may emerge.

"Hod'sMessage"

Civil engineering being one of the core and most fundamental engineering branches is fully dedicated towards the same teaching and learning philosophy of the Foundation. In the modern world of construction where we witness every day as a day of a new construction method, material and skill, it is very much important to forward the same to the students by means of latest teaching aids and by providing an equal and proper learning platform. Hence with a team of dozen of highly qualified and experienced faculty members we offer the most enjoyable and effective learning to all the students.

"Push yourself because, no one else is going to do it for you."



Mr.KamleshKumarchoudhary

Department of Civil Engineering

Jaipur engineering college& research centre, Jaipur was established in 2000 and the Civil Engineering Department is part of the institute. The Department has grown tremendously over the years and is now recognized as one of themajor engineering departments in the country. The department has developed strong links with the building and construction industry and academic and research in the country. The Department of Civil Engineering with its multifaceted faculty continues to maintain and cultivate its strong links with the infrastructural industry and academic in the country.

JECRC HACKTHON 1.0

Recently, JECRC Foundation organized JECRC HACKATHON 1.0 on 10-11 January 2018. It was organized in JECRC CAMPUS. The event was inaugurated by Professor N.P.Kaushik(Vice Chancellor, RTU) and Professor Dileep N. Malkhede(Adviser, AICTE). Forsk Technologies and Engineers Academy were the main sponsors for the event.



It was a coding competition to solve the real time technical problems. It was a 24 hour long team oriented event. The prizes of the Hackathon were worth Rs. 5 lakhs. The environment in the campus was filled with joy and the enthusiasm of the participants. There was mentor scrutiny of two levels for the participants. Total 768 students participated in the event. Around 300 teams registered and 152 teams were finally selected after going through 2 levels of mentor scrutiny.



There were 12 judges and 123 mentors present in the event. The esteemed panel of judges included 6 persons owning start- ups and the rest 6 were on reputed positions in various software fields. The idea of JECRC HACKATHON 1.0 came into action 3 months before the event. The event was a big success. The event ended with the Valedictory session which included the series of experiences shared by the esteemed guests for the event. **Proper Planning, Rigorous Mentoring, Hard Work, Team Work and Successful Execution finally made this dream come true.**

Vision of the civil Department

To become a role model in the field of Civil Engineering for the sustainable development of the society

Missionof civil Department

- To provide outcome base education.
- To create a learning environment conducive for achieving academic excellence.
 - To prepare civil engineers for the society with high ethical values.

Industrial visit of Civil Department

SEWAGE TREATMENT PLANT VISIT

Recently in the month of February, the Civil Engineering Department of JECRC Foundation organized an industrial visit for the students of sixth semester to SEWAGE TREATMENT PLANT – DELAWAS, PRATAP NAGAR, JAIPUR. To be precise the visit took place on 2 February 2018. Around 58 students of sixth semester visited the plant. The students were accompanied byMrs. Monika Sharma who is working as Associate Professor in the department of Civil Engineering.

The purpose of the visit was to familiarize the students with the procedure of municipal waste water treatment and reuse. STP Delawas has treatment capacity of 62.5 MLD and was established with an objective to follow the wastewater disposal standard set by RPCB/CPCB. The STP is in operation since beginning on its full capacity. The visit included presentations by project engineers, which explain all the details and benefits of project.

On all sites the students saw how the waste sludges are collected, processed and disposed of. Through the visit, students got an in depth knowledge of the various components of the treatment plant. They also became familiar with the working principle and functions of various units of treatment plant such as screens, grit chamber, primary clarifier, aeration tank, secondary clarifier, sludge digester, etc. The visit was quite helpful for the students to get the practical knowledge regarding the functioning and process of municipal waste water treatment plant.



AN EDUCATIONAL VISIT TO "JANTAR MANTAR"

An educational visit to JantarMantar was organised by our college on 26 February 2018 as part of the activities organised by our college. The study of these monuments includes all their aspects, namely- historical, scientific and mathematical. As a part of the scientific aspect of the monuments and observatories, 120 students of civil branch went on this trip. The details of the historical monument JantarMantar, which is also an important part of our country's scientific heritage, were explained to the students by the guide.



JantarMantar is located near City Palace and HawaMahal of Jaipur. The observatory is a collection of 19 geometric devices for measuring time and space for astronomy. It is also used for observing the orbits around the Sun.

At JantarMantar, students were made aware of both the historical aspects and the scientific importance of the monument as a tool for the accurate measurement of time and astronomical phenomena, by careful observation of the day and night sky as well as constellations and positions of various celestial bodies in the past. Its name is derived from Yantra or instrument and Mantar or formula, or in this context "calculation". Therefore JantarMantar means literally 'calculation instrument. This observatory has religious significance since ancient Indian astronomers were also Jvotisa masters.

It consists of various architectural astronomical instruments. The site is one of five built by Maharaja Jai Singh II of Jaipur, from 1724 onwards, as he was given by Mughal emperor Muhammad Shah the task of revising the calendar and astronomical tables. The primary purpose of the observatory was to compile astronomical tables and to predict the times and movements of the sun, moon and planets. The students observed all the four Yantras namely – Ram, Jaiprakash, Samrat and Mishra. The distinctive instruments in the observatory are:SamratYantra: The SamratYantra, or Supreme Instrument is a giant triangle that is fundamentally an equal hour sundial. On either side of the triangle is a quadrant graduations indicating hours, minutes, seconds.JayaprakashYantra: The Jayaprakash consists of hollowedhemispheres with markings on their concave surfaces. Crosswires were stretched between points on their rim. From inside the Ram, an observer could align the position of a star with various markings or even a window's edge.Ram Yantra: It can measure the altitude of sun and stars. Mishra Yantra:



J-Techtrix- Redefine the possible

With an endeavor to promote scientific attitude among the fanatic young minds, this project exhibition focuses on encouraging the innovations within them. The key objective is to bring out the hidden talents and inculcate technical knowledge in students.



By forming a group of 4, students will be allowed to showcase their Scientific fervor in many ways and the best ones are going to win exciting prizes.

The event was organized on 17th march 2018 at JECRC campus.



The project which shows very different ideas and thinking are 1) India Gate RotatorIntersection) Centrifuge without Electricity3) Pontoon Bridge 4) hot mix design. From civil department total 25 teams participated. The students very excited about project theme and their execution. This type of platform shows working knowledge of students with different ideas

SMART INDIA HACKATHON

Our Hon'ble Prime Minister, ShriNarendraModi, envisages a Digital India to bridge the digital divide in our country and further promote digital literacy in order to make development a comprehensive mass movement and put governance within everyone's reach in India. In order to work towards our PM's vision, MHRD, All India Council for Technical Education (AICTE), Inter Institutional Inclusive Innovation Centre (i4C), and Persistent Systems organized Smart India Hackathon 2017, a unique initiative to identify new and disruptive digital technology innovations for solving the challenges faced by our country. The initiative was a huge success. In line with this, to reiterate the efforts towards our PM's vision, MHRD, AICTE, i4C, and Persistent Systems has conducted the second edition of this initiative i.e. Smart India Hackathon 2018, successfully.



Smart India Hackathon 2018 had 2 sub-editions - Software as well as Hardware:

- Software Edition was a 36 hour software product development competition, similar in concept to Smart India Hackathon 2017
- The new Hardware Edition was a hackathon where teams worked for 5 straight days and build their hardware solutions. This competition was limited to only 5 nodal centers with 20-25 teams each



For the event around 8000 students attempted to give solutions for the listed 340software problems.



The Grand finale was held at 28 different nodal centres across the country. Jaipur Engineering College and Research Centre, Jaipur was one amongst these centres in Rajasthan.



The grand finale of Smart India Hackathon 2018 held at JECRC, Jaipur on 30th and 31st March, 2018 focussed on the problem statements of the Ministry of Information and Broadcasting. The event started with inaugural ceremony on 30th March, 2018 with the welcome address of the Hon'ble Prime Minister through video conferencing. After that 52 shortlisted teams went on with the 24 hour event of ethical hacking working on solutions for the 16 problem statements defined by the ministry of Information and Broadcasting. The event concluded successfully with the valedictory ceremony bestowed by the Hon'ble Minister of State (Independent) for youth affairs and sports ShriRajyavardhan SinghRathore.

Zarurat - A social initiative

Zaruart is a social initiative taken by the students of JECRC Foundation in which they provide free of cost education to the underprivileged kids of nearby slum areas on all working days after college hours. Zarurat was established in 2011 and since then, it has seen great heights and accomplished many feats.

Other than studies, the group also organises several extra- curricular activities for the kids. Here are a few events that we organized in the past year by Team Zarurat:-

- **1. Teachers' Day-** To pay a little token of appreciation towards its teachers, Zarurat celebrated the Teachers' Day on September 5
- Joy of Giving Week- Now known as Dan Utsav, this is a week- long celebration in which we perform 7 acts of giving in 7 days of the week in the month of October



- 3. **Children's Day-** To make their day special, Zarurat organized several activities for the kids on November, the 14th.
- 4. **Holi** Every year, Zarurat celebrates the festival of colours together as all kids and team members play with colours and celebrate Holi a few days prior to the actual festival.



 Celebrating Innocence- The annual flagship event of Zarurat is a daylong celebration in which several NGOs and kids of Zarurat go through several activities. This year the event was on 24th March.



Farewell- To appreciate the efforts of the team members who served the team for 4 years, the team bade an official farewell for the final year members on April 27th.

Founders' Day- Often said as the Birthday of Zarurat, the team celebrates its Founders' Day on the day of its inception, i.e 20th November, every year.

Zarurat also takes its children to visits and tours to several places. In the past one year, kids have been taken to the Birla Planetarium, the National Science Conference by ISRO at the JECRC University.



The last year has been particularly special as the team registered its name in the Limca Book of Records for making the largest display of Origami flowers. The record was created in two phases. On 26 February, the team made 24626 paper flowers in a day and on 7th March, on the day of 'Celebrating Innocence', they were assembled. As the official confirmation happened a year later, a certificate unveiling ceremony was also organized.

Renaissance-

Renaissance, the annual techno-cultural festival of JECRC College is one of the largest in India held in March every year, it attracts a massive crowd of students fro a lot of colleges nationwide. It creates a mesmerizing experience for all the attendees, simultaneously providing unique opportunities to the students for showing their talents in front of extremely large audiences and top-notch judges.

Continuing the legacy, Ren'18 made the four days of the lives of the attendees the most happier and delightful ones.

With the motive of encouraging technology and scientific thinking, JECRC conducts various technical events in its annual fest. The technology enthusiasts showcasted their intelligence and inventiveness on a massive platform in the events organised by all the departments of the college.

Last year in Ren'17, we had 43 technical events and this time in Ren'18 with more scientific minds and advanced technologies, we had 50 events.



Civil department organised six technical events in Ren'18 techno fest namely:-Zenith, Manthan, Cad-Darshan, Dexterity, Best out of Waste and Click-O-Mania. Oldest of these were Zenith and Manthan. Zenith was the event regarding structural science of the model made by thermocol and Newspaper which each team prepared. Whereas, Manthan was a Quiz competetion regarding general knowledge and basic civil engineering.



With time the evolution of the quality increased with the increment in member of events as stated before. Cad-Darshan was a competetion on the Auto-Cad software usage regarding objective given. Whereas, Dexterity, just like Zenith, was regarding the structural science of bridges model prepared from ice-cream sticks. It also acquired most member of entries after Manthan in Ren'18. At last, Best out of Waste was one of the most intresting events conducted. As the name suggests, participants were required to make something useful and with a decent outlook from the waste given.



Therefore, Renaissance 18 was conducted with whole lot of effort and gave the establishedname of JECRC a spark as it does annually.



Engineers ... are not superhuman. They make mistakes in their assumptions, in their calculations, in their conclusions. That they make mistakes is forgivable; that they catch them is imperative. Thus it is the essence of modern engineering not only to be able to check one's own work but also to have one's work checked and to be able to check the work of others.

– Henry Petroski-

STUDENTS PLACED IN CIVIL ENGINEERING

S.No.	ROLL NO.	NAME	COMPANY PLACED	PACKAGE LPA	Mode
1	14EJCCE010	ANSHUL KUMAR GUPTA	CAPITAL TRUST	1.80	Outset
2	14EJCCE044	JAIDEEP SAINI	PINNACLE	2.16	Inset
3	14EJCCE050	KHUSHALI RAM DANGI	CAPITAL TRUST	1.80	Outset
4	14EJCCE068	NAVNEET AGARWAL	PINNACLE	2.16	Inset
5	14EJCCE083	RAHUL JOSHI	PINNACLE	2.16	Inset
6	14EJCCE086	RAJAN SAJANI	ACCENTURE	3.5	Inset
7	14EJCCE089	ROHIT BENIWAL	PINNACLE	2.16	Inset
8	14EJCCE094	SAHARSH AGRAWAL	PINNACLE	2.16	Inset
9	14EJCCE097	SAURABH GUPTA	PINNACLE	2.16	Inset
10	14EJCCE104	SUKANYA SHARMA	PINNACLE	2.16	Inset
11	14EJCCE108	SURYANSH TRIVEDI	PINNACLE	2.16	Inset
				· ·	
12	14EJCCE111	TARANG GUPTA	PINNACLE	2.16	Inset
13	14EJCCE113	VAIBHAV KAWADIA	PINNACLE	2.16	Inset
14	14EJCCE301	KALPIT MEENA	PINNACLE	2.16	Inset
15	15EJCCE217	RADHIKA BHARDWAJ	PINNACLE	2.16	Inset
16	15EJCCE221	SHUBHAM JAIN	PINNACLE	2.16	Inset
17	14EJCCE301	KALPIT MEENA	BYJU	9.0	Inset
18	14EJCCE008	ANKIT GUPTA	JUST DIAL	2.53	Outset
19	14EJCCE021	AYUSHMAN SINGH RATNU	JUST DIAL	2.73	Outset
20	14EJCCE037	HANSRAJ TOGARA	JUST DIAL	2.53	Outset
21	14EJCCE042	HONEY KHANDELWAL	JUST DIAL	2.53	Outset
22	14EJCCE048	KAMAL SINGH SAROHA	JUST DIAL	2.73	Outset
23	14EJCCE049	KAPIL PANDEY	JUST DIAL JUST DIAL	2.73	Outset
24 25	14EJCCE070 14EJCCE072	NIKHIL MAHESHWARI NITIN KHANDELWAL	SWORNTECH	2.53 1.8	Outset
26	14EJCCE041	HIMANASHU CHOUDHARY	SKYWAY	1.8	Outset
27	14EJCCE043	ITI JAIN	KOTAK INDIA	3.5+Bonus	Inset
28	14EJCCE122	VISHAL RAMNANI	FACE ACADEMY	2.64	Inset
29	14EJCCE043	ITI JAIN	GURUKRIPA INSTITUTE	4.0	Inset
				3.6 LPA	
30	14EJCCE016	ARYAN SHARMA	SAAJHA CONSTRUCTION		Outset/Inset
31	14EJCCE041	HIMANASHU CHOUDHARY	SAAJHA CONSTRUCTION	3.6 LPA	Outset
32	14EJCCE049	KAPIL PANDEY	SAAJHA CONSTRUCTION	3.6 LPA	Outset
33	14EJCCE051	KIRAN DEEP	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
34	14EJCCE072	NITIN KHANDELWAL	SAAJHA CONSTRUCTION	3.6 LPA	Outset
35	14EJCCE077	PRARABDH SARASWAT	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
36	14EJCCE093	SACHIN MATHUR	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
37	14EJCCE098	SHANIL SHARMA	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
38	14EJCCE109	TAJ MOHAMMAD	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
39	14EJCCE113	VAIBHAV KAWADIA	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
40	14EJCCE119	VIPUL JAIN	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
41	14EJCCE122	VISHAL RAMNANI	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
42	14EJCCE303	POORNA JAIN	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
43	15EJCCE206	DIPESH DEWANI	SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset
43	15EJCCE206 15EJCCE213	MAN MOHAN TIWARI	SAAJHA CONSTRUCTION SAAJHA CONSTRUCTION	3.6 LPA	Outset/Inset Outset/Inset
45	14EJCCE076	PRANAV SAINI	KP INFRACON PVT. LTD.	3.0 LPA	Outset/Inset

You are capable of more than you know. Choose a goal that seems right for you and strive to be the best, however hard the path. Aim high. Behave honorably. Prepare to be alone at times, and to endure failure. Persist! The world needs all you can give.

– E.O. Wilson

GATE SELECTIONS

Roll No.	Name of the Student	GATE Reg. No.	Marks
14EJCCE019	ASHUTOSH JANGID	CE18S83043024	29.34
14EJCCE022	BANNA RAM	CE18S83041133	30.65
14EJCCE025	CHANDAN KUMAR CHANDRAVANSHI	CE18S73042051	31.13
14EJCCE039	HEMANT KUMAR LODHA	CE18S73041863	52.46
14EJCCE043	ITI JAIN	CE18S83041005	27.05
14EJCCE047	JONESH KUMAR BIJARNIYA	CE18S73041845	33.16
14EJCCE055	MADHAV SHARMA	CE18S73041010	29.77
14EJCCE056	MAHESH KUMAR PATEL	CE18S83043459	27.05
14EJCCE062	MOHIT SHARMA	CE18S73043437	46.03
14EJCCE078	PRATEEK CHOURASIA	CE18S73054151	24.69
14EJCCE084	RAJ KUMAR MISHRA	CE18S73042204	34.85
14EJCCE085	RAJ KUMAR SONI	CE18S83041857	28.36
14EJCCE090	ROHIT KHANDELWAL	CE18S83043604	31.96
14EJCCE092	SACHIN JAIN	CE18S73043047	44.00
14EJCCE093	SACHIN MATHUR	CE18S73041123	27.40
14EJCCE097	SAURABH GUPTA	CE18S73043393	29.10
14EJCCE099	SHANKAR SAINI	CE18S73041716	27.40
14EJCCE110	TANU SHARMA	CE18S73043462	46.71
14EJCCE112	TUSHAR AGARWAL	CE18S73042132	56.53
14EJCCE113	VAIBHAV KAWADIA	CE18S83041862	28.69
14EJCCE121	VISHAL GOCHAR	CE18S83041203	26.06
14EJCCE122	VISHAL RAMNANI	CE18S83043462	30.32
14EJCCE126	YASHDEEP BHATNAGAR	CE18S73060126	27.06
14EJCCE300	PRATIK KUMAR MAHTO	CE18S83041714	50.98
14EJCCE301	KALPIT MEENA	CE18S73042419	18.60
14EJCCE302	MANAN BISHNOI	CE18S83045193	43.11
15EJCCE221	SHUBHAM JAIN	CE18S73041889	31.13







Mr. Narendra Sipani Asst. Prof

EDITORIAL TEAM



Mr. Teekam singh Assistant



Mr.
Prateek kr.
Sharma
Asstt. Prof.