CSE BYTES

A CSE NEWSLETTER

JECRC NURTURING TALENT

Aug'18 Edition

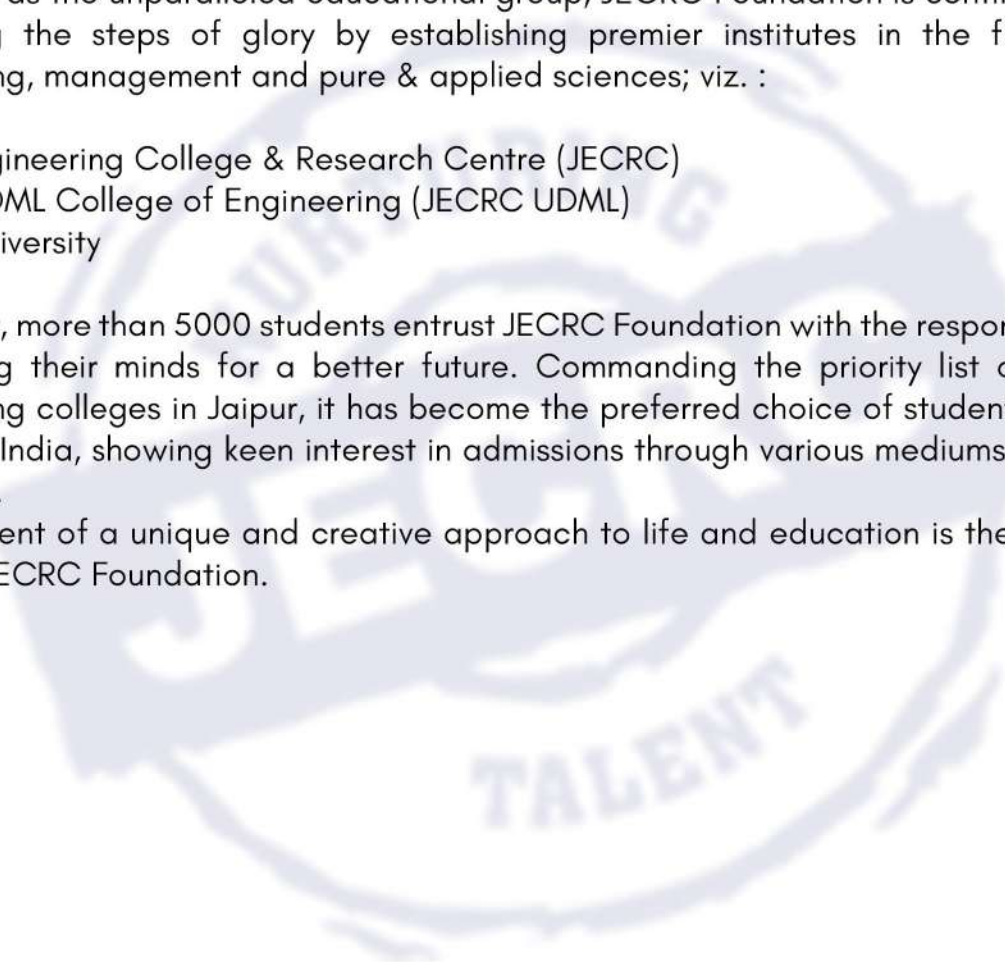**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

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.

CONTENTS

INDEX

Director's Desk

Mr. Arpit Agrawal
Director, JECRC

Education is the one that drives humanity to achieve new and impossible feats every day. Without having a seed of thought sown in one's mind, one cannot reap the fruits of innovation. JECRC Foundation has been serving this purpose of motivating and making students excel at what they want to pursue. We at JECRC aim at making the campus a full-fledged learning experience for the students, so that no skill they have is left unexplored.

As this newsletter is again making its rounds, I gladly bring it to the notice of each member of the college to this tough job the CSE Department is undertaking. Keeping everyone updated with the happenings in the department is a great initiative to connect with one and all. Seeing both students and faculty members put enormous work behind this humongous task, I feel grateful for such a great team.

Becoming the central hub of all intellectual activities and innovative discussions for young minds, JECRC welcomes all the future innovators and creators to be a part of it. I wish good luck to students for all they aspire to become!

Principal's Desk

Prof.(Dr.) V.K. Chandna
Principal, JECRC

Engineers are the wealth of the nation and their excellence in all the disciplines is the present requirement of the country, for sustained economic expansion to compete globally. It gives me immense pleasure to share that JECRC is contributing to the growth of the nation by providing outcome based education to their students and nurturing them to compete at a global level.

The CSE Department and technical staff members are committed to furnish professional as well as research driven project based learning to the students, and accordingly the teaching-learning process is tuned so as to fulfill their career growth in the prevalent emerging technology. Different programs have resulted in overall growth and penetration of students in varied dimensions, be it research, innovation, entrepreneurs, educationist or even as sports person and bureaucrats etc.

With the support of qualified, dedicated and hardworking faculty of the CSE Department, the institute has achieved enviable ranking in a short span. I have no doubts that with this pace, the institute will unremittingly march ahead of other eminent institutes at the national level.

HoD's Desk

Dr. Bhavna Sharma
Head of Department CSE,
JECRC

Being a part of a reputed organization like JECRC gives me immense pride, where students as well as faculty members are dedicated towards growth and a bright future. The faculty members are measuring the progress and competencies of students as they go through a course in each semester in which they are being assessed against pre-defined targets. Students, under the guidance of experienced faculty members, are giving their utmost to reach the zenith of success.

The CSE department is showing remarkable growth in terms of education as well as futuristic projects. Our students have represented the college at various platforms and increased the glory of our college. Students actively participate in Hackathons and TedX- held at different levels and other co curricular activities. There are budding entrepreneurs, researchers, programmers and developers that without a doubt, our institution will reach the heights of triumph in the upcoming few years.

Vision & Mission of JECRC

Vision

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

• 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 of CSE

Vision

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

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 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.

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.

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.

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.

5. To prepare students to excel in Industry and Higher education by Educating Students along with High moral values and Knowledge.

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.

72ⁿᵈ Independence Day Celebration

Commitment and pride towards one's country is true patriotism. Independence Day is a mark of our freedom from British rule and valor of our freedom fighters and army men. On 15 th August 2018, JECRC celebrated the 72 th Independence Day. Students and faculty members took part in various activities of the event. Patriotic songs were presented by 1 st year students and II year CSE student Akshat Jaiman. Enigma dance group and Khalas Bhangra crew presented energetic dance performances. Words of wisdom and patriotism were shared among all. The tricolor was unfurled and National Anthem was sung in unison which shows our unity and strength. While concluding the event, sweets were distributed among all students and faculty members as a mark of happiness.

Placement Cell

TCS Codevita

The placement cell set the road for placing the students of Batch 2015–2019 by beginning with the battle for CodeVita Season 7. The placement cell helped the students to prepare for CodeVita through mock drills and mock interviews. MockVita, a practice round for CodeVita registered students was conducted by TCS on July 6th and 7th, 2018 where students participated and gauge the coding strength. MockVita includes previous seasons CodeVita Questions to practice for CodeVita Contest. Such type of practice sessions build the students more productive such that 113 students (102 from JECRC + 11 from JU) shortlisted for CodeVita interviews. Out of 102, 65 students from CSE Department got a chance to start their career in TCS. Further mock interviews were conducted for the shortlisted students to brush their skills for CodeVita interviews on Aug. 23rd, 2018.

Recruitments Of
Social Clubs

Aashayein

Change your life today. Don't gamble on the future, act now, without delay.

Aashayein – The Life Saviours adores the effort of such people, who stepped out of their comfort zones and came forward for the recruitment of session 2018 for 1st and 2nd year students on 20th and 21st August, 2018 at C block, JECRC Campus.

The event was exalted with the presence of Mr. Kuldeep Sharma, Faculty Coordinator, Aashayein-The Life Saviours and Prof. (Dr.) Vijay Singh Rathore and Mr. Pradeep Sharma from CSE Department, who guided the students with their soulful words. Around 160 young enthusiasts took a step forward and participated in the recruitments under the varied verticals of their interests to be a part of the benign purpose.

Suhasini

"Suhasini – An initiative to save the smile of girl child" is a social initiative of JECRC Foundation that works for the motto of "Beti Bachao Beti Padhao". Spreading awareness for the cause in 8 villages and being connected to over 10 government schools, Team Suhasini is leaving its mark in the hearts of people.

Suhasini's extensive level social work attracted many incoming students of the batch of 2018-22 and hence a recruitment drive was conducted to include these fresh enthusiasts in the team. Conducted on 18th and 20th August, the recruitments witnessed a participation of over 80 freshmen students. They had to go through various levels of scrutiny which included a written round, a group discussion and personal interview.

35 students were selected to be a part of Team Suhasini. The recruitment process was successful and the zeal of newcomers infused a new spirit in the working members of the team as well.

ACHIEVEMENT

AWARD OF APPRECIATION

Dr. Sanjay Gaur, Associate Professor, Department of Computer Science and Engineering attended International Conference on Information Communication Technology for Sustainable Development on August 30 th -31 st , 2018 held at Panaji Goa. In the conference he acts as Special Session chair subjected on ICT for Digital Management. He also received Award of Appreciation by Senior Editor Springer Shri Aninda Bose for conducting special session and significant contribution in the conference.

AWARD OF APPRECIATION

Prof.(Dr.) Vijay Singh Rathore was awarded the "Award of Appreciation" at New York, USA by AICTE. He was one of the members in the "Indian Higher Education Knowledge Delegation to United States of America" during Aug 6th-12th, 2018, which was led by AICTE (All India Council for Technical Education, Govt. of India) mounted by GR Foundation (Ahmedabad), supported by U.S. Department of Commerce, and U.S. Department of Education, Govt. of America. He was awarded for his sincere contribution towards the success of the Delegation Visits at US Universities, and representing Indian Education Values, Entrepreneurship, Start Up oriented approach focusing Job Creators rather than Job Seekers. He also played a Key Role there in forming the mutually beneficial relations between Indian and U.S.A. Universities in terms of the Collaboration on various aspects such as Exchange Programs (For Students/Faculties), Joint Conferences, Research & Development in joint, Twining Degree Programs specialty in the field of Yoga, Meditation, Entrepreneurship, Start Ups etc.

The delegation was composed of 33 eminent Academicians, Chairpersons, and Directors of various Educational Organization across the nation (India) along with the AICTE Officials. AICTE Advisors Dr Dileep Malkhede, and Dr Rajiv Kumar led the delegation, and the Directors of GR Foundation Mr Amit Joshi & Mr Mihir Chauhan managed delegation's schedule and activities.

Prof.(Dr) Vijay Singh Rathore (Professor, JECRC, Jaipur) was selected as a member of the delegation, represented Rajasthan as the only participant from North India. The delegation's main objectives was to explore and understand the best practices in the U.S. Education System, to spread Indian Education's best practices in terms of Indian legacy, cultural/social values, yoga, research & innovations, entrepreneurial skill development, Start ups, etc. The delegation also discussed various aspects of collaborations of Indian Universities with the U.S. Universities such as New York University (NYU), Massachusetts Institute of Technology (MIT), University of Connecticut (UCONN), University of Pennsylvania (Penn), and other universities of eminence in USA. Prof. Rathore represented JECRC Foundation's academic, research, and social practices as One of Its Kind University in India. The delegation also visited to the U.S. Deartment of Education, U.S. Chamber of Commerce, and Indian Embassy at Washigton D.C. to explore various schemes and practices in U.S.A. for Indian students and faculty members.

Women Connect Cell

Expert talk on Development v/s Crime against women

On 29th August 2018, Women Connect Cell of JECRC organised an expert talk on Development v/s Crime against women in the auditorium. The talk was open to all the female faculties and students of the college. **Dr Kirti Sharma**, O.S.D. Higher Education, Government Secretariat, Jaipur and **Mrs Pushpa Satyani**, Joint Secretary to Govt. Technical Education Department, Rajasthan, Jaipur were invited. The program begins with the lamp lightening and floral welcome followed by the inauguration of the Women Connect Cell. The chairperson of Women Connect Cell **Prof. (Dr.) Seema Pandey** described planning and future activities of the cell to the audience. **Prof. (Dr.) V.K. Chandna**, Principal, JECRC addressed the audience and motivated girls for development and empowerment. Dr. Kirti Sharma talked about the upliftment of women and discussed the issues and barriers to the upliftment. **Mrs. Pushpa Satyani** discussed the different mindsets of people and how to bring out the change. She also described the different ways of handling the situation in a life by various instances. The talk show was concluded by a vote of thanks by Dr. Rekha Mithal and the guests were presented with token of remembrance.

Behind CSE BYTES

Dr. Bhavna Sharma
Advisor

Ms. Manju Vyas
Technical Advisor

Ms. Priyanka Mitra
Editor in Chief

Ms. Girija Lavania
Managing Editor

Chirayu Bansal
Designer

Jayesh Joshi
Designer

Malvika Khushwah
Content Writer

Akshita Bharadwaj
Content Writer