



JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Approved by AICTE & Affiliated to RTU, Kota



STRATEGIC PLANNING 2018-2023





Vice -Chairperson Message

Welcome to JECRC Foundation. At JECRC Foundation we are committed to ensure holistic development of our engineers who are going to be at the leadership positions in the coming years. We inspire our engineers to build their own world and a life based on power of knowledge coupled with strength of traditional wisdom unleashing the countless opportunities to become leaders pushing the frontiers of Science and Technology to embark on an enduring development journey. The learning at JECRC Foundation ignites an irrepressible will to win backed by contemporary innovative ideas and global outlook.

Our aim is to train our engineers to be project leaders, communicators, problem solvers and ethical citizens of a global community. We offer our students a rich educational experience, an experience that marries intellectual rigor and cross-disciplinary breadth in an intimate, student-centered environment as part of our commitment to engineering education innovation and interdisciplinary research. Research is an integral part of this experience. Our close collaborations with Industry leaders like TCS, Accenture, Intel etc. Hands-on research and project-based activities provide our students with extensive laboratory and design experience, as well as close interaction with exceptional faculty at the forefront of their fields.

Through dynamic and innovative curriculum, a teamwork approach and leadership-building experiences, JECRC students gain vital communication and critical-thinking skills. Through Zarurat program, many of our students participate in community outreach programs.

Our talented and diverse faculty, who are among the most honored nationwide and have memberships and fellowships in various professional bodies and societies, as mentors constantly shape up the students to realize their true potential and nurture them consistently to realize their unexplored abilities and hidden talents.

Here you will discover not only engineering excellence, but also a campus alive with round-the-clock, Cultural, artistic, and intellectual activity. I can assure you that being with JECRC Foundation you will find yourself better positioned than ever to address the grand challenges of the coming century.



Mr. Arpit Agarwal

Principal's Message

Jaipur Engineering Institute and Research Centre (JECRC), Jaipur is recognized as one of the best technical institute in the Rajasthan and is adopting the process of change that demands quality outcome-based education. The vision of the institute is to become an institute of Excellence in imparting outcome based education, providing facilities to the students to get placement in reputed companies, providing platform to the students for overall self-development that includes ethics, moral values etc. and develop research aptitude through project based learning.



In the process of implementing Outcome Based Education (OBE), the faculty members are measuring the progress and competencies of the student as they go through a course in each Semester and are being assessed against pre-defined targets.

Engineers are the wealth of the nation and excellence in all disciplines is the present requirement of the country for its sustained economic growth to compete globally. Nearly seventeen years ago, the founders of JECRC embarked on a journey to educate and nurture the finest engineers. It gives me immense pleasure to share that JECRC is contributing to the growth of nation by providing outcome based education to their students and nurturing them to compete at the global level.

The faculty and technical staff members are committed to cater 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, educationists or even as sports person and bureaucrats etc.

With the support of qualified, dedicated and hardworking faculty, the institute has achieved enviable ranking in a short span and I have no doubts that with this pace, the institute will relentlessly march ahead of other eminent institutes at the national level. Let's give our best and make this institute a modern temple of outcome based learning through our diligence, devotion and dedication.

All the credit goes to outstanding reputation and dedication of the Institute for all these years, under the able guidance of visionary Shri Amit Agrawal and Shri Arpit Agrawal, Vice Chairman of the JECRC Foundation.

Dr. V. K. Chandna



accenture	Capgemini	Chegg	wipro	
447	277	183	154	101
Infosys	Alibaba.com	paytm	Pinnacle	EY
61	58	45	37	15
Microsoft	TATA POWER	MFC	BYJU'S	Deloitte
Mindtree	IBM	Birlasoft	Instamart	vodafone

Ericsson	Intime Tech	SimplyForce	TechAhead
Info Object	Pinnacle	NIIT Tech	Bridgestone
Best Peers	Bhilwara Infotech	HSBC	HLS Asia
TIPL	Skyway Info solutions	Info-Objects	Ongraph
JPPL	Genus Design	Thrillophilia	Human Horizon
Apprico Technology	Scope Telecom Pvt. Ltd.	Pal IT services	Vaahika
Appeal Group	Interview Air	ENC Technology	Capital Trust
Aquatronic Systems	Dev Technosys	Rebuscode	JRBS
Cause Code	Sworntech Pvt. Ltd.	ConfigAware	Skyway Infosolutions
Info-Objects	Pin Click	GR Infra	Horizon

Dignitaries @ JECRC







Life @ JECRC





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Strategic Planning

2018-2023

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

M1. Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.

M2. Identify, based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions.

M3. Offer opportunities for interaction between academia and industry.

M4. Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

The education sector is facing a transformation phase to cater the need of the society at global level.

There are many challenges that institutions are facing today:

- Curriculum delivery,
- Modernization of the syllabus,
- Providing state of the art facilities,
- Interaction with the industry for collaboration projects,
- Generating funds for providing facilities that matches with the need of today and are not included in the syllabus,
- Motivation to the students,
- Overall development of students,
- Providing platform curricular and co-curricular activities,
- Placement opportunities including startup and innovation,
- Motivation to faculty members and staff,
- Training to faculty members and staff,
- Social initiatives,
- Developing organizational and participative skills etc., are some of the prime areas of focus.

Keeping in view the above-mentioned challenges in education sector, now there is a need of strategic planning for each and individual sector for their growth. The planning to meet challenges to bridge the gap and focuses on vision for future to meet global needs and requirements.

I. Curriculum Delivery:

Jaipur Engineering Institute and Research Center (JECRC) is an affiliated institution from Rajasthan Technical University (RTU) and it receives curriculum to be taught to the students as provided by the University. Looking into the global issues and diversity in Indian geographical needs and requirements, the curriculum provided by the university needs a focus on various issues viz.:

- 1) Technical knowledge with respect to core discipline.
- 2) Development of knowledge to cater the need of economy, society, country as a whole to contribute the development of the nation.
- 3) Acceptance of stakeholders (students) at global level.
- 4) Inculcating human values among the students.
- 5) Use of cutting-edge technologies etc..

Focus of curriculum on the above mention issues needs well planned documents before it is delivered to the students and other stakeholders. Based on the discussions with the stakeholders and feedback received from the stakeholders, a planning for the curriculum delivery is done based on following:

- 1) Curriculum provided by university
- 2) Content beyond syllabus
- 3) Add-on/Certificate courses
- 4) Cross-cutting issues related to professional ethics, human values, environment and sustainability.
- 5) Experiential learning through project work, field work, internship etc..
- 6) Extension and outreach program

JECRC is an affiliated institute from Rajasthan Technical university (RTU), Kota, and the curriculum is provided by the university. Affiliating university provides the academic calendar at the beginning of the session that includes important dates related to the internal and external examinations. Based on the academic calendar of the university the departments plan their own academic calendar that includes curricular and curricular activities. After the approval of the calendar from IQAC, the same is followed by the department and timely actions are taken. Departments also take feedback on various issues for the improvement.

During the delivery of the curriculum focus is to provide special attention to weak learners and motivate fast learners.

Courses are defined by their course outcomes and based on the target of achievement CO's are evaluated for each and every individual student to know the status of their learning levels. The other activities viz. co-curricular activities, participating and experiential learning, placement and feedbacks mapped with the program outcomes (PO's) and program specific outcomes (PSO's) are calculated and compared with the pre-defined set values to find out the gaps. Steps are taken to bridge the gaps.

Below are the PO's for consideration:

- 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, review 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.







Result as key outcomes of effective curriculum delivery:

Mechanical Engineering

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	113	92	81.42	66.21
2	2016	150	130	86.67	65.29
3	2017	148	106	71.62	66.9
4	2018	147	118	80.27	65.76

Computer Science and Engineering

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	156	135	86.54	68.35
2	2016	153	133	86.93	66.54
3	2017	202	177	87.62	69.24
4	2018	218	192	88.07	70.45

Electronics and Communication Engineering

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	223	197	88.34	68.5
2	2016	268	214	79.85	68.13
3	2017	223	168	75.34	69.23
4	2018	216	162	75.00	70.38

Information Technology

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	100	75	75.00	65.77
2	2016	76	64	84.21	66.65
3	2017	79	68	86.08	70.43
4	2018	93	76	81.72	69.05

II. Placement Planning

Electrical Engineering

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	73	64	87.67	65.23
2	2016	75	64	85.33	68.31
3	2017	147	118	80.27	68.86
4	2018	146	120	82.19	67.86

Civil Engineering

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	76	60	78.95	68.41
2	2016	145	117	80.69	66.11
3	2017	145	111	76.55	67.19
4	2018	144	118	81.94	68.2

Mechanical Engineering-II SHIFT

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	NA	NA	NA	NA
2	2016	64	46	71.88	63.89
3	2017	60	49	81.67	69.75
4	2018	63	55	87.30	66.14

Computer Science and Engineering-II SHIFT

S. No.	Year	Total students appeared in Final Examination	No of pass students	% pass out without back	Average Marks Percentage
1	2015	NA	NA	NA	NA
2	2016	NA	NA	NA	NA
3	2017	58	49	84.48	70.59
4	2018	62	54	87.10	69.11

Vision

To become an Institution renowned for placements of its students and work towards providing them the employability skills desired by top global Companies. To place all the students desiring placements in globally reputed companies.

Mission

- Foremost aim is to provide cent percent placement every year.
- Focus on inviting best companies and aspiration recruiters to the campus. Motivate students to make their career in right direction by providing them roadmap.
- Training and Placement Cell arranges and coordinates various training programmes that aim at enriching the students with special skills to meet the industry expectations in career building and in turn bring laurels to the parent institution.
- As per the industrial scenario we identify, the regional and global needs and work upon the areas of improvements and provide platform for the students to gain knowledge so they can excel at their job.
- Find opportunities for interaction between academia and industry.

Best practices adopted by the Placement department in last 5 years:

- **Strengthening the Institute Corporate Relations:** We have built a dedicated team of training & placement associates who continuously develop corporate relations under the guidance of Director & Deputy Director – Corporate Relations. We continuously approach companies by sharing our Corporate Approach Invitation and Placement PPT (attached) also through calls and LinkedIn and other social resources.
- **Industry Visit:** We aim at improving the quality of placement in term of job opportunities with companies of repute that visits campus. In order to provide quality placement to our students, every year we plan our industry visit to meet the potential recruiters to maintain and form corporate relationship. Through these visits we aid in enhancing the corporate association by interaction with the concerned Industry officials. JECRC Alumni helps us to associate with giant MNCs inIT & other sectors.

- Unique Initiative taken for enhancing Placement of Below Par Students:** JECRC Management has taken a unique initiative of starting a vertical exclusively for placement of students with less than 60% marks and many backlogs. This group works for providing training, motivation and provides opportunities to students who earlier could not even dream of a Campus Placement.
- Competitions Based Hiring:** Many reputed organizations have started hiring through competitions. We inform and encourage our students to take part in these competitions. TCS, Wipro in particular hire in large numbers and hence we provide specific training to students for their competitions and a good number of students are getting selected.
- Campus Ambassador Program:** A Campus Ambassador program is the means for a company to maintain its brand presence among Institute students. In campus ambassador program, companies requests the placement department to nominate students as the company's ambassadors in Institute, and these campus ambassadors maintain useful liaison between the company and students in the campus.
- Students Placement Coordinators:** Every year we select students from each branch for this profile so that they can understand of the corporate relationship and the placement activities, working along with the placement team. SPCs also act as an information link between placement department and their fellow students.
- Campus Recruitment Training (CRT Program):** The training cell helps the students to improve their employability skills in order to face the campus interview confidently and we aim at moulding the students so as to meet the industry expectations in career building. The Training cell arranges aptitude, communication, soft skills and technical training for the students. Mock tests are provided for various companies and based on results additional preparation is done. Mock technical, managerial and HR Interviews are held along with practice in Group discussions. Mock drills are also conducted to provide students with a real time simulation of an actual campus drive. The students are assigned experienced faculty Mentors to guide them throughout the year and keep trace of their performance. Training programs are conducted for faculty mentors to equip them with mentoring skills.

- Learning Smart Technologies to become Industry Ready:** The respective departments of our Institute facilitate intensive training to our students on emerging technologies like Robotic Process Automation, AWS cloud , IOT, Machine learning, Embedded systems, Salesforce, Redhat Linux, AutoCAD, ANSIS, etc.. in addition to their regular curriculum to prepare them for the Industry.
- Development of Problem solving skills:** We encourage our students to participate in Hackathon, a problem-solving competition and motivate them to participate in Smart India Hackathon, an event organized by MHRD every year. JECRC Foundation was centre for two Ministries for Smart India Hackathon.
- Dedicated Alumni Cell:** The Institute has a dedicated Alumni Cell reporting directly to the Institute Management.
- Entrepreneurship Development and Incubation cell:** The Institute believes in developing entrepreneurship in its student and has established an Incubation cell to promote start ups. It is given high priority and is directly monitored by head of Institution.

Current Placements Status after adopting best practices

JECRC has set an exemplary record in engineering placements with its students being chosen by industry leaders, year after year. Its 'Stand-alone Recruitment Drives', where leading business houses participate to test the mettle of the students.

- JECRC has achieved a new height in its excellent track record of placements by getting close to 1104 offers this year. Consistent performance of its students in drives by prestigious Companies has led to it being named among the "Engineering Institutes with best Placements in India" by many prestigious publications. JECRC Foundation receives top-notch companies every year exclusively for recruiting its students.
- The top-notch companies of core sector i.e. Tata Power, JK Cement, CESC India "a Sanjeev goenka group", Pinnacle, KEI industries, GR Infra, HG Infra, Aashiana housing, Genius power, Mahindra are our regular recruiters.
- Increasing in Average Package:** Every year we could see exponential growth in the average package of the students, this year our average package is 4LPA.

- We have trained our students with rigorous training of 45 days/ 200 hours in which 100+ Faculties were involved to make students ready for the Placement session. In which they have been trained on Aptitude, Logical & Quant, Soft skills, Communication skills, Group discussion & Extempore, CBTs & Mock Drill, Subject wise Technical Training & Coding Language.
- More than 40 students offered the package of Rs. 6-12 Lakh and highest package of this year was CTC 40 LPA by Microsoft.
- Developed Industry Institute Academia-JECRC has strong industry alliances with leading companies to facilitate best learning opportunities for its faculty and students by exposing them to newer technologies and engineering methodologies. For this T&P Cell came up with Keynote sessions & InnoLogue Talk series. Specialized training courses from reputed Companies like Microsoft, TCS, Ericsson, Accenture, Pinnacle Infotech, Infosys, Salesforce, Red Hat Linux, Forsk Technologies, CADD Software, Wipro etc.

In the wake of the recent lockdown situation, With InnoLogue- An Innovation Talk Series" and "Keynote Sessions", Placement cell aspire to connect with the prominent luminaries, networks, communities, corporate leaders, technocrats, and innovators, interacting with whom, students will be able to inculcate a sense of innovating something in everything they do and enrich student's industry acumen & to drive innovative solutions for post-pandemic scenarios. People who have spent their lives in innovating grassroots solutions would definitely have great insights to share. T&P cell is certain that such sessions will enable our budding innovators to assimilate the knowledge, strategies, and ideas shared by our diverse guest speakers. It will guide them to look at problems differently and come up with solutions providing an endless stream of value.

Goal to be accomplished in upcoming 5 years

- Our goal is to maintain and improve upon the benchmark of the previous year.
- To provide more opportunities to the students by increasing the corporate connect via social platforms.
- To approach companies which provide quality jobs to the students with higher package.
- To increase average package every year.
- Conduction of pre placement training by engaging more experienced faculties and training partners with tailor made modules as per the industry standards.
- Fetch out opportunities in developing verticals
- More focus on Contest based hiring
- To introduce more professional trainings to the campus so that student become industry ready as per changed Industrial scenario.

Strategies to accomplish the goal

- In the COVID 19 pandemic challenges, Training & Placement Cell is putting auxiliary efforts to connect with the corporate. New companies have been approached.
- The given pandemic emerged the different opportunities in verticals/sectors like HealthCare/ Pharmaceutical, Fintech & Service deliveries companies, E commerce and Digital marketing companies for which T&P cell has made a special taskforce which is only focusing on these sectors/verticals.
- The Institute has approached reputed Corporate Leaders for digital Corporate Connect through initiatives like Keynote, Alumni Interaction series & InnoLogue talk series. Around 20+ Corporate leaders have already addressed students and faculty on line.
- From enterprise management solutions to IT solutions, tech will remain a green avenue with those with relevant skills. Hence our continuous effort is to bring them at the campus.
- As the world now grapples with the unenviable situation of sitting at home, this gives an opportunity to content creators across platforms like BYJU's, Toppr, Extramarks, Jarn Education, Vedantu & Chegg India etc.
- Over last 2 decades we have our strong network connection now we are taking leverage to bring them onboard.

- We are bringing best experts & training partners from across the nations to train our students before appearing in the placement drives. Tailor made training programs has been introduced for the company specific training.

Placement cell believes in continuous efforts hence we are working rigorously in bringing more and more companies to the Institute so we can provide good placements number. Also, it is duty towards the society to fight with the unemployment nowadays.



Pinnacle Infotech	Zumosun International Research & Consultancy(India) Pvt Ltd	App perfect
Astech Infosystem	Saajha constructions	Persistent Soft
Newgen software	Kapishwar Infracom Pvt Ltd	First American Company
Matrix ComSec	TATA Technologies	Genpact
Info Objects	SLK Technologies	Capegemini
Asriga IT	Voylla	Skill Rock Technologies
Hexa View Technologies	Admate	Adomi group
Skill Rockk Technologies	Capital Via	Idea cellular
App_perfect	Anora Lab	Bluecubes
EnY	Skill Rock Tech	TCS off campus
Genus power	Horizon Infra Design	PRS Associates LLP
Matrix (Phase 2)	Ashiana Housing	Tech Mahindra
Josh Technology	Nodd Technologies	Vodafone
Toppr	Sopra Steria	Arc Gate
BYJU'S	Techno Copacetic	Samsung Research
IBM	HP	Microsoft (campus)
TCS(Intern)	Bulls Eye	Phone support
TCS Pool campus	JUSPAY	Teleperformance
	Techienest	Dewan solutions

III. Start-up planning

Education is the foundation upon which a progressive nation stands and its citizens, made responsible by that education, are the building blocks of that foundation. JECRC Foundation, since its inception over a decade ago, has taken over the mission of nurturing students with the establishment of engineering Institute in Jaipur.

JECRC Foundation is ascribed as one of the leading educational groups in North India strengthening the engineering culture with establishment of upcoming ranked engineering Institute in India and currently more than 4000 students enrolled across various disciplines.

Today, JECRC has earned respect as one of the most preferred engineering Institutes in Rajasthan as clearly represented by the REAP admission trends, year after year and Rajasthan Technical University Quality Ranking Index.

JECRC is driven by the spirit of innovation-led research. This is spelt out in infrastructure as well as practices. The multifaceted research encompasses subject-specific exploration as well as the contexts of the business environment in which our students will operate and perform. JECRC is known for a strong research culture and close industry linkages. JECRC aims at creating valuable resources for industry and society through its interventions in creation of research and innovative culture, academic and professional enhancement and cultural enrichment.

Planning

This Startup Planning will get in effect from 01 July 2019 and will be endorsable till 31 Dec. 2024, i.e. for a period of 5 years.

Objective of the Incubation Center and The Policy

The core objective will be to support and enable innovative ideas to turn into successful startups.

- Develop an incubation center with world class infrastructure and physical facilities
- Incubate 50 innovative and technology backed startups
- Facilitation and creation of an internal seed fund of up to 50 Lakhs to support companies
- Facilitation of angel funding & matching funding through external investors, CSR programs, grants.
- Development of mentor and expert network which can support the incubated startups
- Development of "support center" which can provide service like company registration, IP patent, legal etc. at subsidized rates to incubate companies.

Schemes

Courses and Training

- Training on entrepreneurship to be introduced to develop skills and interest in students as contend beyond.
- Syllabus of the training will be updated as per current market trends to keep the students aware.

- Faculty training shall be done on the annual basis through faculty development programs.

Additional Benefits for incubated student startups (for mature and operational startups)

- Students will get an office for the initial six months after the completion of degree in the incubation centre.
- Facility to defer placement in final year for a period of upto 1 year will also be given to selected student. They can later on opt for placements, in which case, Training and Department will escalate their placements.
- Incubated startups may be allowed to convert their project into final year project toward completion of their degrees.

Awareness building and sensitization (for general students and idea / pre idea stage.)

- Various programs/events like speaker series, startups meetups, hackathons, startup fests etc. where student can engage and learn more about entrepreneurship will be conducted.
- Incubator shall conduct half-yearly/annual B-plan competitions and pitching competitions
- Startups will be provided access / entry to major startups events, programs, conferences.

Startup Support

Financial assistance for Startup

- Seed Funding/Matching Funding will be provided to the startup as sustenance allowance whose project is incubated.
- Assistance to promising startups for securing Angel Funding / Grants / CSR funds / Loans at cheaper rates through external sources will be provided.
- Incubator will provide support to the startups by providing mentoring services, access to their labs, facilities, etc.

- Introduction of special scholarships, grants, funding support and facilitation of loans at cheaper rates for women majority teams (3) people from economically weak background (with a breakthrough idea/innovation)
- Discounted rates for registering a company, filing a trademark, patent filing etc. for incubated startups

Industry Connections

- Startups that are nurtured through incubator will be connected with national and international markets, ecosystem players, multinational companies etc. for commercialization, funding, licensing of their technology, technology transfer, business collaboration or potential buyout.
- Incubated startups will be offered free cloud hosting, other SAAS based service etc. provided by partner organizations.

Infrastructure Support

- Well-equipped co-working spaces / incubation space to be built in the campus to support entrepreneurs.
- Testing labs, internet labs, mobile testing, rapid prototyping, 3D printing labs etc. shall be setup for software, product, hardware testing and various other project purposes.
- Setting up on "support center" using external experts and consultant so that any kind of legal, HR, compliance and related service can be provided to the incubated companies.





IV. Faculty Welfare Planning

Faculty members are the key stakeholders of any institution and their growth is linked with the growth of the institution. There is a need to motivate faculty members for their career growth and also an individual growth in an organization. Individual growth is linked with the freedom of taking initiatives and getting platform at different levels from organization to participation at the institute and outside institute. The motivation includes financial support, paid leaves and other benefits as the case may be. Motivation to enhance their knowledge by increasing qualification certificate, attending skill based training and workshops, publishing papers are some of the key elements that the institution can provide to their faculty members.

Faculty members are motivated to upload their teaching material and video through online mode for critics.

Policy document related to faculty members is published and circulated among them for their benefit. The policy document includes:

- Information about salary and pay scale.
- Financial support as Retention benefit to staff and skill enhancement
- Career advancement and increment based on qualification improvement
- Holidays, leave and vacations
- Testing and consultancy rules
- Performance appraisal
- Financial support for attending conference and paid leaves
- Appraisal for startup / incubation / IPR

Goals to be accomplished in next 5 years:

Following are the points of interest for the faculty member:

- Product development with students
- Participation as key stakeholder for startup / incubation and IPR
- Pursuing higher degree (PhD)
- Financial Grant application for Govt. and Non-Govt. organization
- Utilization of on-line modes of teaching and learning
- Institute – industry interaction by faculty members for consultancy & research
- International collaboration for research, publication, knowledge exchange etc..



V. Student Welfare Planning

This year the institute has taken the multiple initiatives for the welfare of the students. Some of these initiatives are enumerated below:

1. The institute has facilitated the students by allowing them to deposit the tuition fees in 9 EMI's at 0% interest.
2. For carrying out Project/Technical activities, the students are provided financial support for procurement of hardware, raw materials etc..
3. Meritorious students who are able to secure I, II & III position get financial support from the Institute.
4. There are technical clubs established, to promote research & design where hardware is provided to the students by the institute.
5. Meritorious students are appreciated from time to time.
6. Mentors are assigned to each student and a special one-month training called as "Train the Trainer" is imparted to faculty members so that they in turn impart the same training to final year students.
7. The students are also provided additional training by reputed external agencies.
8. MOU's with industry provides skill-based training to students at a discounted rate.
9. Under the Social Responsibility events, the students under guidance of faculty members teach underprivileged students and also provide support for SDP donor.
10. Cultural events like "Nukkad Natak" are performed at nearby places in and around Jaipur by the students.
11. Industrial visits for students are organized for the students with the support of Bhraman Club, which at subsidized rates organizes the industrial visits throughout India.
12. Special academic leaves are allowed to students as per requirement.
13. Appreciation Certificates are provided to students who take part in or organize inter Institute /institutes events.

1. Alumni meets are organized at regular intervals and the distinguished alumni gets recognition.
2. Students are encouraged to join in tree plantation activities.
3. Startup funding is allocated to students and they are also given 3% equity as stakeholder.
4. Training and placement cell motivate the students to pursue higher education.
5. Training and placement cell contact the core industries and arranges the training through Internshala.

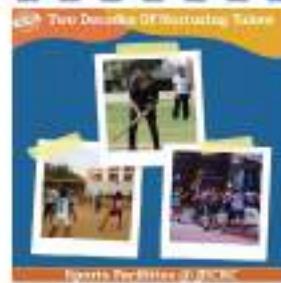
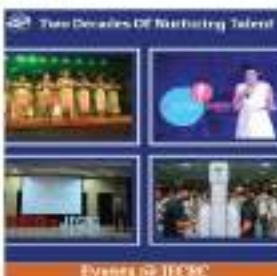
After analyzing and summarizing the feedback received from the students, corrective action was taken by the department and the report has been submitted to IQAC for further action.

FINANCIAL PLANNING:

Time to time budgets is submitted to governing body for the approval- financial sanction is done

1. Student's fees.
2. Conferences are supported through seed money and registration fees
3. Technical seed money
4. Industrial visit
5. Research through government funding.
6. Funding for startup
7. Government projects to increase.
8. Industry supported laboratory.





VI. Spiritual Research Cell

Spiritual Research cell, a unique initiative of JECRC in collaboration with Education Wing of Rajyoga Education and Research Foundation is established on 6th October, 2016 with prime objective to conduct research on Spiritual Dimension of life and to enrich students and staff with the ultimate benefits of meditation and spiritual practices.

Since its inception this cell has been working persistently for the inner development of individuals. Several events and workshops are organized from time to time to empower students emotionally and spiritually. This cell also works as a counseling centre where students get solutions of their real life problems. Full time spiritual mentor cum researcher is appointed to help out students in overcoming negative emotions.

Spiritual research cell built up in 1000 sq. feet consists of a meditation room where contemplation, concentration and realization of real self can be done. All events and workshops takes place in a beautiful sound proof "Wisdom Hall" which also acts as a digital class room. A spiritual library with a collection of beautiful titles adds value to this cell. A research lab cum office is also developed to facilitate research on various aspects of science and spirituality.

This cell is situated in the heart of JECRC campus and is a major attraction for guests and visitors. Till now, delegates from thirty five countries have visited this cell and witnessed the power of spirituality in human life. Honorable AICTE Chairman, Dr. Anil D Sahasrabuddhe has specifically visited JECRC campus to mark the importance of such initiatives for youngsters. Dr.A.S.Kiran Kumar, the then ISRO Chairman also visited this cell and admired its need in present times.

This Cell regularly conducts events for the students as well as faculty members of JECRC and other institutions. Self-Empowerment through Meditation is a regular event organized for students in which learn to distinguish between physical and meta-physical being and thus could choose the better options in life. Events mainly focuses on knowing thyself, knowing the Energy Source and practical experiencing through meditation. This cell also promotes the development of Universal Human Values among the students and faculty members.

"Enlightenment" a spiritual workshop is organized during the annual Institute fest in which students from various institutions participate and enlighten themselves with spiritual knowledge. Development of Techno-Spiritual exhibition is a recent achievement in which students showcased their technical knowledge and spiritual insights in the form of beautiful working models. These models are in the form of games and electronic gadgets and used to clarify spiritual concepts in very simple way.

Brief description of events:

International Day of Yoga

Yoga is an invaluable gift of India's ancient tradition. It embodies unity of mind and body; thought and action; restraint and fulfillment; harmony between man and nature; a holistic approach to health and well-being. It is not about exercise but to discover the sense of oneness with yourself, the world and the nature. International Day of Yoga is celebrated every year in Institute campus to revitalize the energy within and create awareness of its importance.

Renaissance Enlightenment

Enlightenment is Spiritual workshop organized during annual fest Renaissance. This workshop invites participants across India. This workshop gives an idea about the importance and need of adopting Spirituality in youth age. Interesting activities and guided meditation on self-discovery is one of the major attraction for joining this event.

Regular Yoga, Counseling and Visitors

Yoga Sessions for a healthy mind and body are organized on daily basis for the faculty members of Institute. Students with various emotional issues have a difficulty to concentrate and study, so spiritual cell offers counseling for such students so that they can overcome these issues and rejuvenate.



Self-Empowerment through Meditation

This is a seven days event in which one hour session per day is conducted. It is a regular event organized to empower individuals at mental, emotional and spiritual level. Meditation practice allows mind to get calm and create positive, powerful and purposeful thoughts. Once the participants learn to meditate, they practice meditation regularly in meditation room.

VII. Rural Technology Business Incubator (RTBI)

JECRC's Rural Technology Business Incubator (RTBI) is registered under not-for-profit society (Society for Transforming Engineering Education). On 26th March 2018 JECRC established as a formal business incubator with the inception support of the Department of Science and Technology (DST), Rajasthan. the aim of RTBI is to support rural and social start-ups, primarily those that enable scalable products and services.

Mission

- M1 Is to transform job seekers into job providers through RTBI.
- M2 It shall provide basic business amenities and support required by the new start-ups to survive and thrive in their initial growth phase.
- M3 Offer opportunities from Interaction between academia and industry
- M4 Offer opportunities from Interaction between academia and industry
- M5 To build a vibrant innovation ecosystem by establishment of a network between innovators, academia, mentors, investors and incubators.
- M6 To enable young entrepreneurs to develop sustainable business.

Salient features of this RTBI

Incubation offices, meeting cum conference room, access to high-speed internet connectivity, fabrication lab with 3-D printer facilities, lab support for solar innovations and CAD Lab for prototype development. Other than good infrastructure and visibility on campus for young entrepreneurs, the RTBI shall provide support services on business development, legal & patent rights, networking with Angel investors, collaboration with other stakeholders and opportunities for technical workshops to convert the idea into reality.

Incubates are selected based on feasibility and innovativeness of business ideas. Engineering undergraduates, graduates, faculty members and even functional start-ups are eligible for availing incubation and business support services from the RTBI. Even students from other Institutes and universities are also eligible to apply.

Activities:**Alumni-Startup meet on 15th Feb, 2018**

JECRC is always a step ahead creating legacies and leaving trails for others to follow. JECRC has set a benchmark for an ecosystem of startups with astounding start-ups became the part of the first ever Alumni Start-Up meet under the banner of JECRC.

B-Plan Event

RTBI, JECRC, organized B-Plan Competition. Organized in the Conference room of A-block from 11:30 to 2:00 pm on 13-10-2018. It was attended by more than 40 students.

The competition was between the Startup enthusiasts in the Campus and the students who have a knack in entrepreneurship. It was also an interactive session

Following Startup Ideas were screened in:

Secure Gate is a service venture whose founders are Amit Kumar, Aman Khandelwal, Ankur Gupta, Diwanshu Soni. Their venture deals with providing a quality assured security service society as well as commercial places.

OSCORP is a idea started by Pragyan Vashishtha (I Year). He is plasning to develop a device which scans the users movement in 3d send it to receiver.

Aashayein-The Life Saviours, a venture started by Mukul Jain(II year CSE), Kushal Nokhwa(II year CSE) and Rajat Karwa (II year CSE). It is a social entrepreneurship plan which focuses on reducing the Blood crisis in India. It is an extended plan of Aashayein the life saviors.

Marble Mandi, an idea submitted by Rizwan Ahmed (1st year). He will develop a software application, named Marble mandi, to sell the marble online through App/Website.

HERON, an idea submitted by Ritik (1st year CSE) base on providing educational videos to students pursuing various courses.

New Venture (28th March 2018)

NEW VENTURE" is the Business Plan competition organized by JECRC-RTBI in our Techno-Cultural Fest Renaissance. The event seeks to identify budding entrepreneurs that may have the potential to contribute to the buzzing economy in the coming future. Winners got the cash rewards of Rs. 21000 and ten consolation prizes were also distributed.

Smart Business Hackathon (11-12 Oct 2019)

It was sponsored by TEQIP-III (A Government of India Project assisted by the World Bank) on 11th -12th October of 2019 at JECRC Foundation Campus. The Business Hackathon was a strategic platform for young entrepreneurs, enterprises, industries, technologies, to leverage the latest technical innovations on our businesses and daily lives. It was a 36 hours event and participation is open to all the RTU and BTU affiliated Institutes. Business idea were evaluated on the basis of innovation, feasibility and other factors. Top teams of Business Hackathon were awarded with cash prizes of Rs. 1.25 Lacs.

NASA Space Apps Challenge (11-12 Oct 2019)

This event is a global collaboration platform conducted across 250 cities around the world. It was organized by SUMVN and KGS Advisor, co-organized by Think again lab in collaboration with Booz Allen Hamilton, Mindgrub and Second Muse. NASA Space Apps Challenge is an official technical Hackathon which consist 21 challenges and the top 3 participating teams were granted to go in national round at Delhi.

Pre Smart India Hackathon (JECRC 4.0) (17-18 January 2020)

JECRC Hackathon 4.0 was conducted on January ,2020 organized at Jaipur Engineering Institute & Research Centre, Jaipur. This event was last for 24 hours. The teams participating in this event were chosen the SIH problem statement on which they will develop software and hardware using different technologies and tools. There are about 300 problem statements on the Smart India Hackathon WEBSITE on which our students worked and top 9 teams get the chance to represent JECRC in national level competition i.e. "Smart India Hackathon 4.0"

Start-up Launching event (27 January 2020)

MoU was signed between RTBI and 4 Fox Pvt. Ltd. The 4 Fox works in the area of digital marketing, web development and online course delivery. Fruit Full JECRC was Launched in collaboration with Spiritual Research Cell JECRC with the aim of planting 500 fruit trees in the next three years. One more aim was to make the stakeholders of JECRC as a party in this noble cause.

Entrepreneurship Awareness Camp (26 February 2020) In collaboration with MSME

JECRC is selected as a Host institute under the Scheme of "Support for Entrepreneurial and Managerial Development of MSMEs through Incubators" of Ministry of MSME, Govt of India. The main objective of the scheme is to promote & support untapped creativity of individual and to promote adoption of latest technologies in manufacturing as well as knowledge based innovative MSMEs (ventures) that seek the validation of their ideas at the proof of concept level.

Methodology will be to connect the ideators to the Business Incubator of his choice, so that a platform is made available to him with requisite infrastructure for development of the idea. MHRD, AICTE, Mygov and GIZ are official partners for the entire Idea campaign.

1. Outsiders are approaching very less for incubation.
2. Manufacturing start-ups are less in number.
3. Local issues are required to be address.
4. Crisis of funds for the start-ups.
5. Intellectual Property Rights awareness is less.

Future Plans (1 July 2018 – 30 June 2023):

- Organize every year 3 Outreach Events including a number of events organised for the community to promote their involvement in entrepreneurship and innovation.
- Fabrication Lab with Full of Manufacturing Equipment
- Organize every year 1 Ideathon on local issues on addressing local issues/needs of the community
- Organize every year 6 Capacity Building Programs
- Support every year 5 No. of Ideas / Start-ups / Innovators to be supported (physically)
- Support every year 5 No. of Ideas / Start-ups / Innovators to be supported (virtually)
- Support every year 10 No. of Ideas / Start-ups / Innovators to be graduated/ exited
- Support every year 5 Number of new products/technologies/innovations to be commercialized / deployed
- Organize every year 2 Fundraising Events

Train every year 3 new mentors that will be available for mentoring

- Get every year at least 3 new Corporate partners/Collaborations
- Get every year at least 1 new Academic partnerships
- Support every year at least 2 women / economically weaker section led Start-ups to be supported
- Every year 5 lacs of seed funding to be leveraged
- Every year at least 2 new IPs to be generated

RTBI satisfies the 11th program outcome for Engineering Graduates:

PO11-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.





VIII. Fruit Full JECRC

Fruitful JECRC is a joint initiative of Rural Technology Business Incubator(RTBI) and Spiritual Research Cell (SRC) for landscaping the Institute campus full of fruits' trees. This initiative started on the 17th February, 2020 on the birthday of Sh. Arpit Agarwal (Vice-Chairperson - JECRC). The concept of FFJ is to make all the JECRC family members partners in this initiative. Director JECRC inaugurated this initiative by adopting a plant of mango situated outside the GH Lawn. An MOU signed between the Fruit-Full JECRC team and adoptee of the tree. Our motive is to provide an opportunity to connect with nature. One can plant a tree on special occasions like birthdays', anniversaries or any other special day. Apart from providing the joy of picking out fresh fruit without stepping out of Institute campus, fruit trees produce fresh oxygen and cleaner air to breathe.

Mission of FFJ

M1 To fill the campus with variety of fruit Trees

M2 To aware the stakeholders about sustainable development and environmental challenges

M3 To support the livelihood of the support staff

M4 To make the campus green

Importance of tree

A pond equals ten wells, a reservoir equals ten ponds. A son equals ten reservoirs, and a tree equals ten sons!

Trees give us oxygen, store carbon, stabilize the soil and give life to the world's wildlife. They also provide us with the materials for tools and shelter.

One tree produces 100kg (Approx) of oxygen per year. A human breathes about 740kg of oxygen per year. Which is roughly 7.4 trees in a year.

Trees benefit health, Trees benefit the environment, Trees boost wildlife, Trees strengthens communities, Trees grow the economy

Events Celebration with plantation

Vice-Chairperson's Birthday

Fruit Full JECRC initiative started on the 17th of February, 2020 on the birthday of Sh. Arpit Agarwal. Very first plant was adopted by the Vice-Chairperson JECRC and other members of JECRC Family. An MOU was signed between the Fruit Full JECRC team and adoptee of the tree.

Principal's Birthday

On the occasion of his birthday Prof. V. K. Chandra (Principal-JECRC) adopted 5 amla trees. Amla is not only used for pickle but also has many medicinal properties. Many other staff members also adopted the trees on this day.

Teacher's Day

This Teacher's day has celebrated with planting Blackberry, Orange, Apple-ber, Jack Fruit, Bael and many more fruits trees.

Roles and responsibilities of Adoptee FFJ

1. To visit their adopted tree at least once in a week to take care of his/her tree.
2. To share the photographs of the first fruit with the FFJ group.
3. To share the status of the tree with FFJ team.

Roles and responsibilities of Team FFJ:

1. Team to take care of the tree till this bears first fruit.
2. To replace the tree if needed.
3. To notify the adoptee about the condition of the tree on a regular basis.





Future Plans

Green Campus: Team FFJ have the dreams of greening the campus and want to plant 500 trees in the campuses of JECRC Foundation. These trees will be fruit trees of all types.

Green Departments: Team FFJ wish to convert all the departments into green departments using ample indoor plants. FFJ wants to plant 100 such plants in each department. This initiative will create an environment friendly ecosystem.

Surrounding of campus: Planting the shady trees in the surroundings of the campus. FFJ plans to plant 100 such trees. In addition; this will provide the shady space for parking outside.

Herb Garden: Herb garden creates awareness about the ancient Indian medical systems commonly known as ayurveda. These herbs will motivate the staff students to grow such plants in their homes.

IX. Accommodation and life at campus

The Chief Administrative officer's organization, consisting of Hostels and Security, are the Auxiliary and Ancillary services and complement the primary goals and activities by facilitating their efficacy and efficiency. These are hygiene factors to maintain optimum efficiency levels.

These facilitate lodging and board comfort of outstation students and ensure safety and security of assets and enforce discipline and control. The CCTV System provides a 24x7 surveillance and monitoring mechanism to guard against any unwarranted activities. Hostellers contribute substantially in the co-curricular and extra-curricular activities due to co-location. Residential comfort of outstation students is a necessity, without which they can't effectively participate in the Vision and Mission of JECRC of becoming a centre of academic excellence and contribute to social enrichment. Safety and security is a paramount need to ensure security of assets and smooth /disruption free functioning of Academia for pursuing the Vision & Mission.



X. JECRC Alumni Association Planning

Since its founding in 2007, the JECRC Alumni Association (JAA) has endeavored to connect JECRC alumni with each other and their alma mater. 13 years later, JAA continues as one of the state's well established independent alumni associations, with a mission of engaging an alumni community of nearly 8,000+ graduates.

JECRC is moving ahead on the path of futuristic vision & in this journey our alumni have played an important role in building the brand of JECRC and have contributed immensely to the growth of the college.

The 2020–2023 strategic plan is our best effort to highlight what we consider some of the most important strategic initiatives for the JECRC Alumni Association during the next three years. The plan is guided by our updated vision that "all JECRC alumni nationwide & worldwide are connected and actively engaged with JECRC for life." Our focus is on fostering meaningful alumni engagement and chartering timely, relevant initiatives to support our continued growth and enhanced service to our alumni and our alma mater.

Vision of Alumni Department

All JECRC alumni nationwide & worldwide are connected and actively engaged with JECRC College for life.

Be a recognized, admired, and respected alumni/ae network to the country & world and to each other—known for providing opportunities and services to connect, develop, and advance the JECRC alumni/ae community in a uniquely progressive way.

Make a difference & create a strong alumni volunteer pipeline & strengthen alumni/ae philanthropy.

Mission of Alumni Department

Our mission is to advance and promote the interests of the JECRC College by connecting alumni with each other and with their alma mater. Our mission is to:

1. To collaborate in JECRC's commitment to become a leading technical education institution.
2. To fulfill this mission by cultivating a diverse community of learning and discovery that produces leaders across the spectrum of human endeavor.
3. JECRC Alumni Association aspires to provide meaningful engagement opportunities for all JECRC Alumni to be involved with the institution and connected to each other. Today, 20 years after the founding of JECRC, alumni remain as engaged and connected to the College as ever. JECRC Alumni Association represents a vibrant and diverse community – a family that is continuously growing and adding new members, whose spirit and determination are unrivaled.
4. The JECRC Alumni Association aspires to represent, mobilize and serve this community on campus and around the world.

Strategic Direction

To be successful in building an even stronger alumni community and providing more support for the college in the future, we need to broaden and deepen our engagement of alumni and future alumni.

Over the next 3 years, we aim to set the stage for the next 15 years of the JECRC Alumni Association and our support of the college and the alumni community. To accomplish this, our three major strategic directions for 2020–2023 will be:

- To focus on programmatic and communication efforts that attract, engage, and serve the greatest number of alumni
- To bring 100% alumni in connected networks i.e exclusively redesigned alumni portal & LinkedIn network.
- To make a spot in top 10 Alumni Association in North India
- To increase our premier alumni involvement in growth activities

FOCUS AREA	GOALS	OBJECTIVES
ALUMNI	1. Develop and enhance the connections with and among Alumni	1.1. Maintain and improve robust communication through personal relationships, alumni portal and social media. 1.2. Plan virtual, social and informational events designed around Alumni interests. 1.3. Continue to provide opportunities for Alumni to connect with each other. 1.4. Strive to find meaningful ways to connect management & students with Alumni. 1.5. Continue recognition of Alumni through various awards programs and various media. 1.6. Increase the national & international network for alumni support and admission. 1.7 Introduce Alumni Advisory Board Program.
STUDENTS	2. Increase student awareness of the Alumni Association, its purpose, activities and services.	2.1. Partner with student organizations & clubs to create opportunities for Alumni to meet and network with students. 2.2. Take an active role in student programs and activities that will build JECRC Alumni brand awareness and recent graduate programs. 2.3. Strengthen Student Mentorship Program.

COMMUNITY	3. Strengthen partnerships with the larger college community and increase alumni participation in college-sponsored events.	3.1. Connect management with Alumni to engage the larger alumni community. 3.2. Play an active role in the 15 th anniversary celebration during the 2022-2023 academic year. 3.3. Assist with the cultivation of corporate leaders to increase corporate and individual support, partnerships and fundings.
GIVING	4. Promote Alumni giving to various fund-raising activities. 5. Assist in promoting giving from the larger alumni community.	4.1. Help develop and assist in fundraising campaigns, including the annual fund and special fundraising activities. 4.2. Strive for 100% board member participation in the annual fund. 5.1. Play an active role in early cultivation and engagement of major giving prospects
INVOLVEMENT	6. Increase involvement of Alumni in attending college events and supporting the college.	6.1. Develop and maintain Alumni affinity programs to promote ongoing connections with JECRC College. 6.2. Strengthen and enhance the various methods for Alumni to connect with each other.
STAYING CONNECTED	7. Develop and enhance the connections among Alumni, board members, students, the community and friends.	7.1. Continue to expand the Alumni Association's social media presence especially on LinkedIn. 7.2. Share the success & achievement stories of our Alumni. 7.3. Recruit potential Alumni board members with pride and passion for the campus and

