



**CHANDIGARH**  
**ENGINEERING COLLEGE**  
**CGC, LANDRAN, MOHALI**  
Building Careers. *Transforming Lives.*

# Strategic Perspective Development (SPD) Plan (2021–26)



# Strategic Perspective Development (SPD) Plan (2021-26)

Chandigarh Engineering College  
Sector 112, Greater Mohali, Landran, Punjab

## ***Message***

Esteemed faculty, students, and members of the CGC family,

Today marks a significant stride forward as we unveil the Strategic Perspective Development Plan for Chandigarh Engineering College, Landran, Mohali. This plan, meticulously crafted by our Internal Quality Assurance Cell (IQAC), embodies our dedication to continuous enhancement and academic excellence.

The IQAC's dedication and meticulous effort have culminated in a roadmap that charts our course towards innovation, student-centricity, and holistic growth. This plan reflects our commitment to providing a transformative educational experience that prepares our students to excel in a rapidly evolving world.

I extend my heartfelt appreciation to the IQAC team and all those who have contributed to shaping this vision. Let us move forward unitedly, embracing this plan as a catalyst for positive change and progress. Together, we shall realize the potential of Chandigarh Engineering College and set new benchmarks in education.

Thank you.

S. Satnam Singh Sandhu

Chairman, Chandigarh Group of Colleges (CGC)

## ***Message***

Dear CGC fraternity,

Today marks a significant juncture as we unveil the Strategic Perspective Development Plan for Chandigarh Engineering College, Landran, Mohali. This plan, crafted diligently by our Internal Quality Assurance Cell (IQAC), embodies our collective commitment to excellence and growth.

The IQAC's dedication and expertise have culminated in a roadmap that steers us towards innovation, student empowerment, and academic distinction. This plan reflects our unwavering pledge to provide a transformative educational journey that equips our students for a dynamic future.

I extend my sincere gratitude to the IQAC team and all contributors who have shaped this vision. Let us stand united, embracing this plan as a catalyst for positive change and progress. Together, we shall elevate Chandigarh Engineering College to new heights of distinction and impact.

Thank you.

S. Rashpal Singh Dhaliwal

President, Chandigarh Group of Colleges (CGC)

## ***Message***

Dear CGC community,

Today marks a significant milestone as we unveil the Strategic Perspective Development Plan for Chandigarh Engineering College, Landran, Mohali. This meticulously crafted plan, authored by our dedicated Internal Quality Assurance Cell (IQAC), signifies our commitment to academic excellence and growth.

The IQAC's diligent efforts have resulted in a roadmap that guides us towards innovation, student-centricity, and educational distinction. This plan exemplifies our unwavering dedication to providing a transformative learning environment that nurtures future leaders.

I extend my heartfelt appreciation to the IQAC team and all contributors who have played a pivotal role in shaping this vision. Let us move forward in unity, embracing this plan as a catalyst for positive change and progress. Together, we shall elevate Chandigarh Engineering College to new pinnacles of success.

Thank you.

Sh. P. N. Hrisheekesha

Campus Director, Chandigarh Group of Colleges (CGC)

## *Message*

Dear students, faculty, and staff,

Today marks a momentous occasion as we unveil the Strategic Perspective Development Plan for Chandigarh Engineering College, Landran, Mohali. This plan, meticulously crafted by our dedicated Internal Quality Assurance Cell (IQAC), embodies our shared commitment to academic excellence and growth.

The IQAC's meticulous work has culminated in a roadmap that directs us towards innovation, student-centricity, and educational distinction. This plan signifies our unwavering dedication to fostering a dynamic learning environment that prepares our students for a dynamic future.

I extend my heartfelt gratitude to the IQAC team and all contributors who have played a pivotal role in shaping this vision. Let us move forward together, embracing this plan as a catalyst for positive change and progress. Together, we shall lead Chandigarh Engineering College to new horizons of success and impact.

Thank you.

Dr. Rajdeep Singh

Director-Principal

Chandigarh Engineering College, Landran, Mohali

## *Message*

Dear CEC community,

With great pride, we unveil the Strategic Perspective Development Plan for Chandigarh Engineering College, Landran, Mohali. Crafted diligently by our Internal Quality Assurance Cell (IQAC), this plan embodies our commitment to academic excellence and continuous improvement.

The IQAC's meticulous efforts have resulted in a roadmap that propels us towards innovation, student-centricity, and holistic growth. This plan reflects our unwavering dedication to providing an enriching educational experience that prepares our students for a dynamic future.

I extend my heartfelt appreciation to the IQAC team and all contributors who have played a pivotal role in shaping this vision. Let's embrace this plan as a catalyst for positive change and progress, fostering an environment where excellence thrives.

Thank you.

IQAC Coordinator

Chandigarh Engineering College, Landran, Mohali

## *Preface*

For an organization, strategic development planning is essential to accomplish the Vision and Mission, which it dreams of. Strategic planning is a continuous process with a specific focus on accomplishing institutional goals in this competitive world. Strategic Perspective Development Plan (SPD) is based on analysis of current obstacles and future opportunities and envisages the direction towards which the organization should move to achieve its set goals and objectives.

The first part of it addresses the vision, mission which the institute dreams along with core values, institutional long term & short-term goals. These are defined and guided by the stake holders (Management, Director-Principal, HODs, faculty, staff, industry, students, alumni and parents) through SWOC analysis. After analyzing the internal and external environment, the institutional goals were set up in all possible growth domains through continuous thought process and discussion with HODs and faculty members. Strategies with action plans were decided to achieve institutional strategic goals.

While formulating the strategic plan document, care has been taken to involve all stakeholders to help contribute their part which is vital for the success of every organization. Effort has been taken to clearly identify the implementation processes and monitoring by identifying measurable targets in line with the desired outcomes. This will emerge to be the guiding force for CEC to achieve its goal to become an institution of Academic Excellence and providing professional by skilled young Engineers and Managers to society.



## ***Vision***

To become a leading institute of the country for providing quality technical education in a research-based environment for developing competent professionals and successful entrepreneurs.

## ***Mission***

1. To provide state of the art infrastructure and engage proficient faculty for enhancing the teaching learning process to deliver quality education.
2. To give a conducive environment for utilizing research abilities to attain new learning for solving industrial problems and societal issues.
3. To collaborate with prominent industries for establishing advanced labs and using their expertise to give contemporary industry exposure to the students and faculty.
4. To cater opportunities for global exposure through association with foreign universities.
5. To extend choice-based career options for students in campus placements, entrepreneurship and higher studies through career development program.

# ***Core Values***

## **Core Values of CEC**

- **Integrity**
  - Uphold the highest ethical standards and promote trust and respect
- **Inclusiveness**
  - Value uniqueness of people, cultures, work styles and talents.
  - Encompassing and embracing every entity
  - Honour the Dignity of all people.
- **Compassion**
  - Bringing humanity to work.
  - Demonstrating genuine empathy and respect with consistency.

## An outline of Strategic Perspective Plan



# SWOC Analysis

## Strength:

- Good reputation for high quality teaching & laboratory based practical skills.
- Known for quality admissions and attracting a good number of students in all courses.
- Equal emphasis on co-curricular and value-added courses on Emerging Technologies.
- Beyond the syllabus curriculum to make the students ready for the present global scenario.
- Constant encouragement of faculty for pursuing Ph.D., research and innovation, IPR, advancement of qualification etc.
- Constant mentoring, monitoring, and a strong feedback system of students.
- Good Faculty Retention due to peaceful, stress-free working environment.
- Training and grooming of students to make them industry ready and enhancing their Employability skills by imparting technical training, Career Guidance, Soft skill, GD & Aptitude classes etc.
- Various activity clubs viz. Tech club, Cultural club, and Sports club etc., for Innovation & all-round development and extracurricular activities.
- Academic achievements of students in university examination and other platforms.
- Achievements in placement by students in various reputable organizations and reputed companies as well as in higher studies and entrepreneurship.
- Various Faculty and Student Chapters like IETE, IEI, ISTE, CSI, ACM, Geeksforgeeks student chapter, Google Developer Student Club, Society of Automobile Engineers etc. Also, NPTEL Local Chapter is available to offer students MOOCs program.
- The institute got a separate International Affairs department to look after all international tie-ups, Collaborations, exchange programmes etc.
- Strong Alumni base that helps for the job generation and referral drive of junior students.
- Dedicated research and Innovation Department (RISE) for research and innovation and IPR activities.
- Featuring in all reputed ranking systems like NIRF, ARIIA, and MOE-IIC etc. with overall ranking improvement every year. Also, the Institute got privileged in getting featured in all rankings being conducted by magazines of repute.
- Diversity in students from the majority of states of the country.

- The existence of well-crafted various employee welfare schemes and policies.
- Proactive Internal Quality Assurance Cell (IQAC) to ensure quality in teaching learning process including Centre of Excellence, latest technological labs and trainings.
- Focus on Green initiatives with Energy Conservation and Waste management system.
- Extension and services to society conducted by NCC, NSS, Unnat Bharat Abhiyan through various activities.

### **Weaknesses:**

- There is a shortage of Ph.D. degree holders and senior professors mainly in emerging areas. However, there is a continuous effort made by the management to recruit senior level faculty members having Ph.D. degrees from reputed institutions.
- Government and other agencies Grants are not as per expectations due to grants of funds for Self-Financed private institutions by Govt., Non- Govt. & External agencies. Infact, certain Govt. schemes are not opened for private institutions.
- Since course curriculum is as per IKGPTU, there is no flexibility in academic curriculum.

### **Opportunities**

- Collaboration with International and National Institutes of repute and other recognitions for futuristic research and development in sync with the New Education Policy.
- Introduction of New Programs in sync with the latest technological advancement and industry needs.
- Strengthening of already existing Faculty – student exchange program with reputed National & Foreign Universities.
- Focus on Research activities & collaboration with institutes and industries for more diversification and to produce Industry ready graduates.
- Involving more faculty members in research-oriented programs
- Exploring more opportunities for External funding for research, project and innovative programs
- Enrolment of Students in Internship programs in different renowned corporate houses & industries
- Extract various available opportunities for Start-ups by different Government Agencies.
- Enhancing of Skill centers for vocational / Advanced Skill / Research Centre / Incubation

Centre etc.to Advance level.

- Well Renowned institutes and organizations like IIT Ropar, NITTTR Chandigarh, NIPER Mohali, CSIO, CDAC etc. are situated at reasonable distance so a collaborative education hub exclusively dedicated for Research and Academic Excellence can be conceived keeping in sync with new education policy.

## **Challenges**

- Students come with various vernacular and ethnic backgrounds and training these multi-languages speaking students in English language and developing their communication skills is really a challenging job.
- Gap in course curriculum with respect to Industry standards and our inability to modify it as per present market scenario due to guidelines by affiliating university. However, Exclusive TPP Department striving hard to bridge this gap.
- Keeping pace with continuous modification of technological advancement.
- To motivate faculty members for New Product Development/ R&D/ Innovation etc.
- Present lack of interest among students for few engineering disciplines.
- Getting ready for interdisciplinary courses as per new education policy.
- Alarming trends by few of the institutions to offer students non attending degrees specially in PG Courses.
- To attract more research funding from DST/ DIT/ UGC/ AICTE/ DRDO/ ISRO etc.

## **Strategic Perspective Plan from 2021 to 2026**

Though the Strategic Perspective Plan was from 2019 to 2024, but due to the implementation of initiatives as per NEP, the strategic plan has been revised from 2021 to 2026. The strategic perspective plan will be applicable from Academic Session 2021-22.

### **Initiatives as per NEP and beyond NEP**

- Accreditation
- Aim for Academic Autonomy and industry-based curriculum.
- Enhancement of Experiential, Participative, Project Based, Problem-Solving Approach based learning and Self Learning.
- Multidisciplinary courses
- Support for Start-Ups
- Holistic Development
- Go Green Campus

## Strategic Planning

<b>Teaching learning process</b>	<ul style="list-style-type: none"> <li>• Academic planning and preparation of Academic Calendar</li> <li>• OBE based teaching plan</li> <li>• Preparation of Lecture Plan.</li> <li>• Use of effective ICT based teaching aids.</li> <li>• Development of e- learning resources</li> <li>• Add on /Certificate/Value added certification courses.</li> <li>• Project work/field work/ internships</li> <li>• Provide mentoring and personal support.</li> <li>• Follow a transparent and fair feedback system.</li> <li>• Conduct training based on need analysis.</li> <li>• Continuous assessment to measure outcomes.</li> <li>• Implementation of best practices.</li> <li>• Attainment of POs and COs</li> <li>• Continuous Upgradation of infrastructure and physical facilities viz., classrooms, laboratories</li> <li>• Library automation, subscription to e-resources</li> </ul>
<b>Student Centric Approach</b>	<ul style="list-style-type: none"> <li>• Experiential learning, participative learning, problem-solving methodologies and self-learning.</li> <li>• Student's representation in various committees and clubs.</li> <li>• Incentives for student activities.</li> <li>• Students Trainings &amp; Placement Activities</li> <li>• Participation in competitions</li> <li>• Organizing competitions</li> <li>• Rewards &amp; recognitions of achievers</li> <li>• Encourage Participation in extracurricular and cocurricular activities.</li> <li>• Grievance redressal system and Transparent mechanism for timely redressal of student grievances</li> <li>• Scholarships and incentives provided by the Government and Non-Government agencies, philanthropists and institute.</li> </ul>
<b>Research and Development</b>	<ul style="list-style-type: none"> <li>• Dedicated R &amp;D facilitation center RISE.</li> <li>• Establish Laboratories with R&amp;D Facilities.</li> <li>• Apply for Government/Non-Government, industry,sponsored funds and grants for research projects.</li> <li>• Association with Government &amp; Private Institutes,Universities and Research Organizations</li> <li>• Applying and granting of Patents.</li> <li>• Publications</li> <li>• Incubation centers</li> <li>• Center of Excellence</li> <li>• Ecosystem for entrepreneurs.</li> </ul>



<b>Developing requisite competencies amongst students</b>	<ul style="list-style-type: none"> <li>• Incentives for student development programmes and activities.</li> <li>• Career guidance</li> <li>• Students Trainings &amp; Placement Activities</li> <li>• Guidance for competition exams and higher studies.</li> <li>• Development of Leadership qualities.</li> <li>• Encouragement for Technical and Non-Technical Events.</li> <li>• Participation in extracurricular and cocurricular activities</li> <li>• Outreach programs for personality development.</li> </ul>
<b>Human Resource Planning and Development</b>	<ul style="list-style-type: none"> <li>• Recruitment Policy formation &amp; implementation</li> <li>• Faculty with good academic qualification and Good student teacher ratio.</li> <li>• Faculty and Staff performance evaluation system</li> <li>• FDPs/SDPs for quality improvement</li> <li>• Code of conduct, service rules &amp; leave rules.</li> <li>• Staff welfare initiatives and schemes implementation</li> <li>• Deputation for seminars, conferences, and workshops etc.</li> <li>• Motivation for Qualification Improvement and incentives.</li> <li>• Support for research, consultancy, innovations</li> </ul>
<b>Quality Admissions</b>	<ul style="list-style-type: none"> <li>• Dedicated admission cell working in coordination with Registrar Office and Finance Department.</li> <li>• Students with high percentage and better ranks to be admitted</li> </ul>
<b>Career Enhancement</b>	<ul style="list-style-type: none"> <li>• Trainings for latest skill development</li> <li>• Establishing incubation centers</li> <li>• Excellent opportunities for Placements</li> <li>• Guidance for Higher studies.</li> </ul>
<b>Industry Interaction</b>	<ul style="list-style-type: none"> <li>• Formation of industry institute interaction cell</li> <li>• MoUs with industries</li> <li>• Support for internships, visits, trainings, guestlectures</li> <li>• Gap identification.</li> <li>• Providing opportunities for Industry based/sponsored projects.</li> <li>• Providing career guidance</li> <li>• Strengthening training &amp; placement.</li> <li>• Establishing collaborative labs / Center of Excellence.</li> </ul>
<b>Society/Community Engagement</b>	<ul style="list-style-type: none"> <li>• Donations/ assistance in kind from institution resources/Faculty/students/other donors.</li> <li>• Community and social development work.</li> <li>• Provide vocational training /job-oriented training as per local needs at the institute.</li> <li>• Conducting awareness camps</li> <li>• Extension activities to be carried out in the neighborhood community.</li> <li>• Extension and outreach programs to be conducted by the institution through NSS/NCC/Unnat Bharat Abhiyan (UBA)</li> </ul>

<b>Internationalization</b>	<ul style="list-style-type: none"> <li>• Establishment of separate International Affairs Department.</li> <li>• Emphasis on collaboration with renowned international universities.</li> <li>• Exploring different exchange schemes, MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship etc.</li> </ul>
<b>Accreditation</b>	<ul style="list-style-type: none"> <li>• NBA and NAAC Accreditation</li> </ul>
<b>Aim for Academic autonomy and industry-based curriculum</b>	<ul style="list-style-type: none"> <li>• Autonomy</li> <li>• Industry based Curriculum</li> </ul>
<b>Enhance Multidisciplinary courses</b>	<ul style="list-style-type: none"> <li>• More new Multidisciplinary Courses that address societal or global challenges that require multidisciplinary approaches to be introduced</li> </ul>
<b>Enhancement of Experiential, Participative, Project Based, Problem-Solving Approach based learning and Self-Learning</b>	<ul style="list-style-type: none"> <li>• Add on /Value added certification courses.</li> <li>• More Industrial visits</li> <li>• Active participation of students in discussions, debates, and group activities.</li> <li>• Bloom's taxonomy mapped assignments and question papers to be given.</li> <li>• Group Projects</li> <li>• Alumni Interaction</li> <li>• Smart India Hackathons</li> <li>• Institute Conferences</li> <li>• Smart Class rooms</li> <li>• Expert lectures</li> <li>• Workshops, Industrial Visits</li> <li>• Simulation software</li> <li>• Based labs</li> <li>• Real time examples</li> <li>• Monograms/Logo Maker</li> <li>• Video lectures</li> <li>• Animated Lectures</li> </ul>
<b>Start ups</b>	<ul style="list-style-type: none"> <li>• Startup policy</li> <li>• Incubation Center</li> <li>• Seed Funding and other support to promising start-ups initiated by students.</li> <li>• More Industry Tie-ups</li> <li>• Pitching Competitions or Hackathons</li> </ul>
<b>Holistic Development</b>	<ul style="list-style-type: none"> <li>• Emphasis on overall grooming of students</li> <li>• Academic Excellence</li> <li>• Good infrastructure</li> <li>• Research and Innovation</li> <li>• Extra-Curricular Activities</li> <li>• Sports</li> <li>• More Industrial Exposure</li> </ul>

	<ul style="list-style-type: none"> <li>• Entrepreneurship Initiatives</li> <li>• Soft Skills and Personality Development</li> <li>• Social Development</li> <li>• Yoga Centre</li> <li>• Value Based Education</li> </ul>
<b>Go Green Campus</b>	<ul style="list-style-type: none"> <li>• Energy Management and conservation</li> <li>• Waste Management</li> <li>• Water Conservation</li> <li>• Eco-friendly Landscaping</li> <li>• Awareness and Education</li> <li>• Reducing Paper Usage</li> <li>• Electric vehicles</li> </ul>
<b>To be in Top 100 educational institutes in India with Global Connectivity</b>	<ul style="list-style-type: none"> <li>• Improve NIRF and other rankings</li> </ul>

## **Conclusion**

The SPD plan is an effort for paving a pathway towards accomplishment of goals CEC dreams to achieve. Just formulating the strategic plan doesn't ensure success, but it provides a guiding framework which is a collective effort delivered by the process of participative brainstorming of stakeholders. The proper implementation of strategies through teamwork with good spirit leads to success and sustainability over a longer time through a dynamic process. It needs continuous evolution to incorporate the lessons learnt during the implementation and emphasizes the role of IQAC in ensuring the quality of implementation.

## CHANDIGARH ENGINEERING COLLEGE-CGC, LANDRAN, MOHALI

### DEPLOYMENT OF STRATEGIC PERSPECTIVE PLAN

Sr. No.	Strategic Goals	Planning	Action Taken
1	Teaching learning process	Academic planning and preparation of Academic Calendar	IQAC takes care of effective Implementation of Academic Calendar
		OBE based teaching plan	Syllabus, students' Assignments, Mid Semester Tests (MSTs) etc. are mapped with the COs. Attainment of POs and PSOs is computed by using direct and indirect assessment methods. It has been observed CO/PO attainment has improved in the last five years.
		Preparation of Lecture Plan	Unit wise and Marks wise, CO mapped lecture plan has been prepared for each course of every program.
		Use of effective ICT based teaching aids	For effective teaching learning ICT based teaching aids like android studio, Canva, LMS, Google Meet, Google Docs, YouTube, Udemy, NPTEL, MOOCs etc. are being used. IT policy has been formulated.
		Development of e- learning resources	Common Reference Material is shared with the students by the faculty on LMS platform, video lectures with animations on popular and trending topics of many faculty members have been recorded in the Smart classrooms and branding studio and are available on YouTube.
		Add on /Certificate/Value added certification courses	A large number of add-on certification courses from very good platforms like SWAYAM, NPTEL, NASSCOM, AWS, COURSERA, INTERNSHALA, ICT ACADEMY, UDEMY, SPOKEN TUTORIALS etc. have been completed by students. Campus2Boardroom certification courses are conducted by TPP Department for final year students. Number of Add on/Certificate/Value added programs offered have increased substantially.
		Project work/field work/ internships	Each department has been undertaking various activities like projects, industrial visits on regular basis and students are undergoing internships in reputed companies.
		Provide mentoring and personal support	To provide professional and personal support to the students, one mentor has been assigned to the group of 30-35 students.
		Follow a transparent and fair feedback system	Stake holders' (Students, Faculty, Alumni, Employers) feedback is taken, analyzed and suitable action is taken on the collected feedback.
		Conduct training based on need analysis	Need base In-house trainings on the latest technologies for the students are arranged by Departments after analyzing the curricular gaps.
		Continuous assessment to measure outcomes	For the improvement of student's academic achievements and motivation levels, continuous assessment is done in the theory as well as lab courses.
		Implementation of best practices	The College has been implementing the best practices to improve curricular and co-curricular activities for the students like patents filing at RISE department, advance training at TPP department and continuous mentoring at CCs level.
		Attainment of POs and COs	Departments have been making every efforts for the attainment of POs and COs.
		Continuous Upgradation of infrastructure and physical facilities viz, classrooms, laboratories	More Smart Classrooms, Labs with ICT facilities have been established. Labs with ICT facilities have been established. Facilities and equipment in the laboratories have been continuously augmenting. Expenditure for infrastructure augmentation has increased considerably.

		Library automation, subscription to e-resources	The institution has main Library (Wi-Fi and LAN enabled) in addition to Department Libraries. The library works on LIBSYS SOFTWARE. The users can access to e-resources like EBSCO, DELNET, NDL, and NPTEL video lectures, Turnitin Software, Digital Library, OER REPOSITORIES and other e-resources.
2	<b>Student Centric Approach</b>	Experiential learning, participative learning, problem-solving methodologies and self-learning	Students are continuously encouraged to participate in Smart Hackathons and other national level competitions. Group discussions and AMCAT exams are conducted on regular basis for the students to improve their learning ability. Students are also motivated for self-learning through library resources, video lectures, MOOC courses etc.
		Student's representation in various committees and clubs	Various student clubs and societies have been formed at department level and various academic and non-academic activities are organized by the clubs through the involvement of students.
		Incentives for student activities	Medals and prizes are given to students
		Students Trainings & Placement Activities	TPP Cell conducts training and pre-placement activities for students
		Organization and Participation in competitions	Departmental clubs organize various activities and competitions and encourage the students to participate in them.
		Rewards & recognitions of achievers	Performance of students is judged and they are encouraged by awarding with rewards and recognitions.
		Encourage Participation in extracurricular and cocurricular activities	Students are motivated to participate in various extracurricular, cultural and sports events.
		Grievance redressal system and Transparent mechanism for timely redressal of student grievances	Grievance redressal Committee is there to address all the complaints of the students.
		Scholarships and incentives provided by the Government and Non-Government agencies, philanthropists and institute	PMSSS, institute scholarships and other Scholarships are provided to students.
3	<b>Research and Development</b>	Dedicated R &D facilitation center RISE	Department of RISE has been established to create research and innovation conducive environment and facilitate research activities.
		Establish Laboratories with R&D Facilities	Departments have established various research labs in addition to those prescribed by affiliating University for research and development.
		Apply for Government/Non-Government, industry, sponsored funds and grants for research projects	Government/Non-Government projects are applied regularly and appropriate grants have been received.
		Association with Government & Private Institutes, Universities and Research Organizations	The Institute has signed various MOUs with outside institutions to carry various R & D activities, sponsored projects and expert lectures.
		Applying and granting of Patents	A considerable no. of patents has been filed and published.
		Publications	No of Quality publications like SCI, Scopus etc. have increased.
		Incubation centers	ACIC RISE society is there in the campus.
		Center of Excellence	Centers of Excellence for drone, cyber security, advanced manufacturing and IOT have been established.
		Ecosystem for entrepreneurs	ACIC RISE support new startups.
4	<b>Developing requisite competencies amongst students</b>	Incentives for student development programmes and activities	Students are awarded with certificates and other prizes for their performance in club activities.
		Career guidance	CRC cell is there to help the students which cater their all needs with respect to career guidance and placements.

		Students Trainings & Placement Activities	TPP cell is there to help the students to enhance their technical and non-technical skills to make them employable.
		Guidance for competition exams and higher studies	Expert lectures on competition exams and higher studies are conducted regularly.
		Development of Leadership qualities	Clubs are the platforms where students plan and execute their ideas with the support of the college and these activities improves their leadership qualities too.
		Encouragement for Technical and Non-Technical Events	Through various clubs of the department, efforts are made to develop both, the technical and the non-Technical skills of the students.
		Participation in extracurricular and cocurricular activities	Each department has established clubs where extracurricular and cocurricular activities are planned and executed.
		Outreach programs for personality development	For the personality development of students, TPP department conducts personal interview of the students on regular basis.
5	<b>Human Resource Planning and Development</b>	Recruitment Policy formation & implementation	The college has full fledged recruitment policy for the recruitment of faculty and staff.
		Faculty with good academic qualification and Good student teacher ratio	No of PhD Faculty has increased.
		Faculty and Staff performance appraisal system	There is well defined performance appraisal system for the faculty as well as staff for their yearly increments.
		FDPs/SDPs for quality improvement	Number of FDPs/SDPs have increased.
		Code of conduct, service rules & leave rules	In the HR policy of the college all rules related to code of conduct, service and leaves have been framed.
		Staff welfare initiatives and schemes implementation	In the HR policy of the college, staff welfare initiatives and schemes like employee welfare scheme, gratuity, maternity benefits, accidental insurance, medical reimbursement, promotion etc. have been framed and followed with letter and spirit.
		Deputation for seminars, conferences, and workshops etc.	All the faculty members are encouraged to attend seminars, conferences, and workshops etc. for which incentives are also given in the form of reimbursement of registration fee, and paper publication etc.
		Motivation for Qualification Improvement and incentives	Qualification upgradation policy has been formulated and implemented. Incentives are given for qualification enhancement. A large number of faculty members have availed the benefits of the same.
6	<b>Quality Admissions</b>	Dedicated admission cell working in coordination with Registrar Office and Finance Department	There is dedicated admission cell in the institute that is working in coordination with Registrar Office and Finance Department.
		students with high percentage and better ranks to be admitted	The opening and closing ranks of students admitted in B. Tech CSE through JEE/University counseling have improved substantially. The no. of students with more than 90% marks in 10+2 who have taken admission in B. Tech CSE has increased.
7	<b>Career Enhancement</b>	Trainings for latest skill development	Department of TPP takes care of trainings of students on latest skill.
		Establishing incubation centers	Department of RISE has established incubation center ACIC which provides the seed money for the startups.
		Excellent opportunities for Placements	No of companies visited has considerably improved.

		Guidance for Higher studies	Percentage of students qualifying in state/national/international level examinations like: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations has increased.
8	Industry Interaction	Formation of industry institute interaction cell	CRC Cell is working for industry institute interaction and activities.
		MoUs with industries	MOUs and Collaborations with industries have increased.
		Support for internships, visits, trainings, guest lectures	Industrial visits, trainings, guest lectures are arranged by the departments on regular basis and students also gets offer of internships from the reputed companies.
		Gap identification	Gap identification between curriculum and industry needs is done and efforts are made in the form of seminars, workshops to bridge it.
		Providing opportunities for Industry based/sponsored projects	Department of RISE conducts various activities like industry sponsored projects and other related activities.
		Providing career guidance	CRC cell is there in the institute to cater the needs of students towards career guidance and placements.
		Strengthening training & placement	TPP department is there in the institute to cater the needs of students towards training and pre-placements.
		Establishing collaborative labs / Center of Excellence	Various centers of Excellence have been established in collaboration with reputed industries in all the departments like Drone Technology, Virtual Instrumentation, Advanced Antenna and radiating System, IBM, IOT, Cyber Security etc.
9	Society/Community Engagement	Donations/ assistance in kind from institution resources/Faculty/students/other donors	Old and new clothes, shoes and other grocery items are distributed among the needy people of society on the occasion of Parivartan (College Annual Fest).
		Community and social development work	For the community upliftment and awareness, DSW and RISE department conducts various programs for community development.
		Provide vocational training /job-oriented training as per local needs at the institute	2 months vocational training /job-oriented training is arranged by the departments in the Institute itself as per local needs of the students.
		Conducting awareness camps	DSW department and NSS/NCC/UBA arranges the awareness camps on regular basis.
		Extension activities to be carried out in the neighborhood community	DSW department and NSS/NCC/UBA arranges the extension activities to be carried out in the neighborhood community on regular basis.
		Extension and outreach programs to be conducted by the institution through NSS/NCC/Unnat Bharat Abhiyan (UBA)	Every year a number of extension and outreach programs are conducted by the DSW department and NSS/NCC/UBA.
10	Internationalization	Establishment of separate International Affairs Department	Institute has a separate international Affairs Department that deals with various collaborative activities at international level.
		Emphasis on collaboration with renowned international universities	No. of Collaborations and MOUs has considerably increased.
		Exploring different exchange schemes, MoUs, collaborations/linkages for Faculty exchange, Student exchange, Internship etc.	Faculty exchange and student exchange activities have increased.
11	Accreditation	NBA and NAAC Accreditation	CSE and ECE Programs have been accredited by NBA. Institute has applied for NAAC.
12	Aim for Academic autonomy and industry-based curriculum	Autonomy	After getting NAAC accreditation, institute will apply for autonomy.
		Industry based Curriculum	After getting autonomous status, Institute will be in a position to introduce industry based curriculum to bridge the gap between industry and academics.



13	<b>Enhance Multidisciplinary courses</b>	More new Multidisciplinary Courses that address societal or global challenges that require multidisciplinary approaches to be introduced	New Courses like AI&ML, AI&DS, CSE DS, and CSE IOT have been introduced. Under the list of open electives subjects, choice of multidisciplinary subjects is floated so that students could choose as per their interest. Major and Minor degree programs are also there. Students are offered interdisciplinary add-on certification courses. Awareness on cross cutting issues like Professional Ethics, Gender, Human Values, Environment and Sustainability is created through various courses of curriculum like Business Ethics and CSR Human Values, de-addiction and Traffic Rules etc. and also through other sessions and activities conducted by Departments.
14	<b>Enhancement of Experiential, Participative, Project Based, Problem-Solving Approach based learning rather than rote memorization and Self Learning</b>	<p>Add on /Value added certification courses</p> <p>More Industrial visits</p> <p>Active participation of students in discussions, debates, and group activities</p> <p>Bloom's taxonomy mapped assignments and question papers to be given</p> <p>Group Projects</p> <p>Alumni Interaction</p> <p>Smart India Hackathon</p> <p>Institute Conferences</p> <p>Smart Class rooms</p> <p>Expert lectures</p> <p>Workshops, Industrial Visits</p> <p>Simulation software based labs</p> <p>Real time examples</p> <p>Monograms/Logo Maker</p> <p>Video lectures</p>	<p>Students and Faculty are motivated to do certification courses on various platforms like MOOC, SWAYAM, AWS, COURSERA etc. and the certification courses are on increasing trend every year.</p> <p>In order to provide the students an insight of the real working environment, workstations and plants and interact with highly trained personnel Industrial visits have been planned in every semester for all the students in the reputed industries.</p> <p>Training sessions like Group Discussion, Personal Interviews have been conducted by the TPP department on regular basis Also students have been groomed during Mentoring and Professional Development Laboratory sessions that are included in their curriculum.</p> <p>Regular practice of including Bloom's Levels and its mapping with questions in the assignments and MST question papers have been followed, which are further checked by the departmental IQAC coordinator also.</p> <p>Mini, Minor and Major Group Projects (Hardware as well as Software) have been made by the students as a part of their curriculum Students are also motivated to participate in project competitions like Hackathons and Ideathons.</p> <p>Alumni meet has been conducted on yearly basis in an attempt to reconnect our pass-out students to their alma mater as well as strengthen bonds within the community.</p> <p>Smart India Hackathon is hosted by the institute students are encouraged to participate in them.</p> <p>Conferences are organized in the institute Students are encouraged to participate in them.</p> <p>Each department is equipped with a smart classroom in order to enhance the teaching and learning process for both the teachers and the students by inculcating audio, video, animations, images, multimedia etc.</p> <p>CEC-CGC arranges various expert lectures from industries and academia for students and faculties. The expert lectures gives an insight of the current industry trends which leads to development of students to become competent professionals.</p> <p>Arranged by the departments on regular basis as per the needs of the students.</p> <p>Departments have been using simulation based softwares like MATLAB, AUTOCAD, ANSYS etc.</p> <p>Center of Excellence are providing the real time implementation of the processes.</p> <p>Softwares are there in the departments to do the same.</p> <p>Video lectures with animations on popular and trending topics of many CEC-CGC faculty have been recorded in the Smart classrooms and branding studio and are available on YouTube.</p>

		Animated Lectures	Faculty has developed the animated lectures for enhancing the learning of students.
		Self-Learning	Students are encouraged for self-learning through digital library, video lectures of MOOC, Swayam and other good certification programs etc.
15	Start ups	Startup policy	Startup policy has been formulated. Various Startups are running under ACIC RISE.
		Incubation Center	Atal Community Innovation Centre (ACIC) RISE has been established to nurture Innovation and Entrepreneurship culture.
		Seed Funding and other support to promising start-ups initiated by students	Support is given for new startups.
		More Industry Tie-ups	No of MOUs and collaborations with industries have increased.
		Pitching Competitions or Hackathons	Hackathons are hosted and students are encouraged to participate in them.
16	Holistic Development	Emphasis on overall grooming of students	In the form of mentoring at CC level, training and placement related assistance at TPP and CRC level, students' participation in club activities of various clubs level, every efforts is made for the overall grooming of the students.
		Academic Excellence	Results are improving continuously.
		Good infrastructure	Well-equipped labs, smart class rooms, gym, well-furnished boys' and girls' hostels, fully ac auditorium.
		Research and Innovation	Students are encouraged to participate in various activities like publications, patents etc.
		Extra-Curricular Activities	Various technical and non-technical events are conducted for students.
		Sports	Sports activities and medals have increased.
		More Industrial Exposure	Industrial Visits, industry internships and sessions from industry experts are conducted for students.
		Entrepreneurship Initiatives	Support is given for new startups.
		Soft Skills and Personality Development	TPP Department gives training for Soft Skills and Personality Development of students.
		Social Development	For the social development, department of RISE conducts the various activities in nearby villages.
		Yoga Centre	Yoga sessions are organized by the department of DSW.
17	Go Green Campus	Value Based Education	Value based education is given to the students. A course on Human values is there in the curriculum in B.Tech. CSE 4th semester.
		Energy Management and conservation	Energy audit and Green audit have been conducted, bio gas plant, solar panels, star rated ACs and LED bulbs are there in the campus.
		Waste Management	STP has been installed, waste management norms are followed in the campus.
		Water Conservation	Rain water harvesting points have been increased from two to five. Taps with sensors have been fitted.
		Eco-friendly Landscaping	No. of trees in the campus have increased, no plastic is used in the campus.
		Awareness and Education	Awareness lectures are arranged for the students on regular basis.
		Reducing Paper Usage	Electronic platforms like e-mails and Whatsapp messages are being used wherever possible, to reduce paper wastage.

		Electric vehicles	Electric vehicles like golf cart, e-rickshaws have been purchased and used in campus.
18	<b>To be in Top 100 educational institutes in India with Global Connectivity</b>	Improve NIRF and other rankings	NIRF ranking of the institute has improved.




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