



K.S.RANGASAMY COLLEGE OF TECHNOLOGY

(Autonomous)

Tiruchengode - 637 215, Namakkal, Tamil Nadu

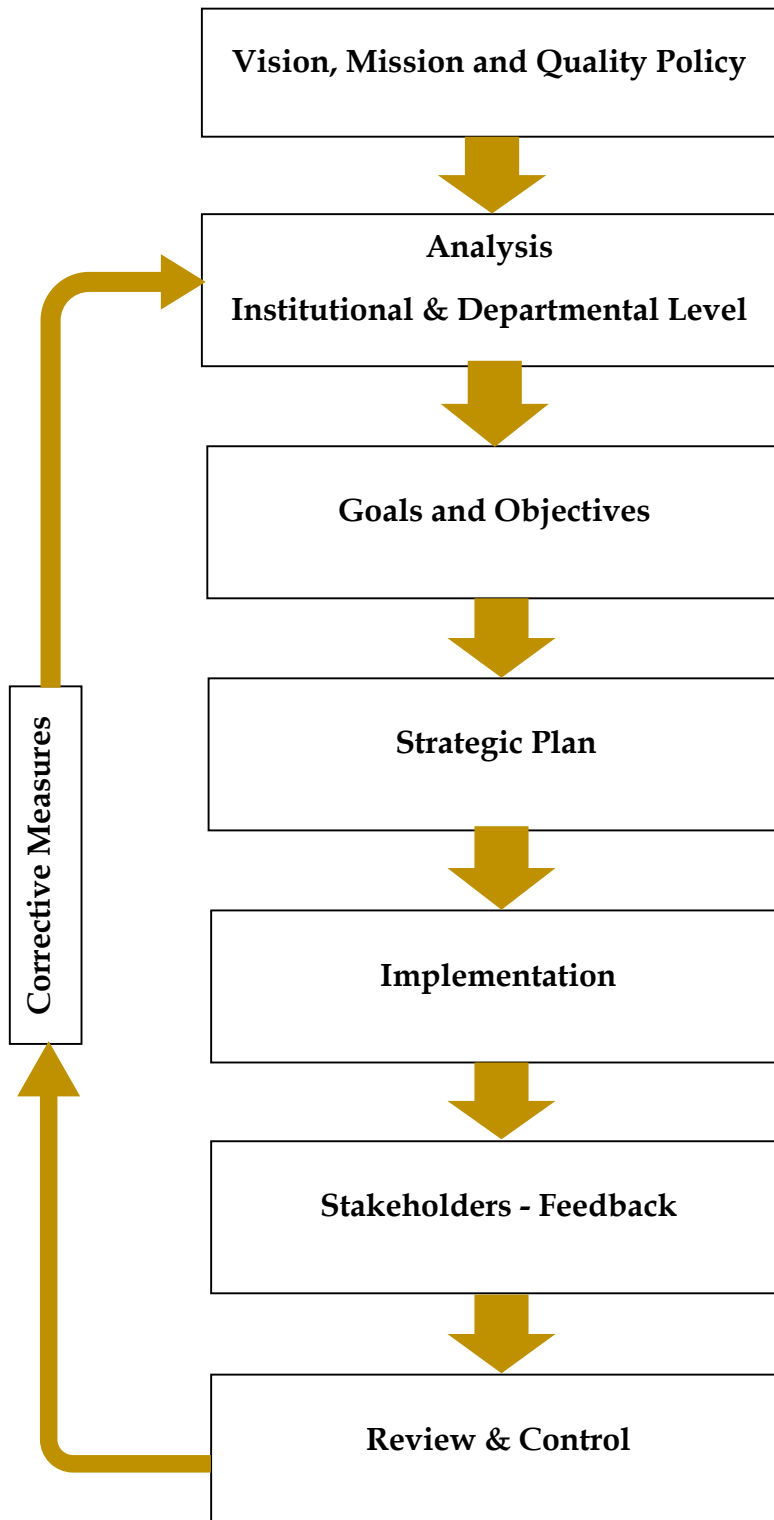
STRATEGIC PLAN

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STRATEGIC PLAN



Inception and Progress

K.S.Rangasamy College of Technology, an autonomous Institution, was established in the year 1994 under the KSR Educational and Charitable Trust by Lion Dr. K. S. Rangasamy MJF, a well-known philanthropist with a motive of providing quality education to the rural community.

KSRCT has humble beginning with 4 UG departments and at present it has 12 UG departments, 9 PG departments and 8 potential research centres under Anna University.

KSRCT has the vision to produce the most competent Scientists, Engineers, Technologists, Entrepreneurs, Managers and Researchers through quality Education. To ensure the quality, institution has taken the following steps to achieve the same.

1. Effective teaching learning process with feedback from stake holders
2. Smart and digital campus with necessary e-governance system developed by the internal faculty
3. Implemented Choice Based Credit System (CBCS) in accordance with AICTE directions and offers a number of one / two / three credit & open elective courses
4. Regular curriculum upgradation with the support of our alumni and industry collaboration
5. Activity Based Learning / Project Based Learning / Learning by doing
6. State-of-the-art laboratories for enriching practical skills and for creating an ambience for research and consultancy activities
7. High importance for the skill development by collaborating with major industries
8. Regular Faculty Development Programmes and industry training for the faculty at periodic intervals
9. Strong industry institute interaction and established many Centres of Excellence
10. Involving the students in R & D and IPR activities along with faculty
11. Eco system for Innovation, Incubation and start-ups through IIC and NISP
12. Well-connected with various funding agencies like AICTE, DRDO, DST, ICMR, CSIR, DBT, DAE, MoES and NTRF for R & D activities and funding support
13. Project to Product and Research to Revenue concepts for more product development
14. Better Alumni connect and engagement activities (One student and One alumni mentor)

Based on the above quality measures KSRCT has achieved the below and known for stamp of quality

- Accredited by NAAC twice
- 6 UG Programmes accredited by NBA under Tier-I Category
- Recognized under Section 2(f) and 12B Status by UGC
- NIRF Ranking: 99 (2017); 101-150 (2018)
- ARIIA Ranking 2021 (Excellent Band)
- DST-FIST sponsored Institution
- DBT-STAR College for 4 departments (CSE, Biotechnology, Food Technology & Physics)
- First private engineering college to offer M.Tech. - Biotech (PG programme) through GAT-B score and sponsored by DBT
- Five Star Rating (2020) by Institutions Innovation Council (IIC), Ministry of Education
- Mentor status from Institutions Innovation Council (IIC), Ministry of Education
- Anna University approved Research Centre for 8 departments
- IPR awards from Anna University twice for filing highest number of patents
- Rs.23.3 Crore Grant-in-aid received from various funding agencies to carryout research projects and to organize conferences, workshops, seminars, etc.,
- 1755 articles published in Scopus indexed journals
- H-Index of the Institution as per Scopus is 56, Google Scholar is 65 and Google i10 index is 483
- 70 patents filed and 6 patents granted along with 16 innovative products and 5 innovative processes.
- 116 Faculty members with Ph.D.
- Established Centres of Excellence (CoEs) with leading organizations namely Augusta, Aspire Systems, Automation Anywhere University, Autodesk, Enthu Technolgies, DELLEMC, ICT Academy, Oracle,

National Instruments, Sertal Automation, PTC, Virtusa, UI Path, Wipro

The establishments and achievements of KSRCT are long way of 27 years with marked research and innovations that caters societal impact. KSRCT strongly believes that science and technology should solve societal issues.

Recent Achievements (Academic year 2020-21)

- Govt. of India, DBT-PG Sponsored Institution for M.Tech. – Biotech through GAT-B score
- AICTE – IDEA Lab funding worth 1.34 crore across India among 49 Institution awardees
- Ranked second at National level in ICT Academy’s Learnathon 2020
- Toycathon 2021 winner – Team EPIC war
- New code of education runner up Institution
- Establishment of CoE for Design with the support of Autodesk
- ARIIA Ranking – Excellent Band
- District Green Champion from MGNCRE for sustainability
- One of our students Mr.Rajkumar, MBA selected to play for TNPL

Vision of the Institution

To produce the most competent Scientists, Engineers, Technologists, Entrepreneurs, Managers and Researchers through quality Education

Mission of the Institution

To achieve academic excellence in Science, Engineering, Technology, Management and Research through objective and innovative teaching methods; dedicated and duty conscious faculty; continual and consistent updating of facilities; welfare and quality improvement of the faculty and a system of continual process improvement

Quality Policy

We, at K.S.R, shall strive hard continuously to achieve academic excellence in Science, Engineering, Technology, Management and Research (SETMR) and to produce the most competent Scientists, Engineers, Entrepreneurs, Managers and Researchers (SEEMR) through objective and innovative teaching methods, dedicated and duty conscious and consistent updation of facilities, welfare and quality improvement of the faculty and a system of continuous process improvement.

Value System and Core Principles

The ethos of the Institution lies impregnated with the beliefs, values, responsibility, accountability and societal welfare by inculcating all these life-enriching standards to the end users along with the dissemination of education and other accompaniments.

The Institution believes strongly on the following seven guiding principles:

1. Empowerment of Members of Faculty and Staff

The members of faculty and staff are the rudders that play a steering force in making the Institution progress academically. Their synergy works with the empowerment by the welfare measures such as working ambience, pedagogical updation, opportunities to showcase their technical acumen in conference presentations and publications, infrastructure support for research/consultancy activities and financial support for start-ups.

2. Student-Centered Measures

Education is not a single accompaniment for a student to get from an academic institution, but he/she has to serve the society and stakeholders with their attitude and self-righteousness coupled with the academics. The Institution offers such an enriched experience to the students irrespective of the diversity nature of the learners.

3. Incubating Leadership Skills and Professional Ethics

The Institution facilitates an arena for events and activities, where the students can exhibit their leadership qualities, and ethical principles in showcasing their talents and skills. These qualities are perceptible in their participation in project exhibitions, hackathon, codeathon, toyathon, design contests, sports and games.

4. Resource and Finance Management

The Management provides the required resources and finance for the ebullient progress of the academics, research facilities, centres of excellence. Apart from this, management is magnanimously providing financial support to the faculty

and students for their research and product development. Also, establishing new and state of the art laboratories as and when required.

5. Commitment to Quality Standards

The Institution strives for facilitating quality education to the students with its massive infrastructure and updated curricula/syllabi based on the expectations of the industry.

6. Value Proposition

The value proposition that the Institution extends assurance to the parents about their wards' ethics, human values and social responsibility along with career prospects and life standards towards greater reputation. The Institution also motivates the students towards the sustainability and one such initiative is '*One Student One Tree*'.

7. Institutional Social Responsibility

The Institutional Social Responsibility is engaging in various outreach activities which supports the local women, general public and society. Apart from this institute offers various educational scholarships for the needy students hailing rural background, free education and concessions in tuition fees for meritorious and economically weaker students. The start of vibrant social service group, Social Media (SM) Volunteers and their outreach services and awareness campaigns to the needy people in the neighbouring villages reinforces the Institutional Social Responsibility.

Long Term Goals (2021-2026)**1. Provision of Modernized Infrastructural Facility**

- Establishing infrastructure that are conducive for carrying out R&D activities
- Existing infrastructure to be re-oriented for being in line with new standards

2. Facilitation more Centres of Excellence / MoUs

- Creation of at least 2 CoEs per department by tapping the resources and expertise in each domain clusters
- Signing 2 MoUs per semester per department with relevant companies to support the academic and students development (internship/placement)

3. Having 70% - 75% PhD Qualified Faculty

- Encourage faculty to pursue PhD
- Urging doctorates to obtain research supervisorship
- Recruiting faculty with doctorate and having industry exposure in their field of specialization
- Motivate the existing faculty/research scholars to complete the Ph.D with in stipulated time

4. Establishment of Technology Business Incubator

- Establish technology business incubator to benefit the students, faculty, alumni, women and rural youth in the region, which leverages Entrepreneurship in Agro and food Products
- Ideation contests and business plan competitions to conducted
- Facilitating students / Faculty / Alumni to opt for Start-ups
- Exposure will be given to visit companies and industries for product development
- Necessary space and financial support will be provided for start-up opportunities in the Technological Business Incubator

- Materializing Business Ideas into products by allocating suitable mentors
- 12 products per year and 7 start-ups per year

5. Establishment of Centre for Skill Development

- Establishing Centre for Skill Development (CSD) to develop the best skilled manpower for the industry
- Each department will have minimum of 3 skills of relevant domain
- This may be treated as value added course and any department students can avail this facility
- Necessary LMS for tapping the digital learning, e-learning solutions and interactive sessions for the enrichment of skills through online

6. Collaborating with foreign / national Institutions of higher learning and research

- Collaborating with reputed foreign universities / institutions for research, publications and conferences
- Creating avenues for faculty / students exchange programmes
- Tapping research projects from foreign universities / institutions

7. Establishing many Collaborative Laboratories with Industries

- All laboratories should be capable of obtaining 75% of industry support / sponsorship
- Create experiential learning opportunities with the provision of live industry projects and case studies
- Tapping at least 2 real time projects / consultancy work per department from the industry

8. Empowering faculty

- Towards Quality Research, consultancy and entrepreneurial culture
- Support system to upskill the faculty as per the industry standards and seed money for their research projects and product development
- Rewards for the outperforming faculty
- One publication per semester and one IPR per year

9. Ranking and Accreditation

- To be listed in the top 200 in NIRF ranking
- A++ in NAAC, NBA for all eligible UG programmes and 2 PG programmes namely Biotechnology, Industrial Safety Engineering.

10. Interdisciplinary Research Focus

- Encourage the departments to participate and come out with projects in collaboration with other departments
- Identifying societal problems and providing the best solution with the involvement of at-least 3 to 5 departments
- # of IPR per year 25, # of consultancy activity per department is 5 and 3.5 Lakhs to 4.0 Lakhs revenue generation, Funding proposal to be submitted per year worth of Rs. 3.0 crore and at least 50 lakhs funding per year has to be received from funding agencies.

Short Term Goals (2021-2023)**1. Reinforcing the Campus Facilities and Support Systems**

- Establishing new laboratories to stay relevant in future technologies
- Online access to materials on website so as to increase library resources
- To increase the internet bandwidth for speedy data transactions and increased continuous utilization of online to entire campus

2. Improve Teaching Learning Process

- Learning by doing and project-based learning to given impetus
- Effective usage of Smart classrooms for better experiential learning
- Introduction of Lecture Capturing System (LCS) for creating recorded videos for future usage and especially for virtual self-paced learning for students
- Making avenues for blended learning and flipped classrooms for productive understanding of the students

3. Enhance the output in Research and Consultancy

- To enhance the quality of research publications by faculty
- Emphasis on external funded research projects
- Research with international collaborations
- Augmenting industry sponsored R&D projects
- Increasing consultancy projects

4. Introduction of new UG and PG programmes

- Planning to offer interdisciplinary programmes
- Devising feasibility to introduce new UG Programmes such as Artificial Intelligence and Machine Learning, and PG programme – M.Tech. - Cyber Security and M.Tech. – Machine Learning

5. Development of New Curriculum as per NEP 2020

- New curriculum and syllabi have to be framed for Regulations 2022
- Introducing foreign languages as electives in the first year
- Introducing Minor degree

6. Fostering Creativity and innovation

- Establish AICTE IDEA Lab and transform ideas to products by tapping both students inside the Institution and outside the campus
- Encourage students to opt for start-ups in the TBI
- Motivate both faculty and students for applying for patent

7. Organizing International Conferences

- Organizing International conferences in collaboration with foreign universities

8. Enhance Industry Institution Collaboration

- Inviting industry experts to mentor and review the projects of the students
- Industries are invited to find openings in research and innovative projects
- Facilitating industry connect by inviting the resource persons / subject matter experts as project evaluators

9. Enhancement of E-Governance

- Enhance metrics to reach 100 % automation of College Management System (CMS)

10. Enhance the existing academic system

- Enhance the academic system as robust which can elevate students to outperform in the design contest, hackathons, skill competitions, etc.,
- More core placements and at least 10% placements in high paid product companies.