



## STRATEGIC PLAN OF THE INSTITUTE 2020-25

Kakatiya Institute of Technology & Science, Warangal (KITSW), established in 1980 by Ekasila Education Society (EES), Warangal, a philanthropic society, with a primary objective of providing quality technical education in the backward region of telangana. The institute was inaugurated by former Prime Minister of India, late Sri P.V.Narsimha Rao garu. Capt.V.Lakshmikantha Rao garu, Member of Parliament (RS), is the guiding spirit of this Institute since its inception as the Secretary & Correspondent. Over the years, it has been attracting academicians of proven competence on to its faculty team, meritorious students and augmenting infrastructural facilities.

KITSW is approved by the AICTE, New Delhi and recognized by the UGC under section 2(f) and 12(b) of UGC Act 1956. The UGC, New Delhi granted autonomous status in 2014 under Kakatiya University, (KU), Warangal. It is accredited by NAAC with A Grade (CGPA:3.21/4.0). The Government of India's NIRF 2021 placed KITSW in 197<sup>th</sup> Rank. The Ministry of MSME, Government of India recognized KITSW as host Institute to setup Business Incubator. The AICTE-CII Survey of Industry linked Technical Institutes Ranked KITSW as GOLD CATEGORY Institute for the 6<sup>th</sup> consecutive year since 2015. The Industry Institute Interaction Cell of the Institute has collaboration and MoU with NIT, Warangal in the areas of Teaching and Learning, Research & Development and also with leading industries for student internships & placements.

At present, KITSW is offering UG in 10 branches of Engineering, PG in 7 engineering specializations and MBA. The Kakatiya University, Warangal recognized the Departments of Civil Engg, Mechanical Engg, Electronics & Instrumentation Engg, and Computer Science & Engg as research centers for Ph.D Programmes. All the eligible UG engineering programmes have active accreditation status granted by the NBA, New Delhi. The Institute at present has 282 faculty (with doctorates from IITs, NITs and Overseas Universities), 127 Technical & Supporting Staff, 4248 UG Students and 310 PG Students.

In the last 2-3 years, it has been observed that

1. Some seats in some branches are remaining vacant
2. Number of top rankers joining this institute: The figures are not encouraging
3. Attracting students from across the country: The figures are almost nil
4. Faculty research: The quality of research and publications to be improved a lot

In fact, there is a fierce competition in every aspect to attract admissions and build image with respect to academics and placements. To sustain the competition and be in the list of reputed institutes of the country, attracting rankers from across the country, we have decided to focus on proper strategic planning aiming at planned development and growth of the institute. To address the above issues, deliberations with the stake holders revealed the following key points

- Imparting quality education and
- Producing industry- ready engineers

## STRATEGIC PLAN 2020-2025

**In the next five years, we will focus our work in four areas,** to ensure imparting quality education and creating industry-ready engineers.

### Areas of Focus:

1. Outcome based education is to be implemented in its true spirit
2. Faculty should take up quality research and publish in quality journals and work for IPRs
3. Faculty should integrate their research expertise in course teaching
4. Expose students to innovation, incubation, research and entrepreneurial activities and make them life-long learners

## Implementation

S.No	Focused areas of strategic plan	Action plan
1	Outcome based education is to be implemented in its true spirit	<ul style="list-style-type: none"> <li>• For effective implementation of OBE, creating a web portal for outcome based curriculum design and teaching-learning process. <i>A portal similar to the one at IIT kharagpur</i></li> <li>• Feedback from Industry experts for continuous improvement in curriculum development and content delivery               <ul style="list-style-type: none"> <li>▪ <b>CourseWeb</b> portal at KITSW is an initial beginning</li> <li>▪ <b>CourseWeb2.0</b>, a new version of CourseWeb, to help the faculty to fully design outcome based course curriculum and implement, will be released soon for even semester course work of AY 2021-22</li> </ul> </li> </ul>

2	Faculty should take up quality research and publish in quality journals and work for IPRs	<ul style="list-style-type: none"> <li>• To provide Institutional research funding to the faculty to do initial quality research and prepare quality research proposals for possible funding</li> <li>• Interaction with industry experts to work jointly on real world industry problems <ul style="list-style-type: none"> <li>• The following are initiatives <ul style="list-style-type: none"> <li>▪ Faculty research support scheme(FRSS) to convert UG projects and PG dissertations into journal papers</li> <li>▪ Faculty research incentive scheme(FRIS)</li> <li>▪ Strict implementation of academic integrity policy and plagiarism check</li> </ul> </li> </ul> </li> </ul>
3	Faculty should integrate their research expertise in course teaching	<ul style="list-style-type: none"> <li>• To include case studies, research papers, patents in course teaching</li> <li>• Course projects to be offered to the course students in faculty research areas <ul style="list-style-type: none"> <li>• The following are initiatives <ul style="list-style-type: none"> <li>▪ In URR18 and PRR20 curricula, doing course projects, summarizing course research papers, course patents by students for every course is an initial beginning</li> </ul> </li> </ul> </li> </ul>
4	Expose students to innovation, incubation, research and entrepreneurial activities and make them life-long learners	<ul style="list-style-type: none"> <li>• To establish a full-fledged innovation Incubation centre</li> <li>• Involving industry experts in course teaching and guiding student projects on industry problems</li> <li>• Involving alumni-entrepreneurs for supporting innovation eco-system &amp; start-ups <ul style="list-style-type: none"> <li>• The following are initiatives <ul style="list-style-type: none"> <li>▪ A centre for PRE at KITSW is initiated to create the culture of innovation, incubation, research and entrepreneurship among students, as initial beginning</li> <li>▪ Course teachers, in URR18 and PRR20 curricula, are integrating academic activities focusing PRE culture into their course teaching</li> </ul> </li> </ul> </li> </ul>

Each of these focused areas of strategic plan are to be implemented with SMART (Specific, Measurable, Attainable, Relevant, Time-bound) goals with measurable five-year milestones. While ambitious, all these goals are achievable and are very much necessary for planned development and growth of the institute. The plan requires specific implementation by faculty, staff, and student participants. Implementation of

strategic plan will require the ideas, efforts, and commitment of our faculty and staff, as well as input and feedback from our students. For the plan to ultimately succeed, all stakeholders of KITSW must come together and play an important role in its realization. Institute academic advisory committee (AAC) will prepare an initial implementation plan that defines metrics, estimates resource needs and propose timelines for the realization of each priority in this strategic plan.

Our strategic plan, when successfully executed, would make engineering education at KITSW, which is academically meticulous, technically rigorous, collaborative and inclusive; there by attracting rankers from across the country. And education at KITSW would prepare industry-ready students to create significant societal impact, helping to shape the society a healthier and better place to live. This will enable us to own our identity as the premier technical education institute in Telangana and one of the top technology-focused institutes in India.

## SHORT TERM GOALS

- Making **outcome based education**, the face of the institute
- Establishing full-fledged *Center for Innovation incubation Research and Entrepreneurship (I<sup>2</sup>RE)* and involving alumni-entrepreneurs for supporting innovation eco-system & start-ups
- **Collaboration with industries:** For industry relevant curriculum design, feedback on continuous improvement in curriculum design, course teaching, student internships and collaborative work on real world engineering problems
- **Collaboration with institutes of national importance:** Through these collaborations, we concentrate on areas of joint research programs, student and faculty exchange, academic assistance for doctoral research, cultural exchange and summer schools.

## LONG TERM GOALS

- **International Collaboration:** Collaboration with foreign universities in the areas of faculty research, faculty and student exchange
- Taking the institute to **Deemed to be University status**

## Our VISION

To make our students technologically superior and ethically strong by providing quality education with the help of our dedicated faculty & staff and thus improve the quality of human life

## **Our MISSION**

- To provide latest technical knowledge, analytical & practical skills, managerial competence and interactive abilities to students, so that their employability is enhanced
- To provide strong human resource base to cater to the changing needs of the industry and commerce
- To inculcate a sense of brotherhood and National Integrity

## **Our Core Values**

We value Integrity, Diversity, Excellence, Accountability and Quality....

*We teach ... we learn... we interact... we nurture... we grow responsible citizens for tomorrow...*