



TKR COLLEGE OF ENGINEERING & TECHNOLOGY

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated to JNTUH)

AN AUTONOMOUS INSTITUTION

Accredited by NBA and NAAC with 'A' Grade

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College Code: K9

3.3.1 – Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

TKR CENTRE FOR RESEARCH & INNOVATION

The eco system for innovation and creation

Vision

The vision of the idea lab at TKRCET is to tap the latent **potential** in students and faculty to make them understand the consequences of accelerating technological changes and how new technologies will play a role in the future lives of customers.

Students will be trained to capitalize on the opportunities by thinking about **novel** applications that would build an **innovative road map** and rapidly **prototype** new ideas while simultaneously encouraging a **heuristic** approach to learning.

The intension of establishing the idea lab at TKRCET is to encourage students to apply the fundamentals of science, technology engineering and mathematics to develop tools and methods that would solve challenging problems that affect the real world were traditional approaches are not effective.

TKR Centre for Research & Innovation at TKR College of Engineering & Technology intends to persuade students to be pragmatic by helping them to transform basic scientific, technological and abstract ideas to practical reality. An exclusive infrastructure with 10,000sft is established. TKR Centre for Research & Innovation will provide an Eco-System for the students to learn by doing and will support them in thinking critically, being innovative, visualizing products and developing and implementing prototypes. The Lab will serve as a cross-disciplinary and multiple stakeholders' platform to enable student entrepreneurship, collaboration with the industry and commercialization.

A few of the innumerable facilities provided by TKR Centre for Research & Innovation are

1. A platform to establish industry academia conclave.
2. A room for knowledge sharing to support the ideas of, innovations, societal needs.
3. A location for nurturing their curricular knowledge to inculcate entrepreneur's skills.
4. Rapid Prototyping Facility.

5. Ultra-Modern Measuring, Metal Joining and Cutting Facilities.
6. Induction furnace for design of materials of choice.
7. Ultra-modern facilities to cater the needs of electrical and electronics hardware assembly and testing
8. To train students to imply design and analysis of various applications using high end computing facilities.

The training given in the centre will go a long way in translating nascent ideas of students to new products and providing solutions to a plethora of technical problems. The workshops/trainings, competitions and boot camps conducted by TKR Centre for Research & Innovation and the interaction between industry- Institute and linkages among Institutes will aid in bettering confidence among the young student entrepreneurs for implementing their thoughts and Ideas. Constant mentoring and interactions with other research labs will help students to ingeniously choose raw materials and design products that will create an edge over similar products already available in the market – products that would turn out to be cost effective and environmental and user friendly. TKR Centre for Research & Innovation aims at collaborating students' activities with larger national goals and missions like serving the disadvantage sections of the society and will pave the way for students to enhance their ethical, social and cultural values

The IIC is another flat forum at TKRCET

About the IIC Institute

TKRCET:

- To promote innovation and entrepreneurship eco-system in the campus
- To train the youth as innovators and self-reliant with Industry Specific Technical, Generic and Life Coping Skills
- To provide support for start-up / entrepreneurial ventures
- To promote the holistic development of youth in terms of career goals, decision making and livelihood options

Vision / Mission of IIC

- o The Institution's Innovation Council – TKRCET - IIC consisting of **16 members**. Besides **President, Vice-President and Convener**, there are **Six Faculty-level and six student-level activity coordinators** to proceed with Innovation, Start-up, Internship, IPR, Social Media, NIRF related activities.

DEAN ACADEMICS
TKR College of Engineering & Technology
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Principal
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