



TKR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

(Sponsored by TKR Educational Society, Approved by AICTE, Affiliated by JNTUH,
Accredited by NBA & NAAC with 'A' Grade)



TKR Centre for Research and Innovation AY-2022-23

JNTUH recently accorded Research Centre for CSE Department, which was established in the new TKR Center for Research and Innovation. The following are the photographs of the facilities available (computers, high speed server) and additive manufacturing lab and also research labs for Electrical and Electronics Engineering and Electronics and Communication Engineering departments.





Additional Facilities available for R&D center

1. Center for VLSI design
2. Center for Machine Learning & Data Science
3. Additive Manufacturing Lab for Design thinking
4. PCB designing

The additional equipment's which are available in the existing laboratory will be deployed in the new TKR Center for Research and Innovation for the smooth conduction of R&D experiments. The lab is intended to create willingness to the students to make an effort and take a chance instead of assuming that their efforts won't pay off. The hands-on work culture will train them to learn from their mistakes and will make them resilient. Scientific discovery in the past clearly indicate that constant efforts trigger serendipity.

TKR Research center is a platform for the students to think and act relentlessly. Interactions in these labs not only get them the PhD degree but also orient the young students and make them entrepreneurs to tap on indigenously available raw material and create products that are cost effective, superior in quality and consumer friendly.

A Total of nine projects proposals were applied from various departments for DST CRG and SRG project grants

Recently MSME projects for a total worth of Rs. One crore were approved by the competent authority

TKR College of Engineering and Technology R&D sanctioned and on-going research projects from various Funding Agencies

Name of the Dept.	Sl. No.	Name of the Principal Investigator	Funding Agency	Title of the Project	Tenure	Amount	Status
S&H	1	Dr. B. Rajini Kanth	DST SERB NEW DELHI File No. SR/FTP/PS- 108/2009	Determination of MFIS on CoNiAl FSMA's for Sensors and Actuators	3 years	17.04L	Completed
MEC H	2	Dr. Suresh Akella/Dr. D.V. Ravishankar	TEQIP-III, JNTUH Procs. No. JNTUH/TEQ IP- III/CRS/2019 /MECH/08	Development of mobile Air conditioner with ecofriendly refrigerant 134a	1 year	3L	Completed

EEE	3	Dr. K. B. Raju, Coordinator, EEE Department	AICTE Ref No. 8024/RIFD/ MOD- 304/2010-11	EEE MODROBS	1 year	12.8 L	Completed
ECE	4	Dr. M. Girish Kumar	DST SERB NEW DELHI File No. SRG/2021/00 1392	Quality of Signal Improvement in Prominent GNRFET based ternary logic system for futuristic dielectric inserted MLGNRs for Integrated Circuit Designs	2 years	13.464L	On going
CSE	5	Dr. A. Suresh rao/Dr. B. Vishnu Vardhan	TEQIP-III, JNTUH Procs. No. JNTUH/TEQ IP- III/CRS/2019 /CSE/11	Minimallistic Approach to Predict Cardiovascular Diseases using various risk factors that go undiagnosed till advanced stages	1 year	2.6L	Completed
	6	Dr. G. Madhu/Dr. B. Sunil Srinivas	TEQIP-III, JNTUH Procs. No. JNTUH/TEQ IP- III/CRS/2019 /CSE/13	Automatic Diagnostic Model for Detection of Malaria parasites from Microscopic images	1 year	2.98 L	Completed
MEC H	7	Dr.G.Gopala Krishna Professor and B. Karthik Kumar	MSME	Smart wearables for rescuers and victims		8L	On going
MECH	8	Dr.D.V.Ravi Shankar and Perike Enosh	MSME	Unmanned surface vehicle for defense and civilian application		20L	On going