



**WELCOME**

to



## 7<sup>th</sup> IQAC Meeting

Saturday  
04.04.2026



# Agenda

## Action taken report on the proposals of 6<sup>th</sup> IQAC Meeting.

- ✓ To discuss on strengthening the **institutional ecosystem innovation, incubation, and startup development** through active faculty and student engagement, collaboration with industry, and support from the Institution's Innovation Council (IIC).
- ✓ To enhance the effectiveness, frequency, and utilization of **feedback collected from key stakeholders** - students, faculty, parents, alumni, and employers - continuous quality improvement in academic and administrative processes

## Issues open discussion

- ✓ Establishment of Research Centres and Centres of Excellence.
- ✓ Discussion on implementation of Sustainable Development Goals through research initiatives and community engagement activities
- ✓ Any other item with permission of Chairperson.

## **Action taken report on 6<sup>th</sup> IQAC Meeting**

### **Agenda#1**

- **The details of innovative models developed by students have been uploaded to the website as per suggestions of external and internal IQAC members**
- **Student innovation: Activities and outcomes Academic Year 2025-26**
- **Innovation Programmes Conducted (Jan–Mar 2026)**

### **Agenda#2**

**Progress on Feedback collected from key stakeholders**

## Number of Innovation Models developed by Students in AY-2025-26

Department	No. of innovative models uploaded in website
Civil	21
CSE	27
ECE	27
EEE	12
EIE	39
IT	29
Mechanical	23
Total	178

# Innovation Models developed by Students (AY-2025-26)

uploaded to the university website as per the suggestions of external and internal IQAC members

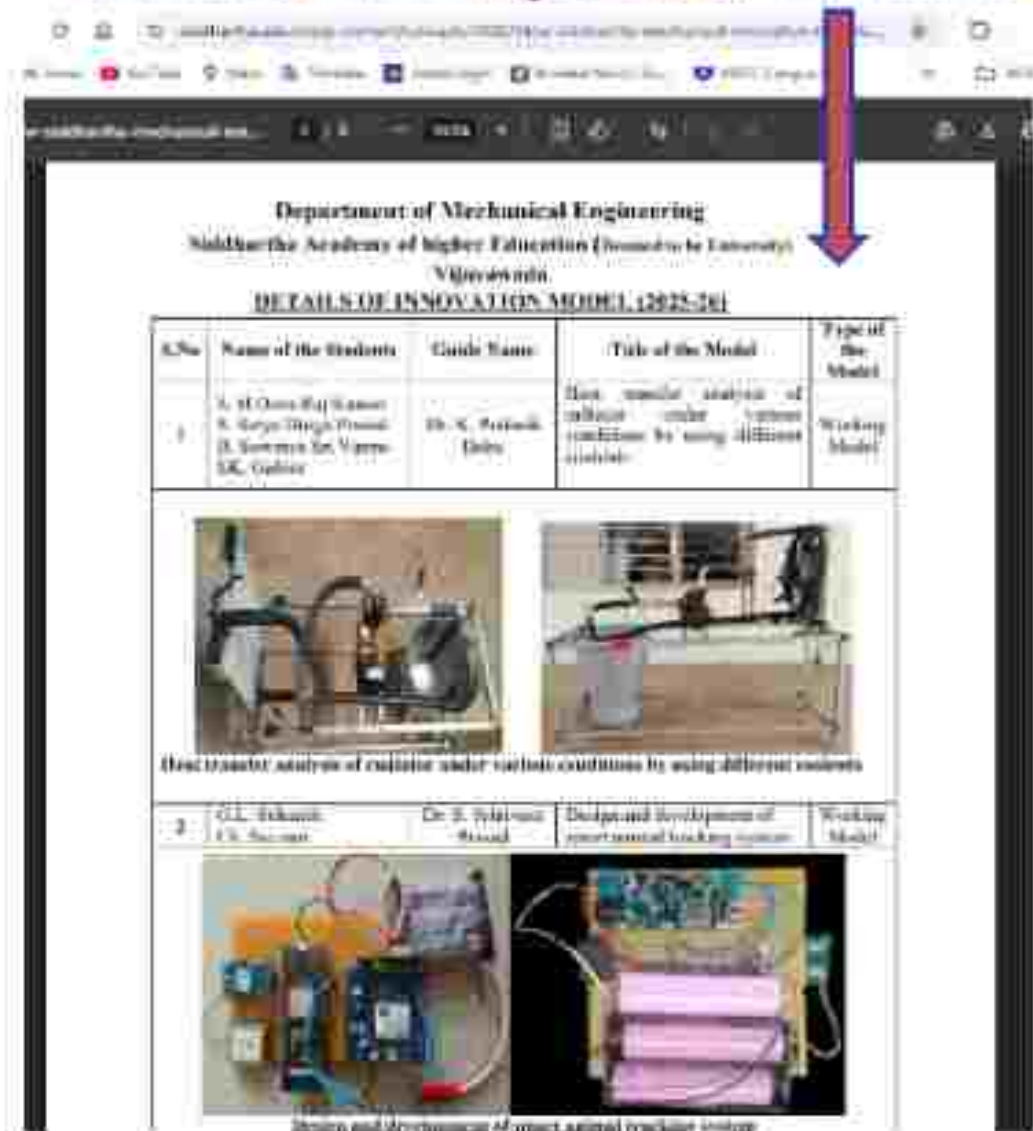
Links:

<https://siddhartha.edu.in/wp-content/uploads/2026/04/vr-siddhartha-mechanical-innovative-models.pdf>

<https://siddhartha.edu.in/wp-content/uploads/2026/04/vr-siddhartha-EIE-Innovations-2025-26.pdf>

<https://siddhartha.edu.in/wp-content/uploads/2026/04/Innovative-models-A.Y.-2025-206-vr-siddhartha-civil.pdf>

## Models description in Website



Department of Mechanical Engineering  
Siddhartha Academy of Higher Education (Autonomous University)  
Vijayawada.

**DETAILS OF INNOVATION MODEL (2025-26)**

S.No	Name of the Students	Guide Name	Title of the Model	Type of the Model
1	A. H. Omkar Raju S. Ganga Prasad B. Suresh Babu S.K. Gaurav	Dr. K. Prasad Datta	Heat transfer analysis of radiator under various conditions by using different coolants.	Working Model
2	G.L. Lakshmi E.S. Suresh	Dr. S. Srinivas Prasad	Design and development of environmental tracking system.	Working Model

*Note: The table content is partially obscured by images in the original screenshot. The images show a radiator setup for the first model and an electronic circuit for the second model.*

# Innovation Day 15th October 2025 -Student Project Model Exhibition

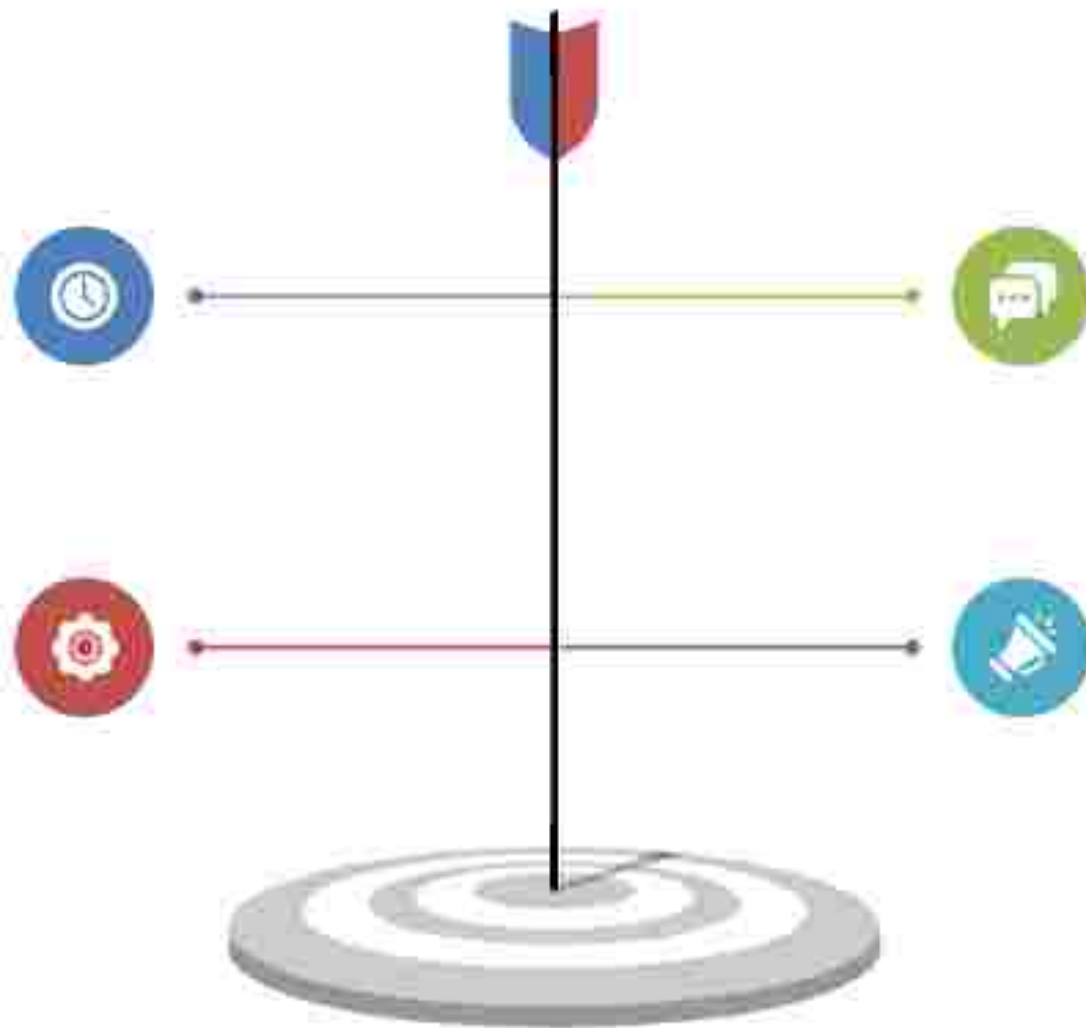


## Objective of Innovation Day is

To promote innovation culture among students by providing a platform to design, develop and exhibit creative prototypes, thereby enhancing problem-solving skills, interdisciplinary learning and research orientation.

A total of 382 models were exhibited, including 178 models from Siddhartha University and 204 models from other Institutions, showcasing wide participation and collaboration

Students' innovative skills, creativity and technical competence were effectively exposed and recognized.



The models developed by students in Siddhartha University secured multiple prizes in reputed institutions their innovative projects

Enhanced confidence, teamwork and entrepreneurial mindset among participants. Strengthened innovation culture and research-driven learning within the institution.

# NOTABLE STUDENT INNOVATIONS

01

M.Rangacharyulu of 2nd B.Tech (AI&DS), presented an innovation model - NeuroRide – a smart EEG Helmet at the Global Unicorn & AI Summit 2025 organized by International Startup Foundation at Texas University, USA

02

Avinash, Alumni of EEE Dept and C.E.O Chitti motors Pvt. Ltd, incubated at V.R Siddhartha TBI Foundation, was appreciated by Hon'ble Chief Minister Sri. Nara Chandra Babu Naidu and Tata son's Chairman, Sri.Nataranjan Chandra sekharan.

03

P. Haneesh from the Department of IT secured **1st Prize** and received a cash award of **₹3,00,000** in HackWithInfy, organized by Infosys on August ,22- 25, 2025

04

A team of III B.Tech CSE students **secured Runner-up** at the State Level and **Second Place** at the Regional Level in the Amaravati Quantum Valley Hackathon, organized by APSHE on 06-02-2026

05

P. Danush, III B.Tech student won **1st Prize** & N. Kushal Vamsi, III B.Tech student won innovation Excellence Prize in Earth and Beyond, 2025 Ideathon, at IIT Tirupathi 16-17<sup>th</sup> August 2025

# Student Achievement- MCA : Startup in AY 2025-26



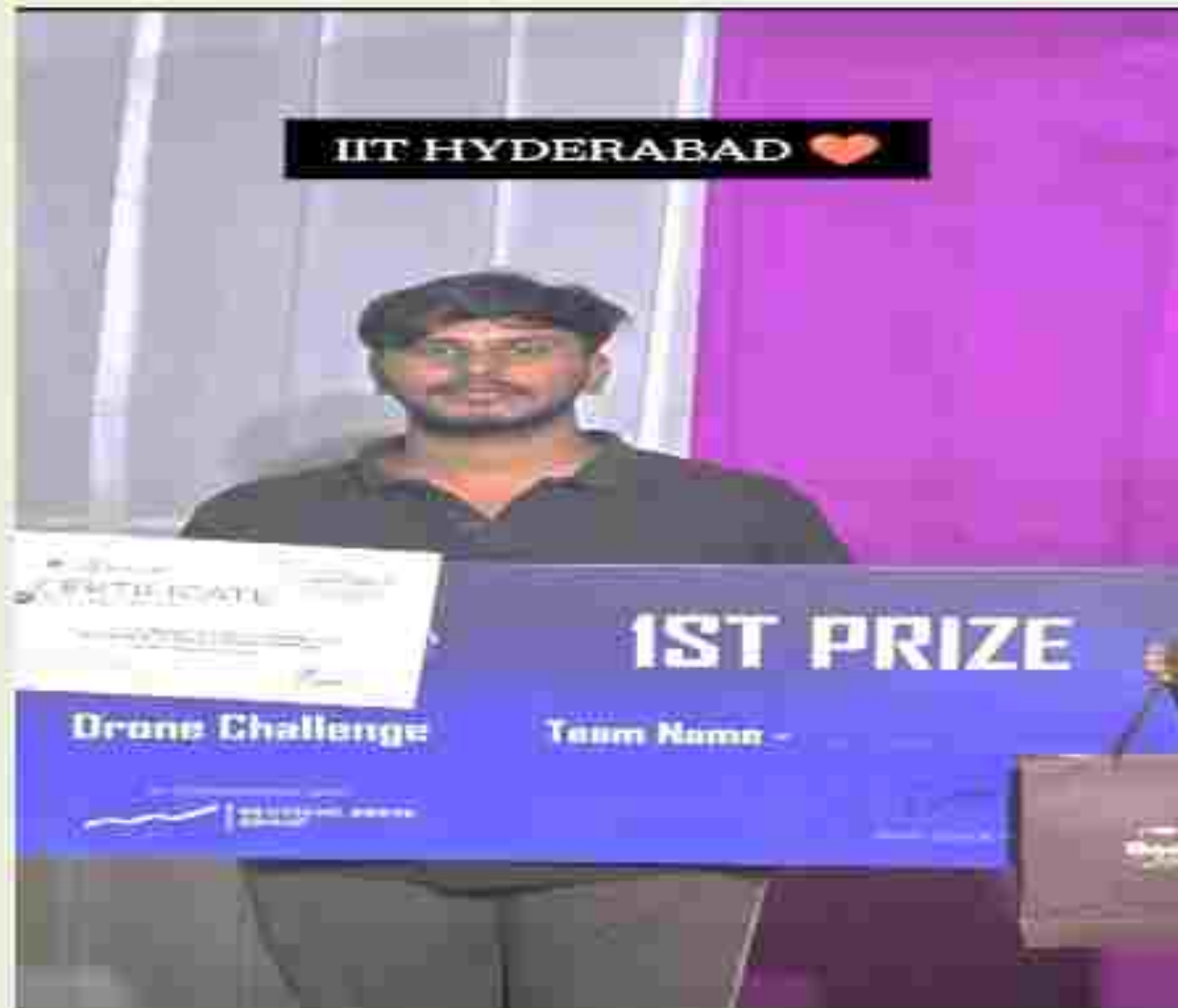
**Startup Name:** *Nibitlon Pvt. Ltd.*

Nibitlon Pvt. Ltd., founded by MCA First Year students, focuses on delivering innovative solutions in Web Development and Education Technology (EdTech)

**Student Founders:**

- Kosuri Dinesh (25SP01028)
- Tathireddy Sainath Reddy (25SP01059)
- Beesetti Prasanth (25SP01005)
- Darapureddi Jagadeesh (25SP01011)
- Mohamed Sameer Tanzeen (25SP01032)

# Student Achievements –IT



Ch. Veera Manikanta Sai Charan (Roll No: 24EU08074), [1st Prize in the Drone Challenge \(Obstacle Navigation & Object Lifting\)](#) competition held at [IIT Hyderabad](#) on 11-01-2026 and won a [cash prize of ₹30,000](#).

# Student Achievements - ECE



HANUMA Rover – Developed under PNT Lab; won multiple prizes in these **Institutions:** Siddhartha Academy of Higher Education (23-Dec-25); RVR & JC College of Engineering (27-Dec-25); QIS Engineering College (6-Feb-26)



IoT based Borewell rescue robot was developed Innovation Day 2025 & received several prizes

Prize	Institution	Date
2 <sup>nd</sup> - Rs 2000 (Shield)	RVR JC	28-Dec-25
2 <sup>nd</sup> - Rs 5,000	QIS Eng College Ongole	8-Feb-26
2 <sup>nd</sup> - Rs 2,000 (Silver Medal)	VVIT	30-OCT-25
1 <sup>st</sup> - Rs 2000 (Silver Medal)	Mechanical -SU	18-Sep-25
1- Rs.10000/-	CSE-SU	8-Aug-25)
1—Rs-2000/-	EIE- SU	20-Dec-25

## Student Achievements - ECE



4<sup>th</sup> yr Student Project model Campus Navigation Robot was selected as top 20 innovation across AP state and demonstrated the working to Honorable HRD Minister **Mr. Nara Lokesh** at JNTU Kakinada on (30-Jan-2026) on JNTU Innovation Fair 2025-26.

## Student Achievements - ECE



"Solar Powered Wireless EV Charging System"  
Secured-

1<sup>st</sup> Prize innovative and sustainable EV  
charging solution

1<sup>st</sup> Prize at Innovation Day 2025 Siddhartha  
Academy of Higher Education

Automatic Check Tray Innovative Model exhibited in  
IIC Yukthi Innovation Challenge – Regional Final  
Round at SRM University AP on 2nd December 2025

## Innovation Programmes Conducted from Jan 2026 to March 2026

Name of event	Title	No. of days/ weeks	Dates of the event	Description	Participant s	Organised Dept.
Workshop	Applied Design Thinking & Innovation	2 Week	23rd March-3rd April	Resource Person : Krishna Raj, Founder, Dot Sphere, NIFT Alumnus	60	CSE
Outreach program	Innovation & Entrepreneurship Outreach program in schools	1	2/3/2026	Dr.B Srinivas Assistant Professor, MCA,SU	42	MCA
Field visit	Field/Exposure Visit to PreIncubation Units	1	28/01/2026	Dr. R V H Prasad Assistant Professor, ECE	20	ECE
Expert Talk	Technology Readiness Level (TRL), MRL, IRL, IP Commercialization, Tech-Transfer	1	27/02/2026	Dr. T Naveen Kumar Asst. Professor, EEE	26	EEE
Expert Talk	Bridging Ideas to Implementation: Concept Development and Validation	1	04/03/2026	Dr. T Naveen Kumar Asst. Professor, EEE	42	EEE

## Innovation Programmes Conducted from Jan 2026 to March 2026

Name of event	Title	No. of days	Dates of the event	Description	Participants	Organised Dept.
EPICS DAY 2025	Innovative Project Exhibition	1	09/01/2026	Resource Person : Dr Gopi krishna, CEO Apir2, Innovarsity	182 Projects	CSE
Ideathon - SUPRAGNA 2026	Innovative ideas Exhibition	1	20/02/2026	Resource Person : Aloor Chinmaya Sai Ganesh, Head Investor Alliances, IBSEA	122	CSE
Design Thinking develop and present a functional AI-driven prototype or proof of concept (POC)	AI & Innovation Sprints: Rapid Prototyping Digital Transformation	1	07/02/2026	Resource Person : KATURI SREE HARSHA, managing director, Katuri Sculptures, Tenali	92	ME
Idea Competition	Engineer to Entrepreneur	1	14/02/2026	-	46	ME
Model Exhibition & Demo	Validation and Concept development - Demo on Prototype of Cement Factory	1	24/01/2026	Resource Person :Shri Stalin Babu , retired employee of KCP Cement Factory	210	CE

# Innovation Outcome: Patent Analysis



**A.Y. 2025-26**

Total Patents **Filed**

**31**

Total Patents **Published**

**64**

Patents **Granted**

**7**

**TOTAL**

Total Patents **Filed**

**480**

Total Patents **Published**

**447**

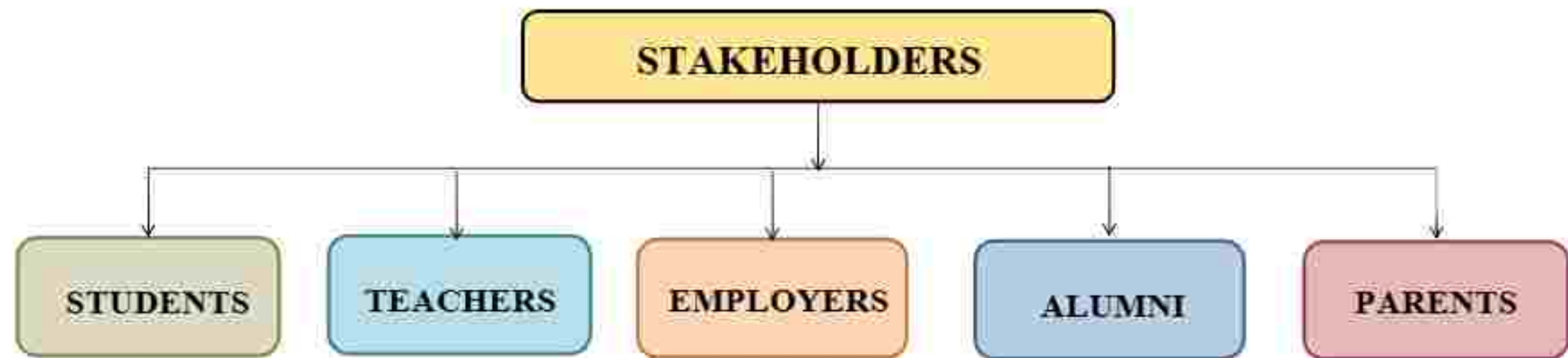
Patents **Granted**

**78**



## ✓ Action taken report on the Agenda #2 of 6th IQAC Meeting

To enhance the effectiveness, frequency, and utilization of feedback collected from key stakeholders - **Students, Faculty, Employers, Alumni and Parents** - continuous quality improvement in academic and administrative processes



Different schools/ departments are using non-unim promas stakeholder feedback leading to inconsistencies in data collection, analysis, and reporting

# Action Taken to Streamline Stakeholder Feedback Proformas

01

## Constituted a Standardization Committee

A Stakeholder Feedback Standardization Committee comprising:

- IQAC Coordinator
- Representatives from each School/Department
- Data/Documentation Coordinator is constituted

03

## Developed Unim Feedback Proformas

Designed standardized feedback proformas all stakeholder categories in

- Alignment with revised NAAC framework (NAC) and quality indicators
- Included both quantitative and qualitative components
- Suitable online and offline modes

02

## Reviewed the Existing Proformas

The committee has:

- Collected and reviewed all the existing stakeholder feedback proformas used by various departments/schools.
- Identified common parameters, gaps, redundancies and best practices aligned with NAAC requirements.

04

## Approval and Adoption

- The standardized proformas shall be placed before Vice Chancellor approval.
- Upon approval, the proformas shall be mandated use across all Schools and Departments.

# Agenda points open for Discussion

Any other item with permission of chairperson

1



- ✓ Establishment of Research centres and Centres of Excellence



2

7th IQAC Meeting, 4<sup>th</sup> April 2026, SU

3



- ✓ Discussion on implementation of Sustainable Development Goals through research initiatives and Community Engagement activities

## **Agenda point1:** Establishment of Research Centres and Centres of Excellence

### **1. UGC (Institutions Deemed to be Universities) Regulations, 2023**

One of the **Objective** of a Deemed to be University is to focus on research and innovation by setting up

- Start-up incubation centers
- Technology development centres
- Centres in frontier areas of research
- Greater industry-academic linkages
- Inter-disciplinary research including humanities and social sciences research

### **2.Strategic goal #4 of University –Research, innovation and Extension Services**

**KPI: Establish number of Research Centres/ Centre's of Excellence ( in collaboration with Govt./ Industry/ NGOs**

**3.To Increase in research funding, publications, industry collaborations, patents, PG and PhD admissions**

**4. NBA - 7.5 criteria(20/100), NAAC 3.1.1(2/20)**

## **Agenda point1: Establishment of Research Centres and Centres of Excellence**

### **Centre of Excellence (CoE):**

An advanced hub focused on innovation, industry collaboration and delivering high-impact solutions. **(Investment: High)**

### **Research Centre:**

A dedicated unit focused on conducting specialized academic research and generating new knowledge. **(Investment: Medium)**

### **Research Lab:**

A facility equipped conducting experiments, testing and practical investigations to support research activities. **(Investment: Low)**

## **Existing Research Facilities in the University**

**Centre of Excellence: 2**

**Research Lab: 4**

## **Newly Established Research Facilities in the University**

**Research Centre-1**

**Research Lab-1**

**ME Department DST-FIST SPONSORED**  
**CENTRE OF EXCELLENCE IN COMPOSITES (58 Lakhs) Estd-2016**

**Wear Test Rig**



**Thermal Conductivity Meter**



**Impact Tester**



**Dilatometer**





**SAFETY HELMET**



**INSULATION PANEL**



**ROOF SHEET**

**AGRO WASTE based Containers**

**Research Area of CoE:**

Characterization and testing of various materials made from nature

**CoE: Utilization**

No. of faculty: 5

UG Students: 20 per year

PG students: 2

PhD students: 5

## Outcomes of Centre of Excellence in Composites ( 2016-2026)

S. No.	Parameter	Details
1	No. of M.Tech Projects	26
2	No. of B.Tech Projects	51
3	No. of Ph.D. Thesis	6
4	Consultancy (₹ Lakhs till date)	14
5	No. of Publications	78
	Journals	32
	Scopus Conference papers	46
6	Patents Published	12
7	Patents Filed	3

CENTRE OF EXCELLENCE IN CONCRETE (27.14 Lakhs) Estd-2023

Sponsored By **KCP LIMITED**



DEPARTMENT OF  
CIVIL ENGINEERING



Samples printed by Concrete 3D Printer



3D Concrete Printed Shapes



3D Concrete Printed 2BHK

3D Concrete Printed Bus Stop Section



3D Concrete Printed Chair

<b>Outcome of CoE</b>	
<b>No. of M. Tech Projects</b>	2
<b>No. of B. Tech Projects</b>	6
<b>No. of Ph.D. Thesis :On-going</b>	2
<b>No. of Publications</b>	4
<b>Journals Published</b>	1
<b>Conference papers</b>	3
<b>Patents Filed</b>	1
<b>Patents Published</b>	1

# CE-Geosynthetics and Rock Mechanics Laboratory



In-plane permeability  
(Transmissivity)  
of Geotextile

Estd: 2017  
Equipment cost: 11 Lakhs  
Outcome:  
M. Tech Projects: 15  
B Tech Projects: 10  
PhD Thesis: 1(ongoing)  
Consultancy till Date:  
5 Lakhs  
Publications: 5  
patent published-1

**Tested geosynthetics**



Thickness of  
Geosynthetics



Tensile strength of synthetics  
from CBR Test



Impact Strength of Geotextile  
(Dynamic puncture strength Test)



Cross-plane permeability  
(Permittivity) of Geotextile

**ECE-Micro/Nano Fabrication Lab (27 Lakhs, Estd:2021) funded by Board of Research in Nuclear sciences(BRNS), Mumbai**



**Ultra sonication**



**Muffle Furnace**



**Micro scope**



**Lab Freezer**



**UV Chamber**



**Gas Purification**

# **ECE:Micro/Nano Fabrication Facility(27 Lakhs,2021)**



**Centrifuge Machine**



**Magnetic Stirrer**



**Gas Sensing Setup**

## **Outcome**

- Jr. Publications: 10**
- Conference papers:4**
- PhD Thesis:02 (ongoing)**
- M.Tech Projects:4**
- B Tech Projects:10**



**Glove Box**



**Thermal Evaporation**

# EEE -Research Lab: EV Laboratory



**Battery charge Discharge Tester**



**EV three wheeler setup**



**EV four wheeler setup**



**Model based Multicell BMS Software Development Board**

**Estd: 2024**

**Equipment cost: 20 Lakhs**

**Outcome:**

**B Tech Projects: 03**

**Publications: 7**

**Journals- 2**

**Conferences - 4**

**Book Chapter - 1**

# EIE: Advanced Instrumentation and Industrial Automation Lab (80 Lakhs)

Estd: AY 2017-18 Sponsored by



**Multi Tank Multi Process Station using DCS**

**LabVIEW based Equipment**

**Outcome**

**B Tech Projects: 12**

**No. Publications: 10**

## Newly Established RESEARCH LAB

ADVANCED 3D PRINTING LABORATORY (> 1 Crore)

Estd- AY 2025-26

Sponsored By Mr. Sajja Kishore babu (Alumni),  
M/s Power Mech Foundations, Vijayawada.



**DED METAL 3D PRINTER**



**DED Printing Process  
(Directed Energy Deposition)**

**Outcome: B-Tech Projects Completed-3**

## Newly Established RESEARCH CENTRE

RESEARCH CENTRE : K. V. Rao Centre Cyber Security & Digital ensics (Rs.1.4 Crore) Estd- AY 2025-

26

Sponsored By Kakinada Seaports Ltd.



**Research Area : Cyber security, digital investigation & ensic analysis**

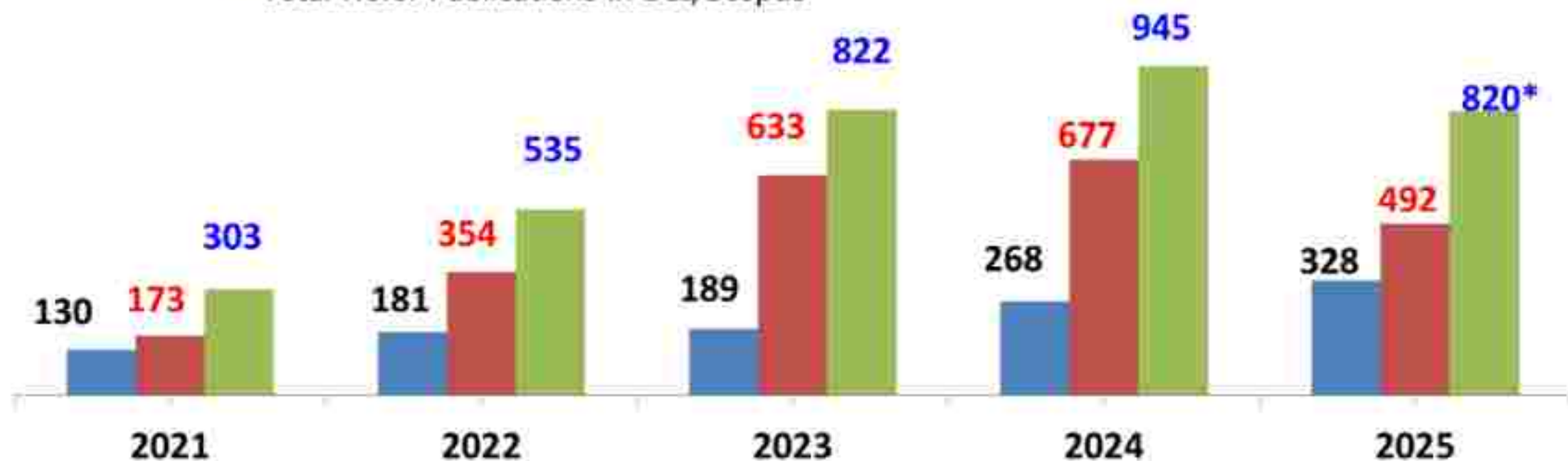
## Research Publications (SCI/SCOPUS):

Total Publications - 4810

C.Y 2025 - 820

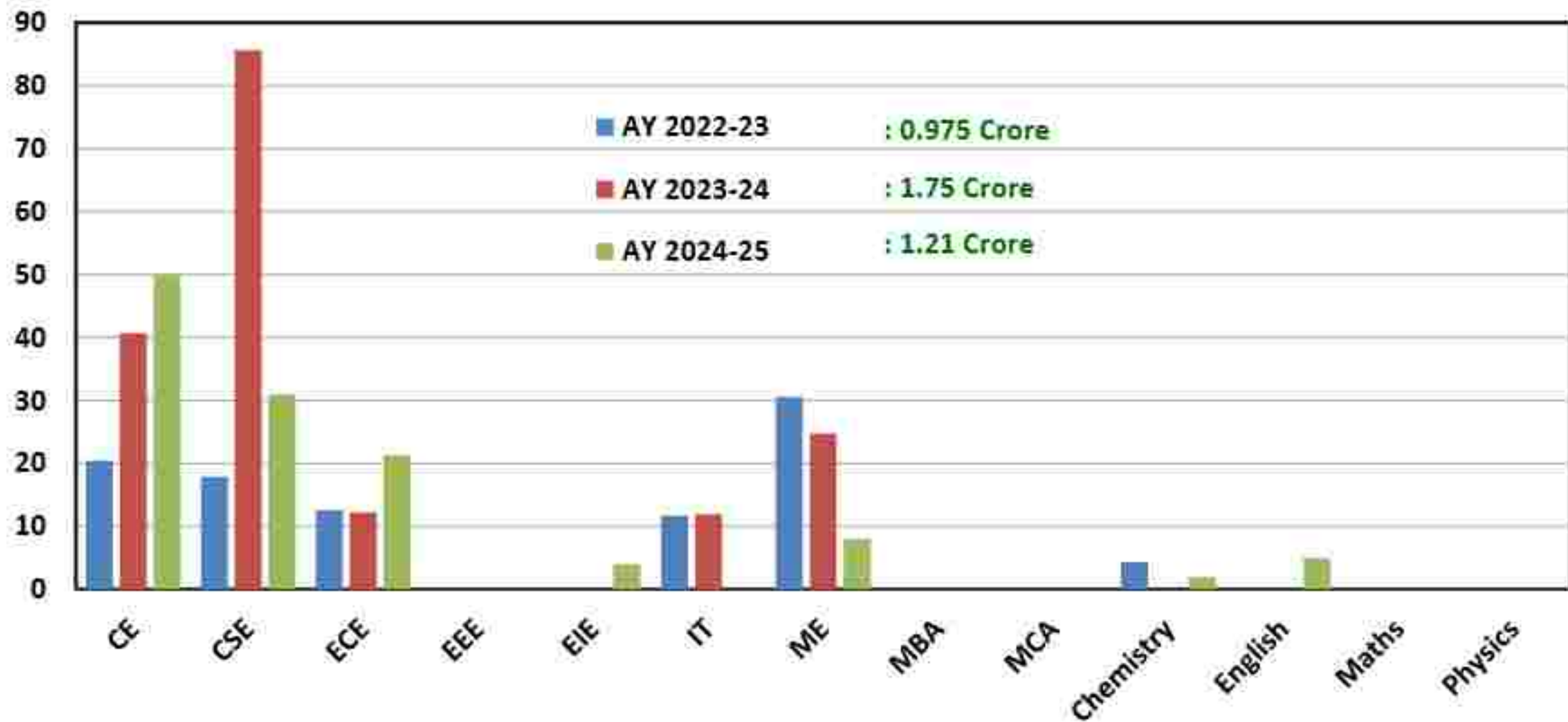
H Index - 58

- No. of Journal Papers
- No. of Conference Papers
- Total No. of Publications in SCI/Scopus

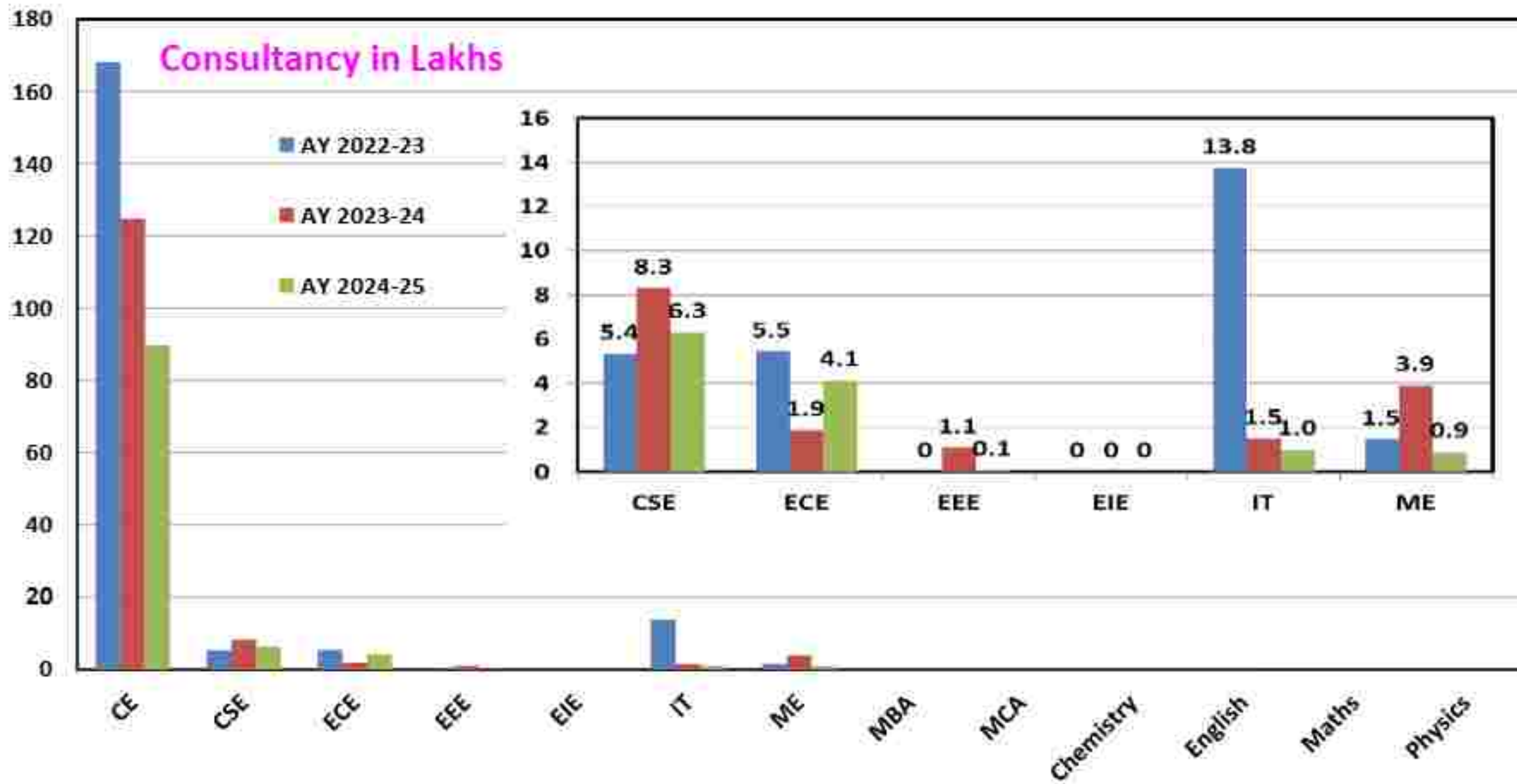


\* Some more will be added in 2026

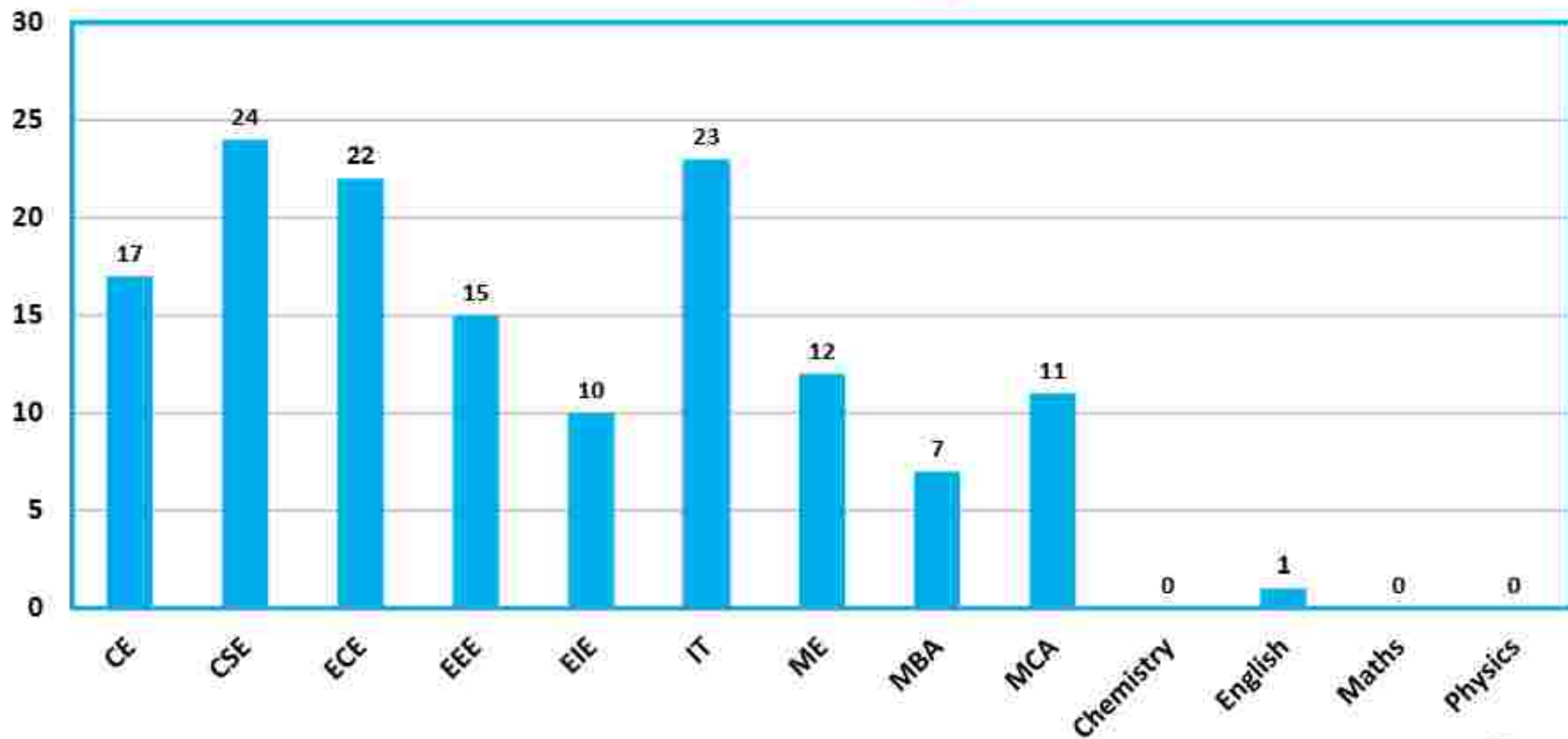
## Research Project Sanctioned amount in Lakhs



**No. of PhD Students Admitted : 112, FT-13, PT-99**



Number of functional MoUs with Institutions/ Industries : 142



## Proposed Centres of Excellence & Research Centres

Department	Area1	Area2	Area3	Research centre1	Research centre2
CE	CoE in Water Resources & Environmental Engineering	CoE in Sustainable & Smart Infrastructure	CoE in in Climate Change and Disaster Management	Structural Engineering & Smart Infrastructure	Transportation & Urban Infrastructure
CSE/IT/AI/ML/AIDS	CoE in Intelligent Systems & Future Computing	CoE in Geospatial Technologies & Remote Sensing	CoE in AI Agriculture & Healthcare Systems	Intelligent Algorithms and Autonomous Systems	AI-Driven Solutions & Applications
ECE/EIE	CoE in VLSI Design & Semiconductor Technology	CoE in Embedded Systems & IoT Technologies	CoE in Advanced Communication Systems	Signal Processing & Intelligent Systems	Sensors, Instrumentation & Smart Systems
EEE	CoE in Electric Mobility & Energy Storage Systems	CoE in Renewable Energy & Power Electronics	CoE in Smart Power Systems & Smart Grids	Electrical Machines, Drives & Control Systems	Power Electronics & Intelligent Control Systems
ME	CoE in Sustainable Energy Systems & Technologies	CoE in Automation, Robotics & Intelligent Systems	CoE in Engineering Design, Development & Experimental Analysis	AI-Driven Autonomous Vehicle and Fuel Characterization Lab	Functional Materials & Smart Systems

## Strategic Plan Establishment of Centres of Excellence & Research Centres

<b>Strategy</b>	<b>Action to be taken</b>
Identify department-wise thrust areas based on existing strengths of the departments	All Departments and Schools shall identify thrust areas by leveraging their existing strengths to establish Research Labs, Research Centres, and Centres of Excellence (CoEs). The departments shall submit the identified thrust areas to the R&D Cell by April 15, 2026
Establish a Central Research & Analytical Instrumentation Laboratory	The Science and Humanities department will collaboratively explore funding opportunities from various agencies and a strategic plan will be submitted to R&D cell by 30th April 2026.
Upgrade existing labs into Centres of Excellence (COEs) with advanced equipment or Develop one new CoEs through collaborative initiatives or from funding sources or Establishment of Research Centres	Proposed by IQAC: ECE, IT, EEE, EIE and Civil Proposals will be submitted by each department to R&D cell by 30 <sup>th</sup> April 2026.

Funding Sources: 1.Govt. (DST, MSME, AICTE, Collaboration with government agencies, TBI), Industry Collaboration, Alumni Support, Philanthropists and foundations

## **Agenda point2: Discussion on implementation of Sustainable Development Goals through research initiatives and community engagement activities**

The 17 Sustainable Development Goals (SDGs), proposed by the United Nations in 2015, a global framework to address challenges such as poverty, inequality, climate change and environmental sustainability by 2030.

### **1. UGC (Institutions Deemed to be Universities) Regulations, 2023**

One of the **Objective** of the Deemed to be University is to Contribute social transformation through **socially responsive** teaching, learning, research and fieldwork

### **2. Strategic goal of University –Community outreach initiatives through Research and Innovation and Social service**

**3.Expected outcome:** Enhanced societal impact, improved research quality and strengthened institutional reputation through sustainable and community-driven initiatives

**4. NAAC 3.6.1(10/20): Outcome s of extension -Activities in the neighborhood community in terms of impact and sensitizing the students to social issues and holistic development**

# UN Sustainable Development Goals (SDG) Focus

- 1** No Poverty
- 2** Zero Hunger
- 3** Good Health and Well-being
- 4** Quality Education
- 5** Gender Equality
- 6** Clean Water and Sanitation
- 7** Affordable and Clean Energy
- 8** Decent Work and Economic Growth
- 9** Industry, Innovation and Infrastructure
- 10** Reduced Inequalities
- 11** Sustainable Cities and Communities
- 12** Responsible Consumption and Production
- 13** Climate Action
- 14** Life Below Water
- 15** Life on Land
- 16** Peace, Justice and Strong Institutions
- 17** Partnerships for the Goals

University focus SDG goals implementation are **3, 4, 6, 7, 9, 11 and 13**

## Funded Research Projects AY 2024-25 and 2023-24 Aligned with SDGs

SDG NO.	SDG Goal	Title of the Project	Dept.	PI	Funding agency	Amount in Lakhs	Status
11,13	Sustainable cities and Communities , Climate action	Developing Efficient Local Scale Impact Evaluation Tools Using Geospatial System To Assess National Development Mission Outcomes And SDG Goals	IT	Dr.M.Suneetha	ISRO	28	Ongoing
3	Good Health and Well-being	Design and experimental validation of a novel AI-powered artificial pancreas	IT	Dr.G.Kalyani	DST-SERB SURE	11.92	Ongoing
3	Good health and Well-being	Development of Healthcare Management System	IT	Dr S Suhasini	South Africa Providence software solutions	11.75	Completed In Ay 2024-25
9	Industry, Innovation and Infrastructure	Design and FE analysis of a composite pressure vessel	ME	Dr. V. Balakrishna Murthy	Advanced systems laboratory Hyderabad	5	Ongoing

## Funded Research Projects AY 2024-25 and 2023-24 Aligned with SDGs

SDG NO.	SDG Goal	Title of the Project	Dept.	PI	Funding agency	Amount in Lakhs	Status
9	Industry, Innovation and Infrastructure	Design and Analysis of indigenous Composite Structures	ME	Dr A V Ratna Prasad	Ramesh's Aerospace Products & services Pvt. Ltd Vijayawada	7.08	Ongoing
9	Industry, Innovation and Infrastructure	Optimization of composite stack in cylindrical section of a CPV and modelling of Interlaminar debond using FEA	ME	Dr A V Ratna Prasad	Advanced systems laboratory Hyderabad	5	Ongoing
7	Afdable and Clean energy	Studies on Mixing and Combustion of Methane-Air in the Presence of a Vortex Flow Field	ME	Dr. M Jogendra Prasad	DST-SERB	18.3	Completed in Ay 2025-26
9	Industry, Innovation and Infrastructure	Design & Finite Element Analysis of Airworthy composite container	ME	Dr. V. Balakrishna Murthy	NSTL, Visakhapatnam	9.5	Ongoing

## Funded Research Projects AY 2024-25 and 2023-24 Aligned with SDGs

SDG NO.	SDG Goal	Title of the Project	Dept.	PI	Funding agency	Amount in Lakhs	Status
9	Industry, Innovation and Infrastructure	Services Chassis Fabrication Hybrid EV four wheeler and Energy management simulation studies	EEE	Dr Dhananjay Rao	Cyber Shakthi Private Limited	2.32	Ongoing
3	Good Health and Well-being	Implementation of Characteristic Mode Analysis in Designing Miniaturized Implantable Antenna Biomedical Applications	ECE	Dr. Moirangthem Santosh Kumar Singh	ANRF	56.81	Ongoing
9	Industry, Innovation and Infrastructure	Development of Techniques Scalloping and Banding Removal in Scan-SAR	ECE	Dr. Pratap Turimerla	ISRO	19.45	Ongoing

## Funded Research Projects AY 2024-25 and 2023-24 Aligned with SDGs

SDG NO.	SDG Goal	Title of the Project	Dept.	PI	Funding agency	Amount in Lakhs	Status
6,13	6.Clean Water and Sanitation 13. Climate Action	Remote sensing of river discharge and suspended material deposits in coastal regions	CE	Dr. G. Vinay Kuma	SERB	18	Ongoing
9	Industry, Innovation and Infrastructure	Development of Edge Computing Framework: Multi-Object Detection Based on Deep Learning Techniques and Analysis Satellite In-Orbit Processing	CSE	Dr P Ramesh Kumar	ISRO	29.45	Ongoing
13	Climate Action	Impact Of Climate Change on Offshore Wind and Wave Power Potential in the India EEZ Region	CSE	Dr. M. Sobhana	IIT Kharagpur	23.22	ongoing
11	Sustainable Cities and Communities	Updating Of Very Large-Scale Urban GIS Maps with Latest Very High-Resolution Satellite Data Using Deep Learning Techniques	CSE	Dr. M. Sobhana	NRSC-ISRO	17.85	Ongoing

## Funded Research Projects AY 2024-25 and 2023-24 Aligned with SDGs

SDG NO.	SDG Goal	Title of the Project	Dept.	PI	Funding agency	Amount in Lakhs	Status
13	Climate Action	Qualitative And Quantitative Classification of Mixed Bamboo ests Using Geospatial Technology	CSE	Dr. K. Srinivas	ISRO	25.3	Ongoing
3	Good Health and Well-being	Design and experimental validation of a novel AI-powered artificial pancreas	ECE	Dr. T.Pratap/ Dr. Jasti Sateesh	SERB	11.92	Ongoing
3	Good Health and Well-being	Design and Characterization of SRAM- based Dosimeter	ECE	Dr. Naga Raghuram	SERB	18.3	Ongoing
9	Industry, Innovation and Infrastructure	Design and development of Composite Tube	ME	Dr. A. V. Ratna Prasad	HEMRL Pune	9.97	Ongoing

## CE-Consultancy research Projects aligned with SDGs

SDG Goals	Description	No. of Projects	Total Funding (₹)
SDG 9	Industry, Innovation & Infrastructure	43	71,33,004
SDG 11	Sustainable Cities & Communities	17	24,08,534
SDG 3	Good Health & Well-being	4	3,81,901
SDG 12	Responsible Consumption & Production	2	33,00,000
SDG 13	Climate Action	2	23,00,000
SDG 6	Clean Water & Sanitation	1	18,00,000
SDG 14	Life Below Water	1	18,00,000
SDG 7	Afdable & Clean Energy	1	50,150

## **Gaps in Research Projects aligned with SDGs**

- **Limited focus on SDGs 6, 7 and 13**

**SDG6: Clean water and Sanitation**

**SDG7: Affordable and clean energy**

**SDG13: Climate Action**

## Publications Aligned with SDGs

	Journals	Journals	Journals	Confere nce papers	Confere nce papers	Confere nce papers	Book Chapters	Book Chapters	Book Chapters	Patents	Patents	Patents
Dept	AY24-25	AY23-24	AY22-23	AY24-25	AY23-24	AY22-23	AY24-25	AY23-24	AY22-23	AY24-25	AY23-24	AY22-23
CE	31	16	22	11	18	32	8	10	0	5	6	10
CSE	35	45	21	82	43	27	6	7	3	9	7	8
ECE	34	36	35	72	60	66	7	16	10	10	4	10
EEE	15	15	6	12	12	12	3	2	0	3	4	8
EIE	11	13	21	49	32	51	3	1	2	7	13	7
IT	32	31	19	81	58	74	34	31	29	10	7	8
ME	3	2	4	3	2	-	-	-	-	20	7	12
MBA	2						7					
MCA	3	6	2	9	17	3	5	1	0	6	8	17
Chemistry	11	11	9	4	2	2	1	1	1	8	2	5
English	4	1	1	4	4	1	1			14	12	1
Maths	8	11	7	4	12	3		2		12	10	
Physics	12	24	13									

A substantial proportion of research publications are mapped to relevant Sustainable Development Goals (SDGs), reflecting strong alignment with global priorities

## NSS Activities organized:

### NSS Activities

AY	Outreach activities
22-23	52
23-24	80
24-25	64
<b>Total</b>	<b>196</b>

SDG	Area	Observation
SDG 3	Health & Well-being	Highest contribution (dominant)
SDG 4	Education	Good number of activities
SDG 11	Sustainable Communities	Moderate coverage
SDG 13	Climate Action	Moderate coverage
SDG 6	Clean Water	Limited but present
SDG 7	Afdable and Clean Energy	Very minimal coverage

## IQAC Action Plan Strengthening SDG Implementation

Strategy	Action to be taken
Introduce SDG-based elective courses such as Clean Energy, Climate Action, Sustainable Materials etc in SU24 regulation	At least one new SDG-focused course per department in departments where SDG-relevant courses are not offered. (Dean Academics to provide a report with targets departments by 15th April 2026)
Conduct surveys to understand local challenges and societal problems	NSS coordinator with the support of School of Management will submit the report with at least 10 societal by 30th May 2026
Implement SDG-based community outreach programs plan AY 2025-26 and AY 2026-27	Road map outreach programmes will be submitted by NSS and R&D Cell by 30 <sup>th</sup> April 2026
Strengthen Community related Projects to explore students and faculty to real world problems	HoDs and NSS/R&D cell will initiate, implement in the AY 2026-27 with quarterly monitoring by IQAC . Plan will be submitted by NSS/R&D cell by 15 <sup>th</sup> May 2026
Collaborate with government bodies and NGO's to align research with societal needs	Initiate collaborations by June 2026 and implement by September 2026 (Responsibility: HoDs, R&D Cell, IQAC, Institute innovation Council)

## IQAC Action Plan Strengthening SDG Implementation

Strategy	Action to be taken
<b>Encourage multidisciplinary teams to work on community identified problems and translational research</b>	<b>To be initiated by R&amp;D cell by the end of July and will be implemented by December 2026</b> <b>Ex: ME + CE : focus on energy and water</b> <b>CSE+ ECE focus on Smart SDG solutions</b> <b>EEE+EIE focus on automation, sustainable smart systems</b> <b>MBA: Skill development and leadership through inclusive and sustainable</b>

**Any other item with the permission of Chairperson**

Thank  
you

