



# University College of Engineering

(AUTONOMOUS)  
OSMANIA UNIVERSITY, HYDERABAD – 500 007.

Lr.No.1506/Admn/UCE/OU

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The following Academic and Research Facilities and Infrastructure Facilities are required for overall development of University College of Engineering, Osmania University. This proposal may be submitted to the Alumni of OU for their contribution /sponsorships.

## I- Academic & Research Facilities

### 1. Establishment of state of art laboratories for UG/PG/PhD Students

S.No	Title	Estimated amount in Rs.
<b>Department of BME</b>		
1	Sensors and Signal Conditioning Lab	Rs. 4.00 lakhs
2	Tri Biology – Lab	Rs. 4.00 Lakhs
3	Cell & Tissue engineering lab	Rs. 5.00 Lakhs
4	3D Doctor Software (for 3D modelling and Printing)	Rs. 15.00 Lakhs
<b>Department of Civil Engineering</b>		
1	Concrete technology Lab	Rs. 5.00 Lakhs
2	Fluid mechanics Lab	Rs. 5.00 Lakhs
3	Environmental Engineering Lab	Rs. 5.00 Lakhs
4	Transportation Engineering Lab	Rs. 5.00 Lakhs
5	Survey Lab	Rs. 5.00 Lakhs
6	Testing of material lab	Rs. 5.00 Lakhs
7	Geo technical engineering lab	Rs. 5.00 Lakhs

<b>8</b>	Engineering Geology lab	Rs. 5.00 Lakhs
<b>Department of CSE</b>		
<b>1</b>	AI Lab	Rs. 15.00 Lakhs
<b>2</b>	ML Lab	Rs. 15.00 Lakhs
<b>Department of ECE</b>		
<b>1</b>	IOT Lab	Rs. 5.00 Lakhs
<b>2</b>	Advanced Communication Lab	Rs. 5.00 Lakhs
<b>3</b>	RF & Microwave Lab	Rs. 4.00 Lakhs
<b>4</b>	VLSI & Embedded Systems	Rs. 3.00 Lakhs
<b>5</b>	Heterogeneous computing Lab	Rs. 3.00 Lakhs
<b>Department of Electrical Engg.</b>		
<b>1</b>	Altium PCB design Software	Rs. 1.00 Lakh
<b>2</b>	Tektronics: A622 AC DC Current probe/BNC	Rs. 3.00 Lakhs
<b>3</b>	TBS2104 : Digital Storage Oscilloscope:	Rs. 3.00 Lakhs
<b>4</b>	P5200A : High Voltage Probe	Rs. 3.00 Lakhs
<b>5</b>	Programmable DC Power Supply / Solar Array Simulation Model Model no : 62150H-600S	Rs. 6.00 Lakhs
<b>6</b>	Yokogawa Oscilloscope	Rs. 6.00 Lakhs
<b>7</b>	Regulated power supply: for low power GPE 4323	Rs. 3.00 Lakhs
<b>8</b>	Yokogawa Current Probes	Rs. 5.00 Lakhs
<b>9</b>	Level Shifters for Inverter Stack	Rs. 3.50 Lakhs
<b>10</b>	DSP/FPGA Development Boards	Rs. 3.50 Lakhs
<b>11</b>	Fluke Megger	Rs. 1.00 Lakh

12	PLC Lab equipment	Rs. 3.00 Lakhs
13	Codesys software for PLC	Rs. 3.00 Lakhs
14	PSCAD software	Rs. 6.00 Lakhs
15	Three phase Transmission line model for Lab	Rs. 3.00 Lakhs
<b>Department of Mechanical Engineering</b>		
1	CREO software	Rs. 5.00 Lakhs
2	Solid Works software	Rs. 5.00 Lakhs
3	ANSYS software	Rs. 5.00 Lakhs
4	Catia software	Rs. 5.00 Lakhs
5	PLC Trainer Kit with SCADA	Rs. 4.00 lakhs
6	Ultra-Liquid Nitrogen Bath (Cryogenic Heat Treatment)	Rs. 5.00 lakhs
7	FFT analyzer with accelerometers	Rs. 5.00 lakhs
8	Mechanical test bed	Rs. 5.00 lakhs
9	Model AUTODESK FUSION 360	Rs. 5.00 lakhs
10	Ultrasonic Flow meter	Rs. 1.50 lakhs
11	Probe sonicator	Rs. 3.50 lakhs
12	KD2 pro thermal conductivity meter and TR-1 Sensor	Rs. 5.00 lakhs
13	Computerized reciprocating pump test apparatus	Rs. 3.50 Lakhs
14	Reynold's Apparatus	Rs. 2.60 Lakhs
<b>College Level</b>		
1	AutoCAD software	Rs. 5.00 Lakhs
2	Mimics software	Rs. 5.00 Lakhs
3	GeoMagics Design X software	Rs. 15.00 Lakhs
4	Establishment of research lab in each department with minimum 50 capacity, with software, computer facilities.	Rs. 70.00 Lakhs

5	Sponsoring hardware kits working model in the respective laboratories.	Rs. 7.00 Lakhs Per year
6	Special Facilities for Divyang (Physically Challenged) students	Rs. 15.00 Lakhs
7	Installation and Maintenance of campus Wi-Fi for Engineering college	Rs. 50.00 Lakhs
<b>University Level</b>		
1	MATLAB software	Rs. 8.00 Lakhs per year
2	Tally software (40 users)	Rs. 4.00 Lakhs per year
3	e-office software	Rs. 8.00 Lakhs per year
<b>Diamond Jubilee Library</b>		
1	e-Journals subscription IEEE, ACS, ASME, ACM etc.	Rs. 55.00 Lakhs per year

## 2.0 Establishment of Common Engineering Facilities Center (CEFE) : A Multi-Disciplinary Center of Excellence

S.No	Title	Estimated amount in Rs.
1	<b>CEME:</b> Industry 4.0, IoT, Digital Manufacturing, Simulation, Additive Manufacturing, Electric Autonomous Vehicles, & Software and Hardware <b>Objective :</b> Student Trainings, Upskilling, Joint Research Activities, Consultancies, Joint Certification Courses with Industry	Rs. 10 Crore
2	Siemens Centre of Excellence on Medical equipment	Rs. 40 Lakhs

## II - Fellowships/ Free ships/ Incentives/ other facilities

S.No	Title	Estimated amount in Rs.
1	Institution of Scholarship/ fellowship/ internship/ stipend for UG/PG/PhD students	Rs. 5000-50000 per month
2	Institution of Gold Medals. (Onetime deposit for each Gold medal)	Rs. 5 Lakhs Per medal
3	Sponsoring Tuition fee for meritorious poor students (per students)	Rs. 35000 per year
4	Institution of Alumni Chair	Rs. 3.00 Lakhs per month
5	Financial support for Adjunct Professors for a period of 6 month/12 month/18 months	Rs. 50000 per month
6	Sponsoring of smart class rooms and blended class rooms for UG and PG students (LED Projectors, Smart benches, Lecture recording Facility and Digital Board.)	Rs. 10.00 Lakhs Per Dept.
7	Sponsoring training programs on coding, higher studies GRE/TOEEL/IELTS/GATE/ GMAT/CAT Civil services Exams	Rs. 10.00 Lakhs per year
8	Sponsoring for incubation of IDEAs in startup cell	Rs. 10.00 Lakhs per year
9	Sponsoring Endowment lecture	Rs. 2.00 Lakh per year, per Dept.
10	Sponsoring e-books/Laptops/Desktops for UG students	Rs. 10.00 Lakh
11	Modernization, Upgradation and Automation of mess & kitchen facility in hostel Mess	Rs. 15.00 lakhs Per hostel
12	Sponsoring sports material and students to attend the outside national/ International sports	Rs. 7.00 Lakhs Per year
13	Sponsoring research database access in Scopus/ Web of science/ SCI	Rs. 50.00 Lakhs Per year
14	Sponsoring of software of National/ International patent search	Rs. 10.00 Lakhs Per year
15	Sponsoring of Plagiarism search software	Rs. 15.00 Lakhs Per year
16	Sponsoring of basic Laptop/Tabs for placement online exams and interviews	Rs. 8.00 Lakhs

### III- Infrastructural Facilities

S.No	Title	Estimated amount in Rs.
1	Construction of 1000 Bedded New Girls Hostel	As per Govt. Norms
2	Construction of 1500 Bedded Boys Hostel in place of Kinnera and Ganga Hostel	As per Govt. Norms
3	200 Bedded Engineering Research Scholars Hostel.	As per Govt. Norms
4	500 bedded PG Hostel for ME/M.Tech./MCA students	As per Govt. Norms
5	Gym for Ladies Hostel: 2 Nos.	Rs. 50 Lakhs
6	Swimming Pool for Engineering College Students	Rs. 50 Lakhs
7	Gym Facilities 1 No. (200 Capacity) for boys.	Rs. 50 Lakhs
8	Seminar Hall/Conventional Hall(500 Capacity)	As per Govt. Norms
9	Creation & Maintenance of Lans, Landscape Gardens in front of college, in front of Hostels	Rs. 2.00 Lakhs per building
10	Installation and maintenance of solar streetlights for Engineering college, Departments, Hostel Premises	Rs. 2.0 Crores
11	Maintenance of CCTV Cameras	Rs. 20. Lakhs per year
12	Installation and Maintenance of safe drinking water facilities	Rs. 20.00 Lakhs per year
13	Establishment of STP (Sewerage Treatment Plants) at least 1 number	Rs. 20.0 Crores
14	Construction of Library for 1000 Capacity with minimum two floors	As per Govt. Norms
15	Construction of Indoor stadium with tennis, volleyball, badminton etc.,	Rs. 15.0 Crores
16	Lift facility for Engineering college main building (With external steel/RCC structure)	20 lakhs
17	Sponsoring Ambulances: 2no's	50 lakhs
18	Sponsoring electric mini bus to college students. (for industrial visits, field trips and educational tours, internships)	75 lakhs

Sd/-

**Prof. Sriram Venkatesh**  
**Principal, UCE, OU**