



LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

L.B.Reddy Nagar, Mylavaram -521 230, Krishna Dist., A.P.
 Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.
National MEMS Design Center (NMDC)

Details of Student Activities during the A.Y.: 2020-21

i) No.of Main Projects	:	07
ii) No.of Paper Publications	:	02
iii) PBL	:	09

MAIN PROJECTS

A.Y:2020-21		ECE-03	EIE-04
S. No	Title of the Project	Regd. No	Name of the Guide
1.	Optimization of bimorph cantilever based piezoelectric energy harvester for high efficiency	17761A04C0 17761A0469 18765A0418 18765A0424	Dr.T.Satyanarayana
2.	MODELLING And Investigation On Mixing Characteristics of T And Y-Shaped Micro mixers	17761A0471 17761A04B4 17761A0467	Mr.A.Uday Kumar
3.	Design of Dipole Aerial Using COMSOL Multi Physics	17761A04C7 17761A04F7 17761A04G8 17761A04C4	Mr.V.Ravi sekahr Reddy
4.	Modeling and optimization of electrostrictive disc for micro positioning device application	17761A1001 17761A1022 17761A1034	Dr.T.Satyanarayana
5.	Modeling and simulation of RF capacitive shunt switch	17761A1029 17761A1027 17761A1039	Mrs.G.Anusha
6.	Modeling and Analysis of Electrochemical polishing process for pharmaceutical applications	17761A1005 17761A1048 17761A1042	Dr.T.Satyanarayana
7.	Modeling of piezoacoustic transducer for sonar Applications	17761A1044 17761A1013 17761A1019	Dr.T.Satyanarayana

PAPER PUBLICATIONS

S.No	Title of the Paper	Journal, Vol., Year, Page No.	Roll No
A.Y: 2020-21			
1.	Modeling of Dielectrophoretic Separation Platelets from Red Blood Cells	Journal of Critical Reviews Vol- 7, Issue- 16, ISBN/ISSN-2394/5125, Page No- 32-39, Category- SCI/SCOPUS/UGC -SCOPUS	16761A1033 16761A1038 16761A1029
2.	Optimization of bimorph cantilever based piezoelectric energy harvester for high efficiency	Materials Today Proceedings, Vol-46, Issue (9), July-2021.	17761A04C0 17761A0469 18765A0418 18765A0424

PBL

<i>S. No</i>	<i>Title of the Problem Based Learning</i>	<i>Roll No</i>
A.Y:2020-21		
1.	Modeling and design of biosensor	18761A1020
2.	Foot step energy generation using piezoelectric sensor	18761A1021
3.	Design and modelling of thermoelectric cooler Using mems	18761A1022
4.	Capillary filling-Level Set Method	18761A1023
5.	Hand Movement based speed controlling using MEMS	18761A1024
6.	Electrostrictive Disc using COMSOL Multyphysics	18761A1025
7.	A Piezoelectric Micropump using Comsol Multyphysics	18761A1027
8.	Micropump Mechanism using COMSOL Multyphysics	18761A1028
9.	Electro osmotic mixture using mems labs	19765A1019