



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.: 2013-14

- i) No.of Main Projects : 01
 ii) No.of Paper Publications : 04
 iii) Miniprojects : 18
 iv) Papers @ Conferences : 08

MAIN PROJECTS

A.Y:2013-14			
1.	Design and Deformation Analysis of MEMS Based Piezoresistive Pressure Sensor	10761A1022 10761A1047 10761A1004 10761A1023	Dr.T.Satyanarayana

PAPER PUBLICATONS

S.No	Title of the Paper	Journal, Vol., Year, Page No.	Roll No
A.Y: 2013-14			
1.	Design And Analysis Of Mast Diagonal Mounting For Incessant Communication	International Journal of Current Scientific Research, 2014; 5(3): 1185-1190	10761A1041
2.	Design and Deformation Analysis of MEMS Based Piezoresistive Pressure Sensor	International Journal of Advances in Engineering and Technology, Vol. 7, Issue2, May 2014, ISSN: 22311963	10761A1023 10761A1022 10761A1004 10761A1047
3.	Design and Simulation of Magnetism Based Energy Harvesting by Piezoelectric Cantilever using COMSOL Multiphysics	International Journal on Electronics and Communication Engineering Advanced Research (ISSN:2347-9329) vol-2 issue-2	11761A1025 11761A1013 11761A1017
4.	Design and Simulation of MEMS Based Piezoelectric Accelerometer	International Journal of Current Engineering and Technology ISSN 2277 - 4106	11761A1028 11761A1039

MINIPROJECTS

A.Y:2013-14		
1.	Design and simulation of MEMS based accelerometers	12761A1026
2.	Design and simulation of Cantilever Beam	12761A1009
3.	Design and analysis of micro direct methanol fuels	12761A1017
4.	Design of Electro statically Actuated Cantilever	12761A1027
5.	Analysis of Thermal Stress Distribution in a Layered Plate	12761A1015
6.	Design and Simulation of Electric Sensor	12761A1025
7.	MEMS capacitive pressure sensor	12761A1035
8.	Thermo elastic damping in a MEMS Resonator	12761A1041
9.	Design and induced potential analysis of PIEZO ceramic tube	12761A1040
10.	Design PIEZO electric shear actuated beam	12761A1033

11.	BAISED resonator 3-D Basic	13765A1008
12.	Controlled diffusion micro mixer	12761A1046
13.	SAW gas sensor	13765A1009
14.	Spilt recombine micro mixer	12761A1032
15.	Pace maker electrode	13765A1001
16.	Tapered cantilever	13765A1003
17.	Thin film BAW resonator	12761A1039
18.	Designing modeling of composite transducer	13765A1004

PAPERS Presented at Conferences

S.No	Title of the paper	Name of the Program & Duration with Date Host Institution	Roll No of Student	Academic Year
1.	Design and Simulation of MEMS 3D Piezoelectric Accelerometer	International Conference on Recent Trends in Engineering, Technology & Sciences (ICRTETS-2014), 21 st & 22 nd Feb. 2014, JBEIT, Hyderabad	111A40039 111A40028	2013-14
			111A40039 111A40028	2013-14
2.	Design and Simulation of Magnet Based Energy Harvesting	International Symposium on Engineering & Technology (ISET-2014), 9 th & 10 th Jan. 2014, KJMET, Pune	111A40013 111A40047	2013-14
3.	Design and Simulation of MEMS based accelerometers		111A40039 111A40028	2013-14
4.	Design and Simulation of Vibration Based Energy Harvesting Using Piezo Tires		111A40043 111A40039 111A40028	2013-14
5.	Design and Simulation of Nuclear Radiation Based Energy Harvesting using COMSOL Multiphysics 4.3b		111A40013 111A40047	2013-14
6.	Modeling of MEMS Based Bolometer for Measuring Radiations from Nuclear Power Plant	International Conference on Smart Systems (ICSS-2013), 7 th & 8 th Oct. 2013, Athidhi International Hotel, Eluru	101A40041	2013-14
7.	MEMS Piezoelectric Generator		111A40043 111A40049	2013-14
8.	Design and Simulation of MEMS Based Piezoelectric Accelerometer		111A40039 111A40028	2013-14