

Department of Electrical & Electronics Engineering

Project Title: Multipurpose Power Generator

ABSTRACT: 'Multipurpose Power Generator' **is an ingenious product from JITM, which works on the principle of conversion of mechanical energy to electrical energy with optimum efficiency. This deals with modeling and analysis of the device with respect to the eco friendly needs of the environment and the rural vicinity of the college. The model is a pragmatic approach to meet the demands of time which complies with the renewable generation of energy. This prototype paves for compatible generation of mechanical energy via paddling which excites the alternator for conversion process so that the energy generated can be stored at an optimal rate which can be harnessed efficiently depending upon the needs. The essence of our work was the idea that 'Multipurpose Power Generator' could solve the array of conundrums associated with electricity generation in rural areas globally. This is a model which comprises of components which are cost effective, it consists of an alternator, a bicycle, battery , led lantern (an existing project from JITM) , circuit components such as d.c. voltmeter, galvanometer. The model emphasizes two main approaches

