

## **STATEMENT OF PURPOSE**

My interest in higher education (M.Tech) is due to my inclination towards academic. I want to pursue a career in research. I have interest in technical field especially in power engineering / power electronic. I believe that my present knowledge of engineering may not be sufficient for me to pursue academic career in research. I also want to learn more in my favourite technical subject.

During graduation .I got opportunity to study various subject which provide me and idea about my field of interest (B.Tech) course are design in such way to provide overall ideas of all relevant technical subject without in dept. knowledge in particular subject. Master course will certainly help me to learn more in particular field of specification.

I have inclination towards study of power engineering / power electronic .I believe that in coming years these will be major sustainable sources of energy. My BE minor project is also related to this field. I have successfully attempt to produce electricity using thermocouple generator (based upon the seeback effect), which can be used as source of electric power in the rural areas. It will further reduce overdependence over fossil fuel based electric generation. It may be a solution to climate change related problems such as global warming. And I'm also studying about Enhanced Droop Control Technique for Parallel Distributed Generations in AC Micro grid. Which Demand of on-site distributed power generation has increased due to rapid increase in renewable energy based power generation. These Distributed Energy Resources (DERs) such as solar photovoltaic produce DC which needs to be converted into AC using inverters in order to connect to the local AC distribution network in a micro grid (MG).

I want that my specialized knowledge in domain of power engineering/power electronic provides me an opportunity to handle certain research project which could be used to resolve power shortage.