

Name: SYED ARIF ULLAH SHAH
Personal ID Number: 840417-3810



Topic#1: STUDY ELECTRIC POWER ENGINEERING - WHY?

- **Why did you choose this particular programme?**

I did my bachelor degree in Electrical Engineering and joined Institute of Space Technology (IST) Islamabad as research associate. My major research activities included designing, operation and maintenance of 11 kV substation including power factor correction and protection. I supervised bachelor's students too in their final year projects based on designing in Verilog HDL and implementation on FPGA. During this tenure of my experience I learned about my interests in the field of communication and control in Electric Power System which enhance coordination among control centers by using advanced computer tools and also facilitate operation and control of power system. Since KTH has huge research contribution in this field and I think master program in electric power engineering will surely enhance my technical knowledge in the area of my interest that is why I undertook master program in electric power engineering at KTH.

- **What are your life time goals (career related)?**

Clearly, I have devoted my life both to working to better myself and improving civilization as a whole. My life time goal is to carry out the tasks assigned to me with perfection and devotion. My interest is purely technical in the field of Electric Power Engineering. I truly enjoy working in the field of Electric Power Systems. Using my technical knowledge and research methodology I want to contribute my efforts to provide reliable and efficient electric power by designing smart grids for flexible operation and control in my home country. And surely it will lead me to a promising future as well.

- **What are your goals for the next 3-5 years?**

After completing master degree in 2017, my initial focus would be to continue my PhD studies and research in the area of my interest like ``Intelligent Power Grids`` because it is the topic where my interest stays, I would very much like to join some research groups which working in area of my interest. During this time I will surely get an opportunity to interact with many

experts globally, giving an insight to their culture as well as their working styles and problem handling capabilities.

- **What are your goals for the ongoing academic year?**

For ongoing academic year my primary goal is to earn at least 60 credits. My goal is to study compulsory and elective courses and pass all the courses with good grades. During study my goal is to do laboratory work, attend all related seminars, do project works and submit home assignments well in time. One of my goals is to design substation automation system by using HELINKS and get familiar with this tool. During summer vacations my interest is to look for internship related to my field and this will surely help me in final year thesis.

- **Now that you have prepared your study plan and spent a number of weeks as a master student at KTH, what has surprised you the most (positively or negatively)?**

The one thing that surprised me positively is different approach to develop learning capabilities like peer assessment, reflecting text, web base activities, home assignments, presentation, seminars and preparatory work for LAB. Secondly the environment of KTH campus is much friendly and healthy. All the teachers, TAs and colleagues are more than sincere and cooperative.