

Electrical and Electronics Engineering Department**Report**

Department of Electrical and Electronics Engineering conducted a guest lecture on '**Electrifying your future: Exploring Future Prospects after Electrical Engineering**' on 26th September 2023. Mr. Vaibhav Bhardwaj and Mr. Shayak Chaudhuri, Prime Minister Research Fellow (PMRF)- PhD Scholars, Department of Electrical Engineering, IIT Delhi were the speakers for the session. Mr. Vaibhav began the lecture by listing out the common and prevailing myths around B.Tech in Electrical Engineering. He mentioned that while it is considered to be one of the most difficult branches where students are assumed to land when all their choices are exhausted, it is a flexible branch. He also added that the electrical branch is highly versatile and opens up a lot of job opportunities.

Mr. Vaibhav proceeded with explaining the options Electrical Engineers have after completing their degree in B.Tech. He elucidated various routes for the same. The first route was a job right after graduation, wherein one would be working in the maintenance and operations department, along with a bit of R&D as well. Secondly, he briefed students about going for higher studies i.e. Masters and Ph.D. It included how one could pursue higher studies, either in India or abroad. Mr. Vaibhav also cleared a conservative myth around Ph.D. prevailing in society that people go for a Ph.D. when they cannot find a job. He mentioned and described the merits and demerits of all the above-mentioned routes.

The lecture went on with Mr. Shayak taking the stage to discuss the major industries an electrical engineer could get into and also the desirable skills that are expected from an electrical engineer. He proceeded with discussing the growing opportunities in the automotive industry for electric vehicles and the renewable energy sector. He added how with the depletion of fossil fuels day by day, these two industries attract electrical engineers for innovation. Other industries he mentioned are power plants/grid regulators & manufacturing, the semiconductor industry, and the telecommunication industry. He talked about the various companies working in the above sectors.

Moving on, Mr. Shayak discussed the desirable skill set for an electrical engineer. He divided the skill set into three categories, namely basic skill set, general skill set, and specific skill set. The basic skill set included coding, MS Excel, LinkedIn profiling, and soft skills. Mr. Shayak unfolded the importance of coding in today's world. He added that while coding is considered to be obsolete for an electrical engineer, it is not so. He also emphasized the importance of creating and maintaining a good LinkedIn profile for making new connections which further help in creating opportunities for oneself.

The general skill set includes MATLAB, Embedded C, PCB Designing, and more. The specific skill set comprises particular skills an electrical engineer may acquire according to their area of interest; for instance, PSM for circuit designers, LINUX for VLSI engineers, PSCAD for power engineers, and more.

The lecture proceeded with Mr. Vaibhav inviting questions from the audience.

In conclusion, the lecture was a big success in informing students pursuing electrical engineering that it is a branch that is highly versatile and is not dying, but ever-growing.



