

Science can amuse and fascinate us all, but it is engineering that changes the world. This visualization led me to go ahead in this field upon which this growing world is dependent on. I am a final year undergraduate student, very soon going to be an engineer. But my undergrad studies are not sufficient to achieve my career goals. I want to stand as a qualified structural engineer in near future. At the same time, a life time learner of structural engineering.

After getting into the best engineering college in Nepal, my journey to structural engineering began with learning the subjects like strength of materials and structural analysis, which after a very short time, gave me a mindset to go with it. It was just like an extension of basic classical mechanics which I had learnt in my higher school studies. It was the subject, which had very less to memorize and many more to analyze. I have tried my best to build foundation for this field by giving importance to both theory and practical. Practical sessions were based on structural properties of steel, cement concrete and fibre reinforced concrete, where I performed detailed material testing of structural materials at Central Material Testing Lab(CMTL). CMTL is a national level laboratory for material testing. I learned structural design and modeling using ETABS and applied the same in design of a three storey residential building. I completed my minor project on “Design of Trail Suspension Bridge”, where I designed bridge foundation, cable and its geometry and anchorage.

During my studies I went through nptel lecture modules and youtube lectures, which made me a bit familiar with the magnificent learning environment at IIT,Kharagpur. This encouraged me to appear in GATE 2022 and I was able to obtain a good score. After getting into graduation course, I want to excel in structural design and structural modeling. My research interest are in the fields of structural dynamics, response of material towards dynamic loading, stochastic modeling in structural dynamics, non-linear structural analysis, structural control and numerical modeling of structures. I want to get dedicated majorly to seismic analysis and reliability assessment of structure through mentioned interests. The structure that fascinates me the most is bridge and its dynamics. All these aspects demand a strong prerequisite of simulation mathematics which is on top of my to-do list. IITKGP can provide me the best platform to delve into these fields at much deeper level as the ongoing researches at IITKGP are focused on these aspects.

I have set three objectives for my graduate period at IITKGP : to make a thorough study of structural analysis, design and mathematical simulation ; to expand my computational and modeling skills ; and to make influential innovations through my research. IITKGP is the place where I can explore the diversity and boost up my overall individuality. I sincerely hope you will grant me the privilege of pursuing my graduation in your prestigious university.