

# GAURAV KRISHNA

---

Roll No. Y9227224  
Prog. BT-MT Dual Degree  
Contact B-215 Hall 10, IITK  
Phone No. +91-8874344977  
Email gkrishna@iitk.ac.in



## Motivation

I have spent four years as an undergraduate in CSE department and two years as a student nominee in the Departmental Undergraduate Committee. I feel that our department can be transformed into a more vibrant and nurturing system, academically. We have a huge potential to improvise better fostering environment to young undergraduate minds to create milestones in their life. We have moved forward in this direction by adhering new ideas like inter-departmental courses, minors, double majors, introducing new courses and also some bold steps in this line as recognising other departmental courses as core courses if we are unable to provide them due to constraints.

## Mission

Our Departmental Undergraduate Committee has a great potential to leave a significant impact on the department, because if we look into its constitution, it comprises of our Head, Admissions in-charge, Placement in-charge, Counselling Advisor, faculty committee(DFAC) in-charge, Finance committee in-charge and of course, the convenor. This puts the committee in a very strong position. This is demonstrated by the fact that if you put any proposal or pass any resolution for the benefit of students irrespective of its domain, from pressing concerns of placement to availability of books in library, it will be motivated. I am putting some key steps, which I resolve to do in this coming year as a Student Nominee in the DUGC.

## Undergraduate Research day

In our department almost every course has a nice project from starting of 2<sup>nd</sup> year. All these projects can be well versed in significant research material and if promoted and pursued adequately can be published and recognised in CS domain. So to promote this, I propose a concept of 2 Undergraduate Research Days in a year, where undergraduate students can show case their projects, do poster presentations and paper presentations on the same line of recently proposed post graduate research day.

## Student Faculty Interaction Sessions

Faculty student interaction events always help in making bonding between professors and students. It also opens new avenues for students through knowledge enriched discussions, new seeding thoughts, invaluable sharing of experiences or precious advises. So I pledge to motivate this Faculty student interaction by routine happy hours, informal talks, etc.

### **Enriching Departmental Library**

Our departmental library is a resource, which is at a totally under-utilized and non-up-to-date state. It lacks essential books on state-of-art fields and even on general computer science topics like language references for C++, python etc. I will put forth this matter in committee and ensure the availability of all the essential and important books.

### **Course Specific Departmental Mentorship**

I have seen that some core courses have such a degree of difficulty, which is very tough to conquer without any help or guidance. In such courses, we can have the subject specific assisting mentors among senior batches to help poorly performing students. The idea was developed earlier in 2011 but was not properly executed.

### **Department Promoted Workshops**

In computer science every day we see a new technology, a new concept, a new idea surfacing out and to make us more competent and well versed, we need to be keep ourselves updated. Also we need to promote the culture of learning, programming and also developing software, in short acquiring market essential skills. For this, we should have workshops and lectures on related topics directly promoted and arranged by the department, which has not been seen in adequate numbers.

### **Undergraduate Research Groups**

A young undergraduate mind is always loaded with new igniting ideas, kindled with revolutionary thoughts but an individual does not succeed in letting it come on platter because of absence of a support-and-guidance platform. In such undergraduate groups, people with similar interests can foster each other in shaping their ideas and dreams with collaborative working. Such groups would be mentored and guided by professors.

### **Inter Departmental Courses**

Many topics in computer science are closely related with similar fields in other department or use large number of tools and techniques of those fields. For example: Computer Architecture has several areas like microprocessor design etc. deeply connected with some electrical courses like digital electronics, semiconductor devices technology, architecture of micro-processors & microcomputers etc. Some departments offer courses which are serves interest of some fields pertaining to computer science like EE has information and coding theory, computer based biomedical signal & image processing etc. MTH has multivariate analysis, statistical simulation and data analysis, graph theory etc. We can offer inter - departmental courses in these topics to serve our purpose in best possible way. This will help us to fight with the deficiency of such courses, which is otherwise inevitable as the department does not have enough faculty to teach such a vast number of courses.

### **Effective Execution of Newly Introduced Policies**

New policies like minors, double majors, restructured courses, template change have been recently introduced. I will make sure that these policies are implemented and executed in the best possible interest of students.

## **Vision**

As a student nominee in the Departmental Undergraduate Committee, I would like to promote the creation of such an academic environment in our department, where we can improvise the best possible opportunities to create a competitive yet a learning atmosphere. I see a department wherein students can challenge themselves in the area of their interest, hone their skills, learn and thereby touch the horizon of success in their respective fields.