TEACHING STATEMENT

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My main motivation for applying to a position in a university is my flayer towards teaching and interacting with students and my zeal towards lifelong learning. I strongly believe in the importance of education in a society, and teaching has provided me with my most rewarding professional experiences. The knowledge we accumulate as researchers and practitioners is valuable only if it is shared.

Most of the great scholars considered teaching as a kind of art since teaching is not how much you know but it is how much you are understandable. In my opinion, teaching is to facilitate getting knowledge. A major distinction between teachers is their teaching philosophy -- the success of a teacher depends heavily on his/her philosophy and how he/she applies it. This is something that can evolve through experience Challenges in instructing graduate and postgraduate students for me is finding the ways to bring the students down into the nuts and bolts of the course and develop a system level design approach without squandering their initial enthusiasm from the higher-level discussion.

At Doon University, my engagement with the university is to teach MCA students where I deal with various subjects. I am also the active participant in the Friday Lecture Series, where I delivered various lectures on development of technology driven teaching pedagogy, Cloud Computing in Effetive Teaching, Mind Mapping in Effective and Efficient Teaching, Effective Research Management using Mendeley etc which was appreciated by the VC and other faculty members. I have also organized various Workshops, Summer Schools and FDP.

I consider myself a passionate teacher and a passionate learner. Therefore, I have gained a great deal knowledge by going through MOOCs, video lectures, handouts and had experience with a wide range of courses including Programming Languages (C, C++, Java), Computer Networking, Data Structures and Algorithms, Database Management, Network Security and Computer Architecture.

During my PhD at G B Pant Engineering College, Uttarakhand, I had the chance to do the full teaching of a PG students in Computer Sciencefor one year as a Teaching Assistant and have taught various subjects like Cryptography, Operating System, Compiler Design independently. I enjoy integrating technology in teaching by means of various softwares and cloud tools. I have used Piazza, Backpack, Mind Maps, Prezi etc in effective delivery of the course. Aldo I have a great zeal toward experimenting my teaching with various new and innovative means. I love to simulate my courses with various tools of the field like in Compiler Design, I have used COOL, Tiger, in Computer Architecture, I have used Ligicly and Logisim, in Operating system QEMU and Minix. Such extensive and diverse experience has significantly contributed to shaping up my teaching philosophy. In brief, my teaching philosophy is to help students to fully understand the teaching materials. Learning means to understand information,

not to memorize it. Books and encyclopedia can be referenced for rules, proofs, and details. Our message, as teachers, is to explain to students what is there deep below the surface. We should help students hone their reasoning, logic and sense. A lecture should not recite the literature. Instead, it should explore the subject, raise questions, and provide answers. The students' involvement has to be driven by sufficient motivation. Students are not going to pay attention unless they believe in the importance and usefulness of what is presented. The biggest mistake a teacher can make is to lose his students' attention. Therefore, keeping the lecture alive with arguments, discussions and humor is important in order to make students more alert and give the teacher opportunities to elaborate, and to correct misunderstandings. Another known way to increase their motivation and attention is to tie the concepts with real-life examples. I enjoy a lot to bind the concepts with real-tife examples. To make a class an active learners group, I used to demonstrate the class with flashes, animations and Applets. I remember that in Operating Systems class, I used applets for various types of scheduling and RAID and it was enjoyed by the students a lot.

Careful selection of the course materials has positive impact on students to follow the course material. The material should be simple and include enough examples rather than the subject matter only. Such material should also be provided through nice presentations and be online for easy access of the students

I try to be sensitive to the fact that students come to a course with different backgrounds and skill levels. The challenge is to coach weaker students while not losing the attention of quicker students. I believe teachers should be a source of encouragement in students' lives, and especially so to underrepresented students. Finding a way to do this without making students feel singled out is a challenge. Showing sensitivity and taking opportunities to mentor students are unobtrusive ways to give under-represented students extra support.

Instructors can support their course goals by providing proper assignments, projects and examinations. The assignments must help the students learn the concepts better, and the projects must demonstrate how they can apply the techniques in the real life. They should increment student's reasoning ability and force them to review the essential concepts. Exams should follow the same line. Teaching should also help interested students to get involved in a research group. Therefore, the instructor should set regular one-to-one or group meetings with his students in order to keep track of the status of the students, supervise and help them to figure out their future paths. I have a firm belief in one to one meeting to track the progress of the individual student in the course you are teaching. The students should be evaluated on a multiple paradigms of evaluation like group discussion, timely submission of the assignments, active participation in Quizzes and group work. During lecture, I am a great adminor of in lecture Quiz (tell me why, what happens if, true/false) and discussion. I have a strict assignment submission policy that every student have to submit their assignment on the coming Wednesday, otherwise a late submission penalty of 50% is awarded. Open Book Exam and Surprise Tests are some of my favorite tools to judge the learning progress of the students.

As a consequence of my teaching experience, I would welcome the opportunity to teach a variety of

Courses at both undergraduate and graduate levels. I can offer courses such as Cloud Computing, Big Data Analytics, Compiler Design, Algorithm Analysis and Design, Operating Systems, Discrete Mathematics, Data Structures, Algorithms, Computer Networks, Data and Network Security and Computer Architecture. Feedback is a tool to ignite you to do some better in your teaching. I always welcome suggestions and feedback from the students. The opinions and perceptions of the students add a different and valuable perspective.

I want to walk some extra mile to achieve excellence in my teaching and guidance. I consider teaching a vital component of an academic career and I look forward to contributing to the educational strength of your department.