

Dr Jagbir Kaur

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Professional Summary

Experienced Mathematics educator with 5 years as an Assistant Professor teaching undergraduate engineering students and extensive experience as a private tutor for school-level students. Skilled research scholar with experience guiding students and fellow researchers on thesis and academic projects. Strong technical proficiency in IT, software, and coding, with a proven ability to integrate technology into teaching to enhance learning outcomes. Committed to fostering academic growth, critical thinking, and problem-solving skills in diverse student groups.

Work Experience

Private Tutor: Xpert Tutoring & Private High School, Brampton, ON, Canada.

Aug 2024 - Dec 2024

- Provided one-on-one mathematics tutoring to high school and undergraduate students, focusing on personalized instruction and academic improvement.
- Designed custom lesson plans to address individual learning needs, helping students strengthen core concepts in calculus, algebra, and statistics

Assistant Professor: Department of Computer and Engineering, Lovely Professional University, Phagwara, India. Jun 2023 - May 2024

- Delivered engaging and comprehensive undergraduate lectures on engineering mathematics topics, including Calculus, Differential Equations, Integration, and Fourier Series.
- Organized, conducted, and managed monthly semester examinations for graduate students, ensuring fair assessment and timely feedback.
- Utilized effective teaching strategies to engage students and enhance their understanding of the subject matter.

Teaching Associate: School of Mathematics, Thapar Institute of Engineering & Technology, Patiala, Punjab, India. July 2017 - June 2020

- Delivered tutorial lectures on Mathematics-II (UMA-004), Calculus, Differential Equations, and Laplace Transforms.
- Taught numerical analysis (UMA-007) using MATLAB.

- Mentored postgraduate students in thesis writing and research presentations.
- Organized and managed semester tests for graduate students.

Assistant Professor: Department of Mathematics, Baring Union Christian College, Batala, Punjab, India. Jan 2015 - June 2016

- Lectured on Calculus, Number Theory, Linear Algebra, and Trigonometry.

Skills

- **Mathematics Teaching:** Calculus, Differential Equations, Linear Algebra, Number Theory, Statistics, Numerical Analysis; experience teaching grades 5–12 and engineering students
- **Research & Mentoring:** Thesis guidance, research project supervision, academic writing
- **Technical Skills:** MATLAB, Python, R, C++, Mathematica, LaTeX, MS Office, SQL, educational software
- **Other Skills:** Curriculum design, lesson planning, exam preparation, classroom management, online and in-person teaching, student assessment, interactive teaching strategies

Education

- Doctoral of Philosophy in Mathematics:- Thapar Institute of Engineering and Technology, Patiala, India, July 2016 - Aug 2023
- Masters in Mathematics(Honors):- Guru Nanak Dev University, Amritsar, India, Aug 2012 - May 2014
- Bachelor of Sciences in Computers & Mathematics:- Baring Union Christian College, Batala, India. July 2009 - May 2012
- Senior Secondary School:- Central Public Senior Secondary School Ghoman, India Mar 2007 - Feb 2009
- Secondary School:- Shri Guru Nanak Dev Academy, Kandial, India Feb 2006 - Mar 2007