Sahir GILL

DATE OF BIRTH: 16 January 1997 PHONE: +91 9654003899 EMAIL: sahirgill8@gmail.com

EDUCATION

2019 B.E. (hons.) Electrical and Electronics Engineering

Birla Institute of Technology and Science Pilani, K.K. Birla Goa Campus

CGPA: 7.189/10, first division

2015 Senior School Examination

Central Board of Secondary Education, India

Subjects: Physics, Chemistry, Mathematics, English and Computer Science

PERCENTAGE: 92.8%

PUBLICATIONS

25th June 2018 Bounds for Region Containing All Zeros of a Complex Polynomial

Journal Name: International Journal of Mathematical Analysis vol. 12, 2018, no. 7

ACADEMIC PROJECTS

Jan-Apr 2018 Complex Analysis: Bounds for Region Containing All the Zeros of a Polynomial

Modeled new bounds for annular region containing all the zeros of a complex polynomial using existing number sequences which reduce the area of such regions formulated by already existing results for some polynomials. Paper.

results for some polynomials. Papel

Aug-Nov 2017 Complex Analysis: A General Approach to Prove the Sendov Conjecture

Formulated an approach using Mathematica for proving the conjecture using the apolarity condition of polynomials. Presented a condition on fourth degree (can be extended generally) polynomials which if has a solution under given constraints, proves the conjecture. Report.

WORK EXPERIENCE

MAY-JUL 2017 | Summer Intern at ADANI POWER, Mundra

Industrial Training for Transformer Overhauling and Maintenance at India's second largest power plant. Rated "good" for performance and conduct.

POSITION OF RESPONSIBILITY

Aug 2018-current | Teacher's Assistant Multivariable Calculus, On Campus

Evaluation of quizzes, assistance during tutorial sessions, consolidation of scores, exam invigilation duties and organizational assistance to the instructor.

JAN-MAY 2018 | Teacher's Assistant Linear Algebra & Complex Analysis, On Campus

Facilitated doubt clearing sessions, consolidation of scores, exam invigilation duties and organizational assistance to all students. Rated "excellent" for overall performance.

Aug-Dec 2017 | Teacher's Assistant Calculus, Off Campus

Work Integrated Learning Program

Critical evaluation of answer sheets with constructive feedback. Moderation of discussion forum and answering queries of working professionals undertaking the course. Rated "excellent" for overall performance.

Aug '16-May '17 | Editor at Sizzling Sands, BITS Goa Annual Magazine

Directed content contribution and editing of creative submissions by college community. Moderated and promoted the magazine content on social media.

CERTIFICATES AND EXAMINATIONS

JUNE 2018 TOEFL IBT[©]: 114/120 (R:27/30;L:30/30;S:29/30;W:28/30) MARCH 2018 GRE[©]: 324/340 (Q:170/170;V:154/170); AWA: 4.0/6.0

COMPUTER SKILLS

Basic Knowledge: MATLAB, HTML, \LaTeX Intermediate Knowledge: C++, Wolfram Mathematica

MATHEMATICS COURSEWORK

Multivariable Calculus, Probability & Statistics, Linear Algebra & Complex Analysis, Differential Equations, Number Theory, Complex Analysis, Introduction to Topology, Optimization, Study Project, Mathematical Methods, Design Project 1, Algebra-I, Elementary Real Analysis, Design Project 2.

Poetry Blog (link), Football, Astrophotography, Reading.