

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%
- 2013 Secondary School Examination
Central Board of Secondary Education, India
CGPA: 9.2/10

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](#).
- 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](#).

PUBLICATIONS

- 25th June 2018 **Bounds for Region Containing All Zeros of a Complex Polynomial**
Journal Name: **International Journal of Mathematical Analysis** vol. 12, no. 7

WORK EXPERIENCE

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| MAY-JUL 2017 | Summer Intern at ADANI POWER, <i>Mundra</i> Industrial Training for Transformer Overhauling and Maintenance at India's second largest power plant. Rated " <i>good</i> " for performance and conduct. |
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POSITION OF RESPONSIBILITY

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| AUG 2018-CURRENT | Teacher's Assistant MULTIVARIABLE CALCULUS, <i>On Campus</i> 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, <i>On Campus</i> Facilitated doubt clearing sessions, consolidation of scores, exam invigilation duties and organizational assistance to all students. Rated " <i>excellent</i> " for overall performance. |
| AUG-DEC 2017 | Teacher's Assistant CALCULUS, <i>Off Campus</i> <i>Work Integrated Learning Program</i> Critical evaluation of answer sheets with constructive feedback. Moderation of discussion forum and answering queries of working professionals undertaking the course. Rated " <i>excellent</i> " for overall performance. |
| AUG '16-MAY '17 | Editor at SIZZLING SANDS, <i>BITS Goa Annual Magazine</i> 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, MS Excel, HTML, \LaTeX
Intermediate Knowledge: C++, Wolfram Mathematica

ELECTIVES AND EXTRA CURRICULAR ACTIVITIES

Number Theory, Complex Analysis, Principles of Economics, Introduction to Topology, Optimization, Medical Instrumentation, Mathematical Methods, Mobile Telecom Networks.

Poetry Blog ([link](#)), Football, Astrophotography, Reading.