

# Ravi Suthar

## Curriculum Vitae

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### Research Career Objective

A first-division master's graduate with a strong interest in multidisciplinary research. Aspire to employ this solid academic foundation and research skills to address some prevailing research problems in Algebra, in particular Group Theory. PhD from a world class institute would be an opportunity to diversify my knowledge and specialized skills to solve complex problems with simple, enduring and cost-effective methods.

### Field of Specialization

Algebra

### Education

2020-2022 **Master of Science in Mathematics**, *Dr B R Ambedkar National Institute of Technology Jalandhar*, Jalandhar, Punjab, CGPA-**8.07/10**

**M.S. Thesis Title:** "Jordan Canonical Form and its Consequences" (March 2022-August 2022)

**Thesis Supervisor:** [Dr Ravinder Kumar](#), Department of Mathematics, NIT Jalandhar, Punjab

**Relevant coursework:** Linear Algebra

**Summary of M.S. research project:** This dissertation aimed to study Jordan decomposition of a square matrix and its consequences. we discuss about the existence and uniqueness (upto permutation) of Jordan matrix and how to obtain Jordan chain. There are many consequences, one is to solve system of ordinary differential equation with initial conditions using matrix exponential. Then we study an algorithm to compute the Drazin inverse of a singular matrix. Further we study that the Jordan decomposition of the product of a positive-semidefinite and a Hermitian matrix.

2016-2019 **Bachelor of Science**, *S S Jain Subodh PG College, Jaipur*, Rajasthan, India

**Grade:** 64.94/100

### Technical Skills

- Programming Languages
- C++: Completed master's course with graded assignments and lab exams with excellent grades.
  - MATLAB: Completed master's course with graded assignments and lab exams with excellent grades.

Software  $\text{\LaTeX}$

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## Conferences/Workshops/Summer School

- Aug 2023 *Lecture Series on Number Theory*: [SLIET Longowal](#)
- June 2023 - **Research Internship**, *Finite Group Theory*
- Aug 2023 ○ **Supervisor**: [Dr Pradeep Kumar Rai](#).
- Feb 2022 **Conference**, *International Conference on Mathematics, Statistics and Data Science*, [ICMSDS-2022](#)
- Dec 2021 **Seminar**, *Research Trends in Communication and Signal Processing- NIT Jalandhar*
- May 2021 **Workshop** , *Jordan Canonical Forms*, [CUSB](#)

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## Honours and Awards

- AIR 943/12463 at Indian Institute of Technology Graduate Aptitude Test in Engineering.
- AIR 1692/13518 at Indian Institute of Technology Graduate Aptitude Test in Engineering.
- AIR 854/14374 at Indian Institute of Technology Joint Admission Test for Masters.

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## Extra Curricular

- Placement Representative, NIT Jalandhar Placement Cell
- Participated in Chess competition, Knights and Kings
- Hostel Secretary, Hostel-6, NIT Jalandhar

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## Interests/Hobbies

- Basketball
- Music
- Drawing

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## Languages

- English **Con conversationally fluent**
- Hindi **Con conversationally fluent**
- Punjabi **Can understand**

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## References

Available on request