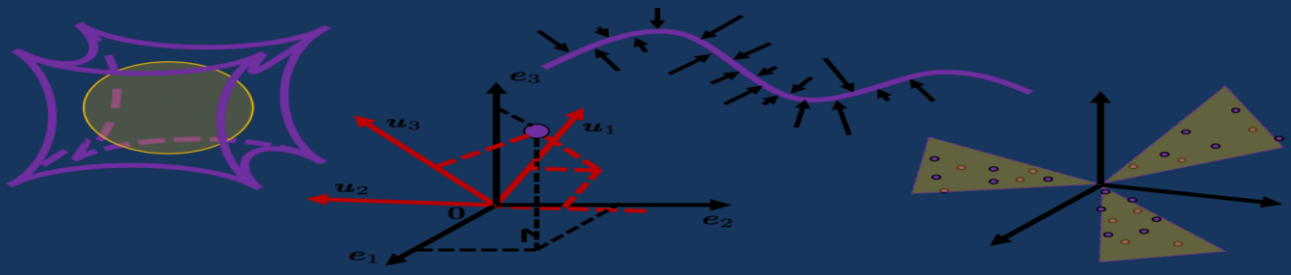
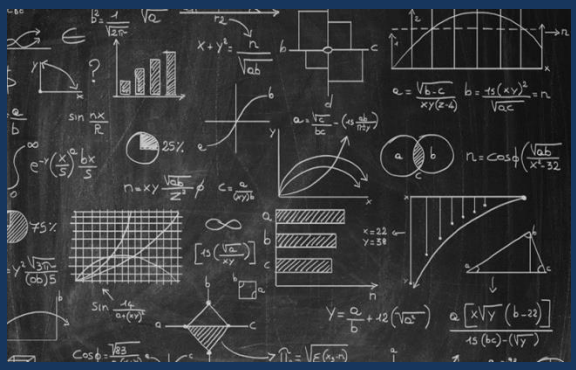
**OPEN ELECTIVE – A**




**Department of Basic Sciences**

# ADVANCED LINEAR ALGEBRA

**Starting: April 2021**
**Credits: 3**
**Eligibility:** Students of all branches in engineering



| Occupation | Salary (INR/ USD) |
|---|---|
| Researcher in Mathematics | Starting at 14 Lakh/Yr. |
| Lecturer in Mathematics | Starting at 12 Lakh/ Yr. |
| Aerospace Engineer | Starting at $125,197/ Yr. |
| Subsystem Element Engineer | Starting at $109,411/ Yr. |
| Safety Engineer | Starting at $122,530 / Yr. |
| Technical Management | Starting at $108,885/ Yr. |

# WHY?

Linear Algebra is a basic mathematical tool that is used in almost all fields of scientific research. Mechanical engineers use linear algebra to design and analyze suspension systems, and electrical engineers use it to design and analyze electrical circuits. Electrical, biomedical, and aerospace engineers use linear algebra to enhance X rays, tomographs and images from space. Analytic geometry utilizes the techniques learned during a study of linear algebra, for analytically computing complex geometrical shapes. In addition to science, engineering and mathematics, linear algebra has extensive applications in the natural as well as the social sciences.

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**Atria Institute of Technology**
**Bangalore 560024**

***WHAT WILL YOU LEARN?***

*This course is designed to provide the engineering and engineering technology students with all the necessary mathematical tools that are essential and necessary to pursue a career in any engineering field. You will be expected to gain basic skills in this domain along with an opportunity to boost your overall percentage with scoring examination schemes and come up to a level to execute a mini research project, preferable solely*