

The Applied Mathematics

Having basic and specialized knowledge in mathematics, applied mathematics and computer science in order to meet the specific requirements of interdisciplinary fields of AMI and related fields.

- ★ Ability to describe, calculate and simulate systems management, technology processes, build application software;
- ★ Ability to research, analyze and provide solutions to a number of issues in Engineering, Industry, Economics, Finance, such as optimization, forecasting, analysis, statistics, decision support , etc.
- ★ Ability to establish theoretical foundations of the problem, mathematical modeling, and find solutions to problems in diverse and ever changing fields of scientific and socio-economic life

After graduation, students can work in many professions using the Applied Mathematics and Informatics knowledge, such as

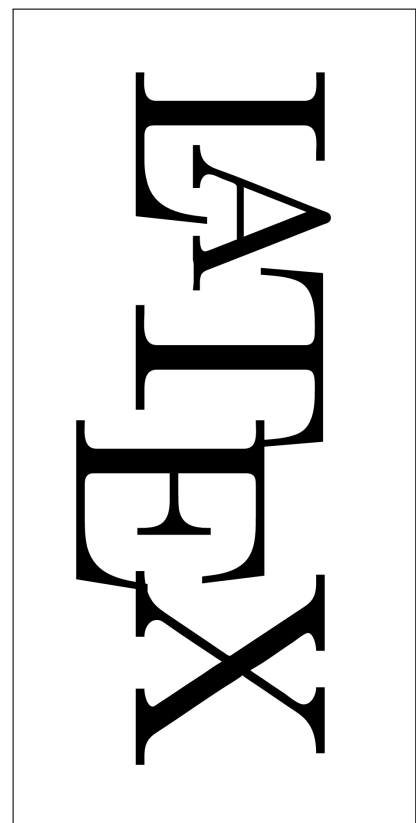
1. Software engineer
2. Programmer
3. Research and Development Specialist
4. System Analyst
5. Computer experts
6. Analyst, Statistics
7. Mathematician
8. Faculty members
9. Expert forecast, risk management, investment appraisal, insurance premium, etc

What is \LaTeX ?

(i) \LaTeX is a document preparation systems like Microsofts Word or Powerpoint, but the difference is much larger. \LaTeX uses programming language to create and design text, so it requires the user to understand the programming language which is quite complicated.

(ii) Advantages

- Uniform text: line spacing, text size, color, layout, etc., though it is the same text
- Fully automatic: chapter numbering, parent titles, subheadings, numbering equations, tables, images, references,... fully automatic.
- Reference materials: automatic and consistent, nice style.
- Automatically rearrange images and tables to best fit the text.
- Work with a large project: hundreds, thousands of pages in a very small tex file, easy to manage and control.
- Integrated math formulas: the mathematical formula integrates very well with the text, beautiful and clear.
- Drawing pictures: drawings and text on the drawing very harmonic with text (font size, not broken when zoomed,...)



- (iii) Applicability: \LaTeX is widely used in academia for the communication and publication of scientific documents in many fields, including mathematics, statistics, computer science, engineering, chemistry, physics, economics, linguistics, quantitative psychology, philosophy and political science.

Covid-19 Statistic *statista.com*

Country	Cases
USA	142 735
Italy	97 689
China	81 470
Spain	80 110
Germany	62 435
France	40 174
Iran	38 309
UK	19 522
Switzerland	14 829
Netherlands	10 866
Total (Worldwide): 723 319	

Table 1: Number of novel coronavirus (COVID-19) cases worldwide as of March 30, 2020, by country