

## ABOUT THE WORKSHOP

LaTeX, which is pronounced «Lah-tech» or «Lay-tech» is a document preparation system for high-quality typesetting. It is most often used for medium-to-large technical or scientific documents but it can be used for almost any form of publishing.

LaTeX encourages authors not to worry too much about the appearance of their documents but to concentrate on getting the right content. To produce a document in regular word processing systems, the author would have to decide the layout, font-size, font-type etc, which would be time consuming and the result would be badly designed documents. Whereas in LaTeX the author would leave the designing to document designers, and concentrate on the content of the document.

## TOPICS TO BE COVERED

- Typesetting journal articles, technical reports, books and slide presentation.
- Control over large documents containing sectioning, cross-references, tables and figures.
- Typesetting of complex mathematical formulas.
- Advanced typesetting of mathematics with AMS-LaTeX.
- Automatic generation of bibliographies and indexes.

## ELIGIBILITY CRITERIA

Participation in this workshop is open to the research scholars and faculty members of science and Engineering streams. It is also open to the Mathematicians, Scientists and Engineers who are working in the R&D organizations, industry and who wish to gain a basic understanding of the concepts involved.

## PATRON

**Dr.G. Viswanathan**  
Chancellor

## Co-PATRON

**Dr. Sekar Viswanathan**  
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**Dr. A. Mary Saral**  
Dean, School of Advanced Science (SAS)

## CONVENER

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# VIT<sup>®</sup>

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

## Workshop on LaTeX for Technical Writing

**October 03-04, 2019**

*Organized by*

**Department of Mathematics  
School of Advanced Sciences  
VIT, Vellore - 632014  
Tamil Nadu, India.**

## Organizing Secretaries

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## ABOUT VIT

Vellore Institute of Technology (VIT) was founded in 1984 as Vellore Engineering College by the Chancellor Dr. G.Viswanathan.VIT attracts students from all the **29 states of India and more than 41 different countries** because of its academic excellence. The credentials of VIT in academics and research, has placed VIT in the 13<sup>th</sup> position among the engineering institutions and VIT Business School has placed 17<sup>th</sup> position among the business schools in India by **NIRF, Govt. of India Ranking**. The world ranking body namely the **QS** has given **4 STAR rating** to VIT, with that VIT becomes the **first institution in India** to have the 4 STAR rating. In addition to this, the consortium of industries, **FICCI** has adjudged VIT as the “**Excellence in Faculty**”. VIT has the record of publishing **maximum number of SCOPUS Indexed Research Journal papers in 2016**, among Indian Universities, overtaking all the premier institutions. VIT has also completed **3 cycles of NAAC accreditation** and has been rated as “**A**” grade institution. In addition, VIT also has obtained for the coveted **ABET** accreditation by **US agency**.

VIT has introduced many **innovations** in academic processes which adds value to every student. **FFCS** (Fully Flexible Credit System), **PBL** (Project Based Learning) for better learning, **fully digitized** academic portals that assists students in equipping themselves for 2020 market place, **Hackathons / Makeathons** as part of curriculum exercise which kindles the interest and the curiosity of students, which moulds them to be better problem solvers, **8<sup>th</sup> module in every subject being handled by industry experts**, making the students contextualize the concepts they study in the classroom, are a few of

the innovations that VIT has introduced.

## ABOUT THE SCHOOL OF ADVANCED SCIENCES

The School of Advanced Sciences (SAS) includes Mathematics, Physics and Chemistry disciplines. The School offers M.Sc., M.Phil. and Ph.D. programmes in these domains. The faculty of the entire School comprises qualified and goal-oriented members whose research expertise includes major frontier areas in Mathematics and Physics, Chemistry. The School has been receiving research grants from various funding agencies such as DST, CSIR, DRDO, NBHM, BRNS, IGCAR, AERBA, NRB and ARDB. The School has also been recognized by DST for support under the FIST programme. The School will be conducting various programmes such as InoVIT, SciGATHER and VIT Mathematical Meet, which are South India level math and science contests for school children to create and encourage mathematical and scientific innovations among the students. The Department of Mathematics has a good record of organizing seminars, workshops, symposium and conferences (NCPAM, ISTAM) in the recent emerging technical areas.

## ABOUT THE DEPARTMENT

Mathematics is an essential component of all engineering disciplines. The Mathematics department has 110 faculty members who support the other engineering departments through teaching and are also actively involved in academic research in different areas such as Algebra, Theoretical and Computational Fluid Dynamics, Mathematical modeling, Complex Analysis, Geometric Function Theory, Graph Theory, Stochastic Processes and Queuing Theory,

Coding Theory and Theory of Computation, Fuzzy Logics, Optimal Control Problems and Numerical Methods. Several research projects of the department are financially supported by some of the leading funding agencies such as CSIR, DRDO, DST and MHRD. The department is also serving the requirements of the leading industries through consultancy projects.

## REGISTRATION

Registration fee:

**For participants outside VIT: Rs. 500**

**For participants within VIT. Rs. 250**

For the convenience of the participants, the registration fee will be accepted through e-transfer or DD. The details are as under:

**(1) Electronic Fund Transfer:** The participants can pay the registration fee using the following link

<http://info.vit.ac.in/Events-VIT/Latex-Oct/apply.asp>

The participants are required to bring the hardcopy of the online payment acknowledgement.

**(2) Demand Draft:** The registration fee can be paid through DD in favour of “VIT Vellore” payable at Vellore. The DD along with covering letter should reach on or before **27-09-2019**.

**Registration is limited to 80 participants only, on first come first serve basis.**

## ACCOMMODATION

Accommodation will be provided to participants in Students' hostels (dormitory) on additional payment of Rs. 350 per day per person.