

About the workshop

Under the project "Use of Open Source Software for Teaching of Mathematics" the first 5-day workshop will be held during 26 - 30 July, 2010 on Scilab, LaTeX & other FOSS tools.

Scope

The workshop aims to cover two main FOSS (Free/Open Source Software) tools Scilab and LaTeX. Apart from this participants will be trained to use the FOSS operating system Linux. Other software such as GeoGebra, Maxima, R, SAGE will also be introduced.

Scilab: A scientific software package (<http://www.scilab.org>) that provides a powerful open computing environment for engineering and scientific applications. It is currently being used in educational and industrial environments around the world. It is distributed freely through the Internet since 1994.

LaTeX: A technical documentation system, useful for preparing Research Papers, Mathematical/Technical articles, Books, Notes, Technical Projects write-ups, Question papers etc.

Other FOSS tools: An overview and hands on practice of Linux operating system.

Who can register for the workshop?

- College teachers/ registered research students
- Students (M.Sc./ Engineering/Under Graduates from IISER/IIT/B.Math)
- Professionals

Workshop registration process

- Register online with the form available at <http://fossmc.bprim.org>
- After clicking the submit button the form will be automatically mailed to your email id specified by you in the form.
- Take the printout and get the form signed and stamped from head of department/principal, college/institute.
- 25 selected outstation participants (college teachers/ registered research students) will be given travel support and local hospitality.
- 15 local participants can be accommodated in the workshop.
- List of selected participants will be announced on the website by 25th June, 2010.
- To confirm participation selected applicants are required to send a cheque of **amount*** specified in the **Participation Fee Section** in favour of "**Bhaskaracharya Pratishthana Pune**".

Course Contents

LaTeX – Introduction, basic commands, environments, table of contents, thm, equations, matrix handling, section no, footnote, Preparation of Question Paper and beamer presentation.

Scilab – Introduction, Linear algebra, Numerical methods and graphics.

Linux – Installation, Equivalent applications on Linux, directory structure, Basic commands, software installation, File permissions, etc.

GeoGebra – Modeling in Calculus using GeoGebra, other features

Maxima – Symbolic Computation

R – Introduction to R - tool for data visualization

SAGE – Introduction to the math server

Faculty

- Ajit Kumar – UICT, Mumbai
- Gaurav Pant – PLUG, Pune
- M. Bhopatkar – BP
- Manjusha Joshi – BP
- P. Pingle – BP
- R. Pawale – Sathye College, Mumbai
- S. A. Katre – Pune University
- Sasikumar – SPACE, Trivandrum
- Shailesh Shirali – Rishi Valley, AP
- Sudhanwa Jogalekar – PLUG, Pune
- Surendran – BP

* Participation Fee

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| Outstation college teachers/ registered research students: 1,000 Rs. |
| Local college teachers/ registered research students: 500 Rs. |
| Students (M.Sc./ Engineering/ Under Graduate from IISER/IIT/B.Math): 250 Rs. |
| Professionals: 2,500 Rs. |
| Foreign participants: 5,000 Rs. |
| Fee will be refunded to Indian academic participants on successful completion of workshop and exam. |

About BPRIM

Bhaskaracharya Pratishthana is an educational and research institute in Mathematics and it conducts special lectures/courses in Mathematics upto research level. The institute has organised national level workshops in Mathematics for research students and teachers and has organised many such workshops earlier on LaTeX and Mathematical Software in an efficient manner. More information about the institute is available at www.bprim.org

About MHRD

One of the aims of the Ministry of Human Resource Development (MHRD), Govt. of India and this project is to facilitate the absorption of existing FOSS alternatives to commercial packages for maths education, both in learning and teaching. <http://www.sakshat.ac.in>

Workshop on Scilab, LaTeX and other Free & Open Source Software

(A project at Bhaskaracharya
Pratishthana funded by MHRD.)

July 26th to 30th, 2010

<http://fossme.bprim.org>

Organized by



Bhaskaracharya Pratishthana
Research Institute of Mathematics
Pune, Maharashtra.

<http://www.bprim.org>

Last Date for registration
Monday 21st June, 2010

Contact/Postal Address

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Co-ordinator, Workshop on Scilab,
LaTeX & FOSS
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Venue

Bhaskaracharya Pratishthana
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Upcoming workshops

- Sep 27th to Oct 1st 2010:
 - Workshop on advanced Scilab.
- Nov 22nd to Nov 26th 2010:
 - Workshop on advanced LaTeX
- Jan 27th to Jan 31st 2011:
 - Introduction to CAS (Computer Algebra system)