



Goa University

Mathematics Discipline, School of Physical and Applied Sciences

Report on

“Five Day Workshop on LaTeX Type Setting in Mathematics”

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| 1. Title of the Event/Activity/program | Five Day Workshop on LaTeX Type Setting in Mathematics |
| 2. Date and Time | October 23-28, 2023 |
| 3. Mode of conduct (Physical/Online) | Physical |
| 4. School/ Directorate/ Section | School of Physical and Applied Sciences |
| 5. Collaborating Agency/School/Directorate | Nil |
| 6. Detail of the Resource Person (Brief biodata) | Dr. Narayan Vetrekar (Electronics Discipline), Dr. Bhargav K. Alavani (Physics Discipline), Mr. Brandon Fernandes (Mathematics Discipline), Dr. Jessica Fernandes e Pereira (Mathematics Discipline) |
| 7. Number of Faculty attended/participated | Nil |
| 8. Number of Student attended / participated | 34 |
| 9. No. of external students/faculty/other participants | Nil |
| 10. The objectives of the Program/activity/event | Objective of the Workshop was to give hands-on-training to M.Sc. (Part II) Mathematics Students in LaTeX typesetting software. Specially to prepare presentations in beamer in |

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| | LaTeX and to be able to type their M.Sc. dissertation in Latex. |
| 11. Description of the Program/activity/event | The program was organised by the Mathematics Discipline of the School of Physical and Applied Sciences so as to enable the Part II students of M.Sc. Mathematics to be comfortable enough to type their dissertation in LaTeX as it is a very useful tool for type setting in Mathematics. The Program was designed in such a way that students would get enough practical experience with which they will be confident in using LaTeX on the go. |
| 12. Benefit/Key outcomes of the Program/activity/event | The students who did not have access to personal Laptops were provided with desktops to perform the practical component of the Workshop. At the end of each day a tutorial sheet was made available to the students in google Classroom that was created for the purpose and the students were expected to submit the assigned in the google classroom. The Resource Persons were well experienced in using LaTeX and the students took benefit of it by interacting actively in the sessions. The Workshop ended well with good feedback from the participants. |
| 13. Enclosures with report | Timetable of the Workshop, Attendance of the students and Geo-tagged photographs |

Signature:

Name of coordinator:

Dr. Jessica Fernandes e Pereira

Designation: Assistant Professor

Signature:

DEAN 6/11/2023
School of Physical and Applied Sciences
Goa University, Goa

Dean/Director/Head

Seal of the School/Directorate/University

Signature:

Committee Member: Mr. Brandon Fernandes

Designation: Assistant Professor



Date: Nov 06, 2023

Time Table for LaTeX Workshop (Oct 23-28, 2023)

Resource Persons: Dr. Aruna Govada, Dr. Narayan Vetrekar, Dr. Bhargav K. Alavani, Mr. Brandon Fernandes & Dr. Jessica Fernandes e Pereira

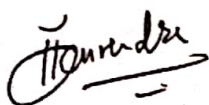
| Time | 23rd | 27th |
|---------------|--|--|
| 10:30 – 10:45 | Tea | |
| 10:45 – 12:45 | Introduction, Installation, Overleaf, Latex Draw (Brandon) | Document class{exam}, Creating a mathematics question paper. (Brandon) |
| 12:45 – 1:15 | Lunch | |
| 1:15 – 3:15 | Document types, packages, Basic Mathematical typesetting (Brandon) | Document class{book}, typesetting of dissertation, templates (Narayan) |
| 3:15 – 3:30 | Tea | |
| 3:30 – 5:30 | Assignment/Tutorial/Practical | |

| Time | 25th | 26th | 28th |
|---------------|---|--|---|
| 9:30 – 10:30 | Listing (enumerate, itemize, horizontal list etc), Creating bibliography, etc. (Brandon) | Insert logo, background, front page, TOC, change colour, etc (Jessica) | Document class{article} revisited, Title page (affiliation, contact details), abstract, keywords, (Jessica) |
| 10:30 – 10:45 | Tea | | |
| 10:45 – 12:45 | Document class{article}, section, subsection, insert tables, merge cells, split cells, etc. (Jessica) | Document class{beamer}, beamer themes (Bhargav) | Writing Algorithms in Latex (Aruna)(Online) |
| 12:45 – 1:15 | Lunch | | |
| 1:15 – 3:15 | Draw and Insert figure, caption. Export and import figure as eps from Latex draw, justify text, include references. (Jessica) | Prepare a Presentation and a Poster using Beamer (Jessica) | Miscellaneous (Brandon) |
| 3:15 – 3:30 | Tea | | |
| 3:30 – 4:30 | Assignment/Tutorial/Practical | | |

Venue: Laboratory V Computational Physics

Program Director:

Dr. M. Tamba



Assistant Professor

Mathematics (SPAS)

Coordinator:

Dr. Jessica Fernandes e Pereira



Assistant Professor

Mathematics (SPAS)

Committee Member:

Mr. Brandon Fernandes



Assistant Professor

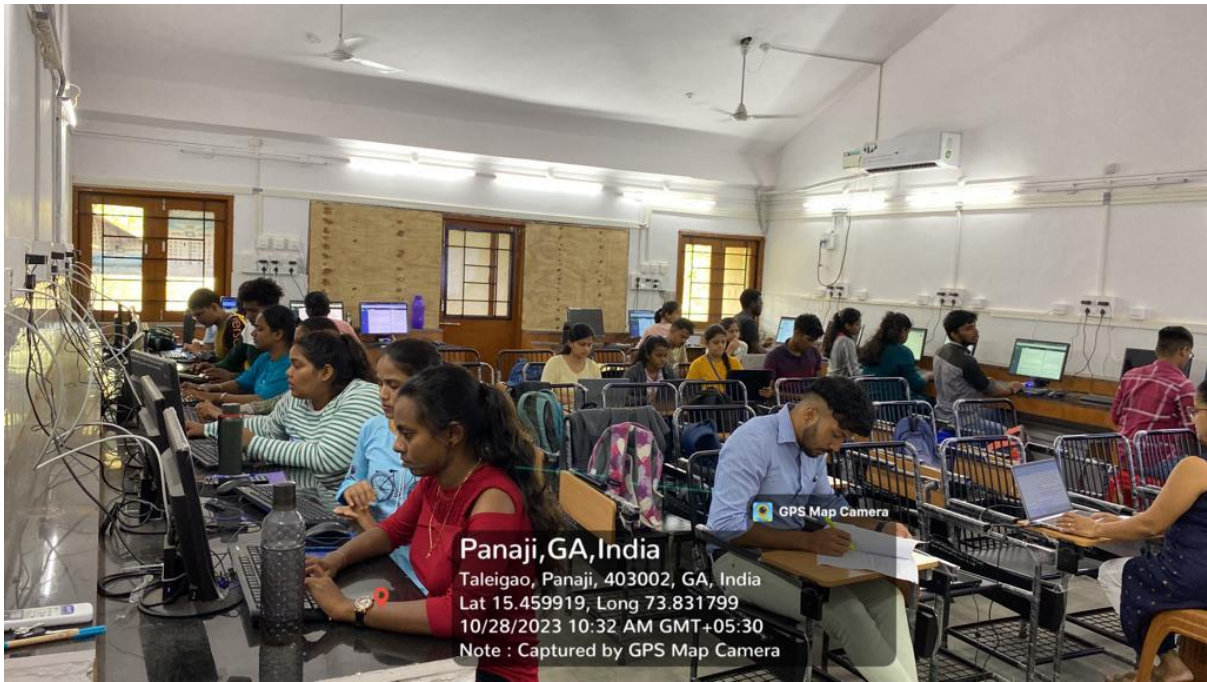
Mathematics (SPAS)

| Sr. No. | Name | 23-10-2023 | 25-10-2023 | 26-10-2023 | 27-10-2023 | 28-10-2023 |
|---------|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 27 | Chetali Damodar Naik | Chik | Chik | AB | Ab | AB |
| 28 | Shivani Devanand Narvekar | Shivani | AB | AB | AB | AB |
| 29 | Kritali matonkar | Kritali | AB | AB | Ab | AB |
| 30 | Eliseus Moraes | Moraes | Moraes | Moraes | Moraes | Moraes |
| 31 | Pallavi Uttam Naik | Naik | Naik | Naik | Naik | Naik |
| 32 | Bhavana Vinod Khedekar | Bhavana | AB | AB | Ab | AB |
| 33 | Shambhavi Manerikar | Shambhavi | Shambhavi | Shambhavi | Shambhavi | Shambhavi |
| 34 | Heramb Aiyu | AB | AB | Heramb | Ab | AB |
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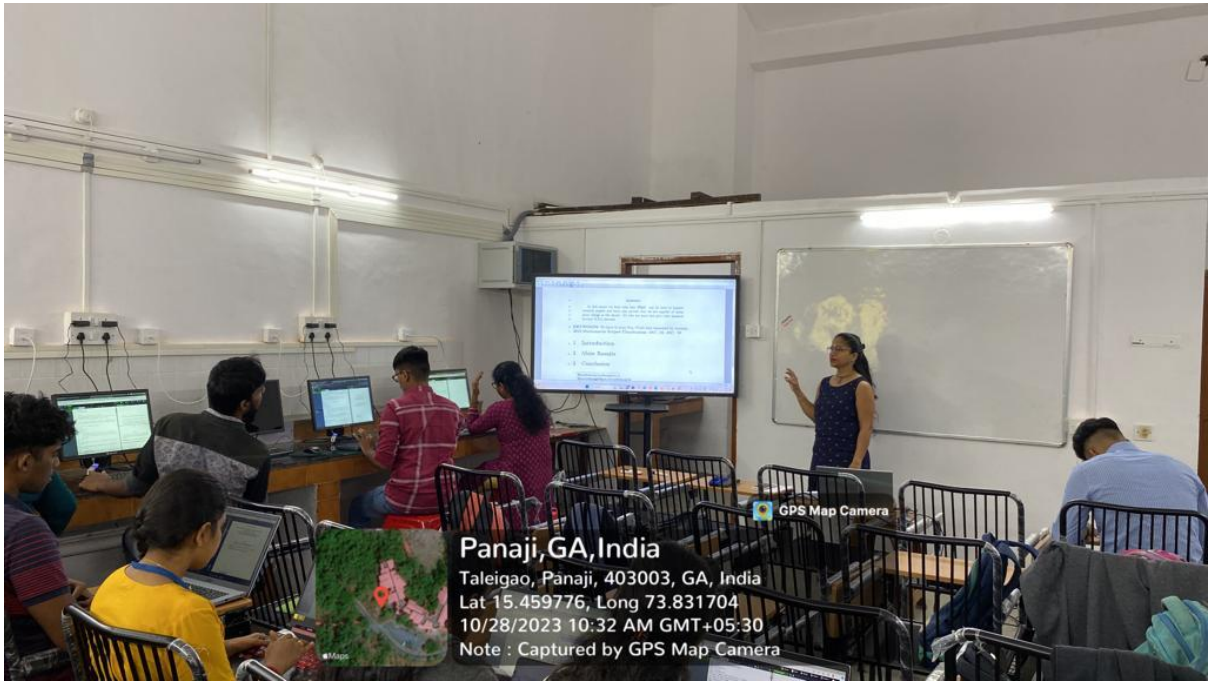
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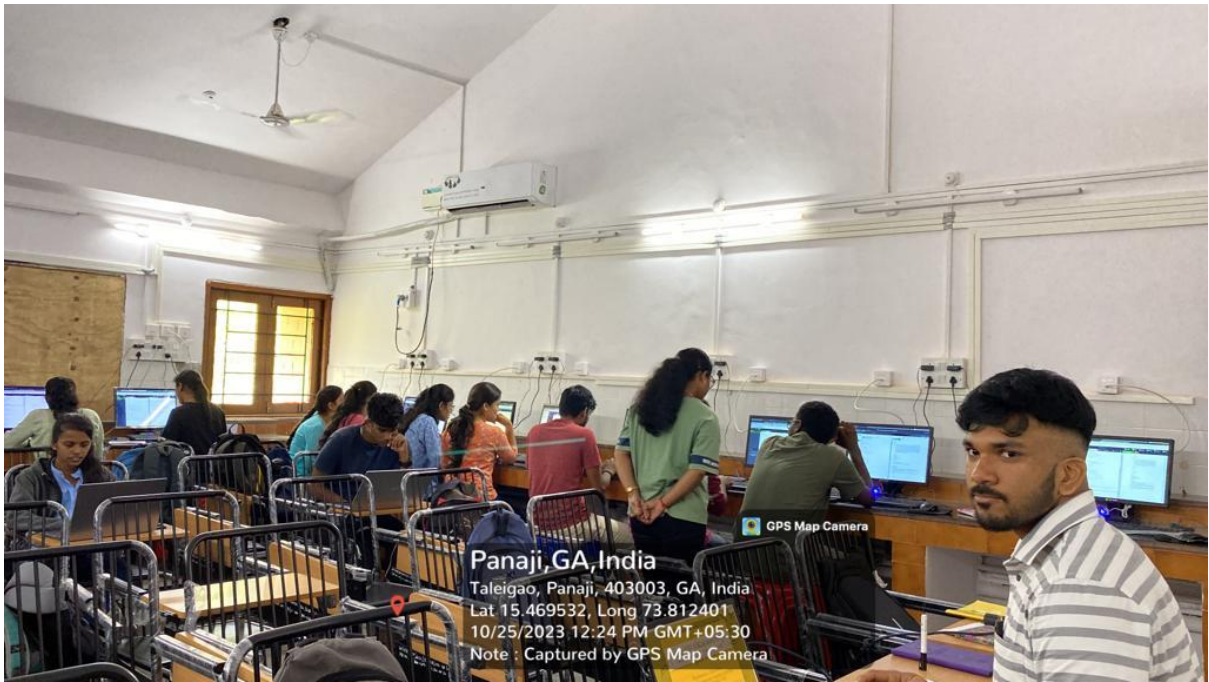


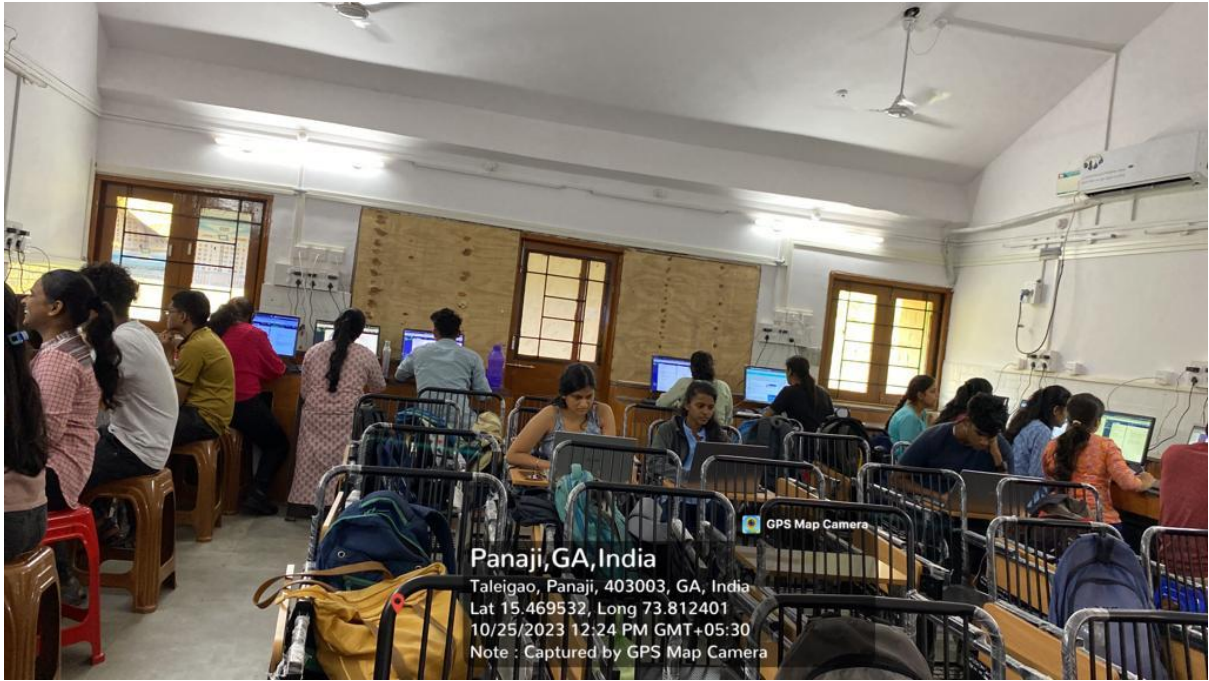
Panaji, GA, India
Taleigao, Panaji, 403003, GA, India
Lat 15.459859, Long 73.831760
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Note : Captured by GPS Map Camera



Panaji, GA, India
Taleigao, Panaji, 403002, GA, India
Lat 15.459919, Long 73.831799
10/28/2023 10:32 AM GMT+05:30
Note : Captured by GPS Map Camera









Panaji, GA, India

Taleigao, Panaji, 403003, GA, India

Lat 15.466987, Long 73.821401

10/26/2023 10:56 AM GMT+05:30

Note : Captured by GPS Map Camera