



DAYANANDA SAGAR COLLEGE OF ENGINEERING

An Autonomous Institute affiliated to Visvesvaraya Technological University (VTU),

Approved by AICTE and UGC, Accredited by NAAC with 'A' grade

ISO 9001-2015 Certified Institution

Report on Faculty Development Program

Program

One Week National Level Online Faculty Development Program on “Transforming Academic Publishing with LaTeX for Innovative Educators” organized by the Department of Mathematics, DSCE in association with Spoken Tutorial, IIT Bombay.

Date

05/02/2025 to 11/02/2025

Preamble:

The Department of Mathematics, Dayananda Sagar College of Engineering, in association with Spoken Tutorial, IIT Bombay, organized a One Week National Level Online Faculty Development Program (FDP) on "Transforming Academic Publishing with LaTeX for Innovative Educators" from February 5 to February 11, 2025. The aim of the FDP was to equip faculty members with the skills to effectively use LaTeX for creating precise, professional, and impactful academic documents.

Objectives

- Equip educators with the skills to use LaTeX for creating precise and professional academic documents.
- Enhance participants' ability to format equations, tables, figures, and bibliographies efficiently.
- Foster innovation in academic publishing and teaching methodologies through structured documentation.
- Provide hands-on, self-paced learning through IIT Bombay's Spoken Tutorial platform for effective skill development.

Outcomes

- Participants gained proficiency in using LaTeX for academic writing and document formatting.
- Improved ability to create well-structured research papers, reports, and presentations.
- Enhanced knowledge of mathematical typesetting, bibliography management, and Beamer presentations.
- Increased efficiency in academic publishing through automation and advanced formatting techniques.
- Greater confidence in using LaTeX for innovative and professional documentation.



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Report

The Department of Mathematics, Dayananda Sagar College of Engineering, in association with Spoken Tutorial, IIT Bombay, organized a One Week National Level Online Faculty Development Program (FDP) on "Transforming Academic Publishing with LaTeX for Innovative Educators" from February 5 to February 11, 2025. The objective of the FDP was to equip faculty members with the skills to effectively use LaTeX for creating precise, professional, and impactful academic documents. By fostering innovation in documentation and teaching methodologies, the program aimed to empower educators to enhance their creativity, streamline workflows, and contribute to advancements in academic publishing.

Academicians, including faculty members, educators, and research scholars, were invited to participate in the program. The FDP was conducted in a flexible online mode, allowing self-paced learning through audio-video tutorials. Participants had the opportunity to access the learning materials at their convenience. Detailed information and the schedule were shared with all registered participants via email and WhatsApp. The program was led by Dr. Radha Gupta, Professor and Head of the Department of Mathematics at Dayananda Sagar College of Engineering, and Ms. Selva Sharmila V, SPOC of IIT Spoken Tutorial at DSCE. The coordinators for the event were Dr. Rose Bindu Joseph P, Assistant Professor and IIC Coordinator, Department of Mathematics, DSCE, and Ms. Sandra Jestine, Assistant Professor, Department of Mathematics, DSCE. Additionally, all faculty members of the Department of Mathematics, DSCE, were actively involved in organizing the event.

The inaugural function of the FDP took place on February 5, 2025, at 10:00 AM via Google Meet. The keynote speaker for the event was Dr. C. Vijayalakshmi, Professor and Head of the Department of Statistics and Applied Mathematics at the Central University of Tamil Nadu, Thiruvavur. Dr. Radha Gupta, Professor and Head of the Department of Mathematics at DSCE, welcomed the guests and participants, followed by an introduction of the keynote speaker by Dr. Rose Bindu Joseph. Dr. C. Vijayalakshmi then delivered an engaging two-hour session on "Introduction to LaTeX," in which she provided practical examples to help participants understand the fundamental concepts of LaTeX. Mrs. Chaitra Gawade, Training Manager from IIT Bombay, also addressed the participants, providing an overview of the IIT Spoken Tutorial platform and explaining the guidelines for the FDP.

Throughout the FDP, course materials were provided to each participant in the form of soft copies. The program covered a wide range of topics, starting from basic document preparation to advanced typesetting techniques. Participants were introduced to the installation of LaTeX on Windows using TeXworks, report writing, letter writing, mathematical typesetting, equations, and numbering equations. They also explored tables, figures, bibliography management, and creating presentations using Beamer. Intermediate topics included feedback diagrams with mathematical notations, defining custom commands and environments, writing LaTeX style files, and typesetting in Indic languages. Advanced concepts such as Beamer themes and animations were also covered to enhance presentation aesthetics. Through self-



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paced learning with audio-video tutorials, the FDP aimed to provide faculty members with the expertise to create professional, structured, and innovative academic documents using LaTeX.

A total of 132 participants actively took part in the FDP, including 77 participants from Dayananda Sagar College of Engineering. The event received an overwhelming response from faculty members, educators, and research scholars from various institutions across the country. The FDP successfully enhanced the participants' knowledge and skills in LaTeX, equipping them with tools to improve their academic publishing capabilities and documentation practices.

Attendance:

Participants List -Dayananda Sagar College of Engineering				
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1	NAGARATHNAMMA	K G	rohini-maths@dayanandasagar.edu	Female
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2	DR. YOGESHA H C	Nagarjuna College of Engineering & Technology	Karnataka
3	VISHWAS KHARE	S.S.R College of Arts Science Commerce	Dadra and Nagar Haveli
4	Dr. SANJEEV KUMAR	Government College Dhaliara	Himachal Pradesh
5	RESHMI POULOSE	St. Xavier's College, Thumba	Kerala
6	GEETA SHIVAPUJI	City Engineering College	Karnataka
7	Syed Mohiuddin	City Engineering College	Karnataka
8	DISHA ARVINDBHAI SHAH	Indus University	Gujarat
9	Dr. Milankumar Kansagara	City Engineering College	Karnataka
10	Karka Sandhya Rani	Government Degree College, Dharpally	Telangana
11	Swamy J S T	Ballari Institution of Technology and Management	Karnataka
12	Vanitha G R	City Engineering College	Karnataka
13	TIRTHRAJ VALUBHAI	Shantilal Shah Engineering College, Bhavnagar	Gujarat
14	Dr. RUBY R	Government College Chittur	Kerala
15	Lekhana K	Cambridge Institute Of Technology North Campus, Bangalore	Karnataka
16	Sharma Vikas Vijayprasad	Institute of Infrastructure, Technology, Research and Management	Gujarat
17	Dr. Kirthiga M	R.V. College of Engineering	Karnataka



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18	Dr. Saritha	J S S Academy of Technical Education	Karnataka
19	Dr. Vyshnavi D	R.V. College of Engineering	Karnataka
20	Sunil Kumar	Indraprastha College for Women	Delhi
21	Sushmitha N	R V College of Engineering	Karnataka
22	Prof. Poornima Kulkarni	R.V. College of Engineering	Karnataka
23	Dr.Preety Poswal	Nirankari Baba Gurbachan singh Memorial (NBGSM) College	Haryana
24	Dr.Nagaveni K	Ballari Institution of Technology and Management	Karnataka
25	Akhila T A	VIT University	Tamil Nadu
26	AJAY PRINSTON PINTO	Srinivas Institute of Technology, Valachil	Karnataka
27	SANGAMESHWAR KUNCHIGI	Dayananda Sagar College of Engineering, Bangalore	Karnataka
28	swathi N	Nagarjuna College of Engineering & Technology	Karnataka
29	VANDANA R	Cambridge Institute Of Technology North Campus, Bangalore	Karnataka
30	Sruthi Chundakkaran	City Engineering College	Karnataka
31	Pratibha Tonashal	City Engineering College	Karnataka
32	R Sujatha	City Engineering College	Karnataka
33	Dr. D. SHAIK MEERA	Ballari Institution of Technology and Management	Karnataka
34	Sudha George Valavi	City Engineering College	Karnataka
35	Sathishkumar Murugesan	SRM Institute of Science and Technology, Chengalpattu	Tamil Nadu
36	Janavi R	City Engineering College	Karnataka
37	Mihirkumar H	Veer Narmad South Gujarat University	Gujarat
38	Swathi M	RNS Institute of Technology, Bangalore	Karnataka
39	Sowmya Shree M K	RN Shetty Institute of Technology	Karnataka
40	Mayasree O	Sahrdaya College of Engineering and Technology	Kerala
41	Sukhila Krishnan	Sahrdaya College of Engineering and Technology	Kerala
42	Siji Thomas	Sahrdaya College of Engineering and Technology	Kerala
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50	Annapurna T	Ballari Institute of Technology and Management	Karnataka
51	Bhuvaneshwari R	K. L. E. I. T Hubli	Karnataka
52	Dr. Rohith Raja M	Christ University, Bangalore Yeshwanthpur Campus	Karnataka
53	Vijay Anand Manickam	College of Engineering CEG guindy Chennai	Tamil Nadu
54	Derry Chris B	College of Engineering CEG guindy Chennai	Tamil Nadu
55	Lokesh Narendhiran K	College of Engineering CEG guindy Chennai	Tamil Nadu

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "DAYANANDA SAGAR COLLEGE OF ENGINEERING" and "DEPARTMENT OF MATHEMATICS". The slide content includes: "Spoken Tutorial, IIT Bombay", "Transforming academic publishing with LaTeX for innovative educators", "Present 05-02-2025 - 11:00-2025", "KEYNOTE SPEAKER", "Dr. C. Vijayalakshmi", "Professor & Head, Department of Statistics and Applied Mathematics, Central University of Tamil Nadu, Madurai - 625018", "TOPIC: INTRODUCTION TO LATEX", "05 February 2025", "Join Online", "10:00AM", and a list of names: "Dr. Indira Chandra V", "Dr. Rose Matha Joseph P & Dr. Nandini Jordan", "Dr. Radha Gupta". The right sidebar shows four participants: Chaitra H Gawade, Rose Joseph, C.Vijayalakshmi, and Dr. Radha Gupta. Below them are icons for "62 others" and "Hoor Banu". The bottom status bar shows the time as 10:15 AM, the meeting ID as adx-sity-rms, and the system clock as 10:15 on 05-02-2025.



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The screenshot shows a Google Meet interface with a presentation slide titled "Spoken Tutorial, IIT Bombay". The slide content includes:

- DAYANANDA SAGAR COLLEGE OF ENGINEERING
- DEPARTMENT OF MATHEMATICS
- cordially invites you for the Inauguration function of
- Spoken Tutorial, IIT Bombay**
- Online Level I & II and IIT Bombay
- Transforming academic publishing with LaTeX for innovative educators
- From 05-02-2023 - 11-02-2023
- KEYNOTE SPEAKER
- Dr. C. Vijayalakshmi
- Professor & Head,
- Department of Statistics and Applied Mathematics,
- Central University of Tamil Nadu,
- Villupuram - 605007
- TOPIC: INTRODUCTION TO LATEX
- 05 February 2023
- 10:00AM
- Join Online
- https://www.spokentutorial.org/
- Dr. Indira Murthy V
- Dr. Rose Matha Joseph P & Dr. Radha Arjun
- Dr. Radha Gupta

The Meet interface shows participants: Chaitra H Gawade, Rose Joseph, C.Vijayalakshmi, Dr Radha Gupta, and Hoor Banu. The bottom status bar indicates 10:16 AM | adx-sity-rms.

The screenshot shows a Google Meet interface with a presentation slide titled "Why Spoken Tutorial! - For Students". The slide content includes:

- Lab-related courses to enhance their academic performance
- Focus on practical than theory
- Lucrative open source software – Python, Drupal etc!
- Any time, Anywhere! No fixed timings
- User-friendly – side-by-side learning and practice
- Study offline, No internet required
- Technical queries on the Forum
- Certificate of training and completion from Spoken Tutorial IIT Bombay
- No limit on certificates
- Advanced courses for Job skills. Added advantage to build your resume
- Flexibility in test timings
- Job Recommendation Portal
- Participate in job fairs organised by Spoken Tutorial, IIT Bombay

The Meet interface shows participants: Chaitra H Gawade, Rose Joseph, Dr Radha Gupta, C.Vijayalakshmi, Dr.Preeti Poswal, Rose Joseph, Radha Halagani, and Hoor Banu. The bottom status bar indicates 10:23 AM | adx-sity-rms.

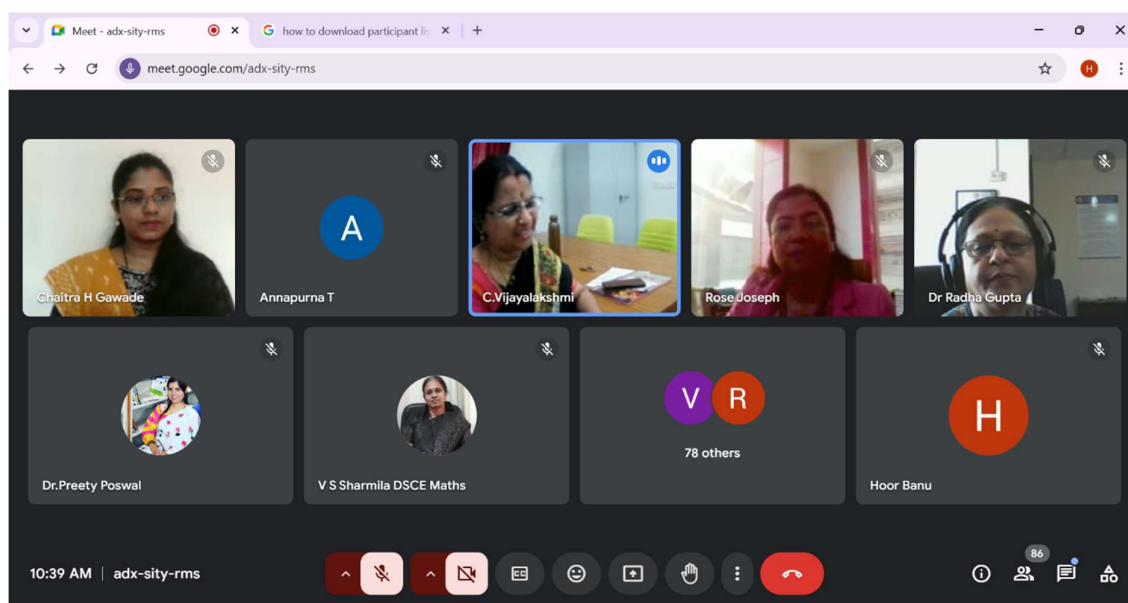


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**DAYANANDA SAGAR
COLLEGE OF ENGINEERING**



**Department of Mathematics
in association with
Spoken Tutorial, IIT Bombay
organizes**

One Week National Level Online
Faculty Development Program On

**"Transforming academic
publishing with LaTeX for
innovative educators"**

05 Feb 2025 to 11 Feb 2025

**E- Certificate will be provided after
completion of the FDP which can
be used for Regularization /
Promotions as per CAS of UGC**

ABOUT DSCE

Dayananda Sagar College of Engineering (DSCE) is an autonomous Institute affiliated to Visvesvaraya Technological University (VTU), approved by AICTE & UGC, Government of India. It has widest choice of engineering branches having 15 Under Graduate courses & 13 Post Graduate courses. In addition, it has 20 Research centers in various branches of engineering catering to research scholars for obtaining Ph.D. degree under VTU. Almost, all the UG programs are accredited by NBA & the college is accredited by NAAC with 'A' grade.

The Institute is spread over 29 acres of land with large infrastructure supported by laboratories with State-of-the-Art, Equipment & Machines. The Central Library with modern facilities and the Digital Library provides the knowledge base for the students. The campus Wi-Fi is equipped with large bandwidth internet facility. The college has good faculty strength with highest professional integrity & committed to the academics with transparency in their actions. The faculty members are research oriented having number of sponsored R & D projects from different agencies such as DST-SERB, DRDO, ISRO, VGST & AICTE.

ABOUT THE FDP

The Department has R & D center, established in 2013, affiliated to Visvesvaraya Technological University, Belagavi, through which it offers Ph.D. programs in various specializations of Mathematics. The department has faculty with research interests in virtually every area of mathematics and they regularly publish quality research papers in peer-reviewed National and International Journals. The department has a strong Industry connection through which the curriculum is designed and implemented and MOU with KSTA and The MathCo. Department has completed a research project from ISRO, 2FDP sponsored from ATAL-AICTE and few DST projects are under review process. To protect the research ideas, department has filed more than 20 national and international patents that are published and granted. The department has a student & Faculty club in Mathematics which provides a unique platform for various disciplines. One of the best practices of the department is to release a newsletter bi-yearly to showcase the activities and growth of the department.

The FDP is designed to equip faculty with the expertise to leverage LaTeX for creating precise, professional, and impactful academic documents. By fostering innovation in documentation and teaching methodologies, this program empowers educators to enhance their creativity, streamline workflows, and inspire groundbreaking advancements in academic publishing.

ABOUT DEPARTMENT OF MATHEMATICS:

The department of Mathematics at DSCE was established in the year 1979 with a vision of "creating lifelong competent and socially innovative Engineers, capable of working in multi-cultural environment in the world". Mathematics, the study of quantity, structure, space, and change, is used as an essential tool in natural sciences, engineering, medicine, and the social sciences. The subject, that seeks to establish the truth by arduous deduction, being the core foundation of the Field of Engineering, aids to build Analytical, Reasoning & Logical skills of the future Engineers and Researchers. Continuous Learning and Research activities satisfy the curiosity of students & it fulfils the objective of our department. The Department has an excellent research reputation, a strong demanding program, and a full range of excellent course offerings. The department offers courses for first & second year BE courses that also includes Labs, Institutional electives during higher semesters, and courses for first-year M.Tech in various branches of Engineering.

Expected Outcomes:

- Understand the basics and advanced features of LaTeX.
- Enhance creativity in academic publishing and teaching.
- Inspire innovation in documentation among educators.

Who can apply:

Academicians, encompassing faculty members, educators, and research scholars, are invited to apply.

Mode of Interaction:

The program will be conducted in a flexible online mode with self-paced learning through audio-video tutorials. Participants can access the learning materials at their convenience, and detailed information, along with the schedule, will be shared via email and WhatsApp.



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Registration open from
15 Jan 2025 to 03 Feb 2025

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Registration Link

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Payment Details

Amount: Rs. 590.00
(including 18% GST)

Account Details for NEFT
Bank Transfer:

- A/C Beneficiary Name: IIT Bombay Project and Consultancy
- A/C Number: 2724101113370
- Bank Name: Canara Bank
- Bank Branch: IIT Powai
- IFSC Code: CNRB0002724

Payment QR:



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Ms. Sowmiya K, Asst.Prof, DSCE



DAYANANDA SAGAR COLLEGE OF ENGINEERING

An Autonomous Institute affiliated to Visvesvaraya Technological University (VTU),

Approved by AICTE and UGC, Accredited by NAAC with 'A' grade

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Kumaraswamy Layout, Bengaluru, Karnataka 560078



DEPARTMENT OF MATHEMATICS

cordially invites you for the Inauguration function of

Spoken Tutorial, IIT Bombay

National Level FACULTY DEVELOPMENT PROGRAM

Transforming academic publishing with LaTeX for innovative educators

from 05-02-2025 - 11-02-2025

KEYNOTE SPEAKER



Dr. C. Vijayalakshmi
Professor & Head,
Department of Statistics and Applied Mathematics,
Central University of Tamil Nadu,
Thiruvavur - 610005

TOPIC: INTRODUCTION TO LATEX



05 February 2025



10.00AM

Join Online

<http://meet.google.com/adx-sity-rms>

Ms. Selva Sharmila V
Coordinator IIT Spoken Tutorial,
Department of Mathematics, DSCE

Dr. Rose Bindu Joseph P & Ms. Sandra Jestine
Coordinator,
Department of Mathematics, DSCE

Dr. Radha Gupta
Professor & Head,
Department of Mathematics, DSCE



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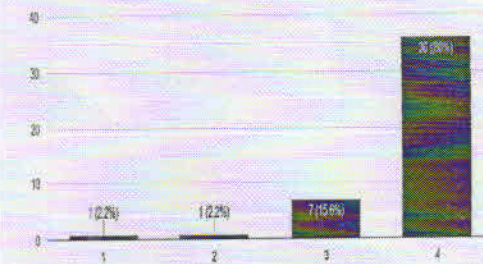
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FEEDBACK REPORT

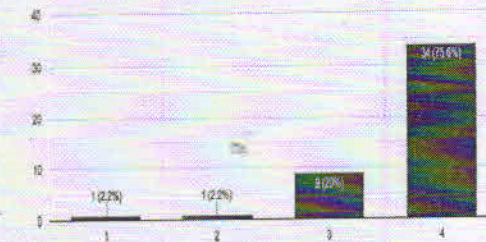
1. How would you rate your overall experience with the course videos?

45 responses



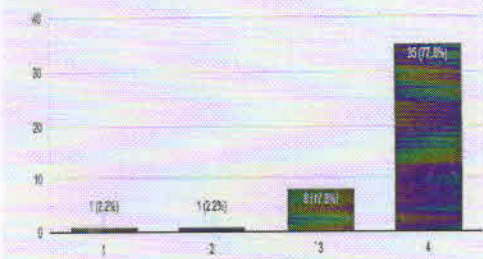
2. How would you rate the quality of the content presented in the videos?

45 responses



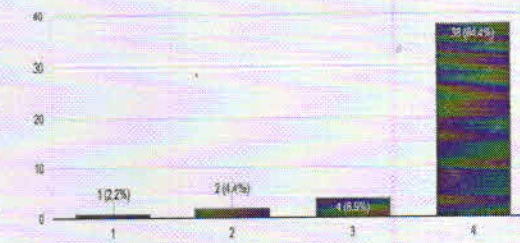
3. How would you rate the quality of the visuals and audio in the videos?

45 responses



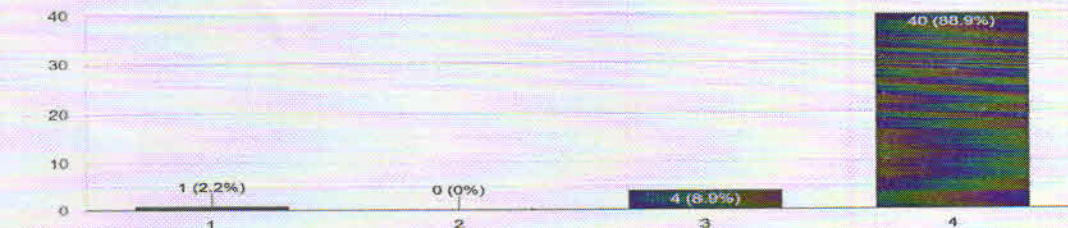
4. Would you recommend these videos to others who want to learn LaTeX?

45 responses



5. How would you rate the communication from the organizers before, during, and after the course?

45 responses



HOD



Principal

Principal

Dayananda Sagar College of Engineering
Kumaraswamy Layout, Bangalore -560 111.