MARUDHAR KESARI JAIN COLLEGE FOR WOMEN
(AUTONOMOUS)

VANIYAMBADI, TIRUPATTUR DT – 635 751

- Recognized u/s 2(f) & 12(B) of UGC Act 1956
- Permanently Affiliated to Thiruvalluvar University
- Supported by DST - FIST | DBT-STAR College Scheme

NAAC A+ | ★ Star Rated INSTITUTIONS' INNOVATION COUNCIL

PG & Research Department of Mathematics & Physics

Organizes

5 Day FDP

on

PYTHON PROGRAMMING

```
print("Hello, Python!")
for i in range(5):
    print(i)
```

Date : 22.10.2026 to 27.10.2026 | Time : 10.00 am | Venue : Data Science Lab

Resource Persons

Day 01 - 22.10.2026



Dr. K. Priya

Dean SOC & Asst. Professor
Department of Computer Science
MKJC (A), Vaniyambadi

TOPIC : *Fundamental of Python Programming*

Day 02 & 03 - 23,24.10.2026



Dr. N. Priya

Dean Research & Associate Professor
PG Department of Computer Science,
Srimathi Devkunvar Nanalal Bhatt Vaishnav College for women
Chromepet, Chennai

TOPIC : *Python Across Disciplines: Scientific Computing, Data Analytics and Intelligent Applications*



Dr. D. Sumathi

Day 04 & 05 - 26,27.10.2026

Associate Professor
Department of Computer Science and Engineering,
CMR Institute of Technology, Bangalore

TOPIC : *Python Programming using AI Tools*
Mini Project using Python Programming

Learn Code Build Your Future

Supported by
DBT STAR COLLEGE SCHEME

Sri. V. Dilip Kumar Jain	Sri. Avant Singhvi	Dr. M. Inbavalli	Ms. N. Mahalakshmi & Dr. P. Praveena
President	Secretary	Principal	Conveners

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Tirupattur District

MARUDHAR KESARI JAIN COLLEGE FOR WOMEN (AUTONOMOUS), VANIYAMBADI
(A Project of Sri Marudhar Kesari Jain Trust)

PG & Research Department of Mathematics & Physics

ORGANIZES

5 Day Faculty Development Program

On

"Python Programming"

Supported by DBT Star College Scheme

Date:22.10.2026–27.10.2026 Venue: Data Science Lab

Time: 10.00a.m.

AGENDA

PrayerandTamilThaiVazthu

Day 1(22.10.2026)

Welcome Address	**Ms. S. Jeevitha** Assistant Professor, Department of Mathematics, MKJC(A)
Felicitation	**Dr.M.Inbavalli,** Principal,MKJC (A), Vaniyambadi.
Resource Person Introduction	**Ms. P.G. Monisha,** Assistant Professor, DepartmentofMathematics,MKJC(A)
Honoring	
Session I:	**Dr.K.Priya** Dean SOC & Assistant Professor, MKJC (A), Vaniyambadi. **Topic**: Fundamental of Python Programming

Lunch Break 12.40p.m.– 1.20p.m.

Session II:	**Dr.K.Priya** Dean SOC & Assistant Professor, MKJC (A), Vaniyambadi. **Topic**: Python Programming: Basic Concepts and Applications

Day 2 (23.10.2026)

Welcome Address	**Dr. S. Saravanan** Assistant Professor, Department of Mathematics, MKJC(A)
Felicitation	**Dr.M.Inbavalli,** Principal, MKJC (A), Vaniyambadi.
Resource Person Introduction	**Dr.S. Pallavi,** Assistant Professor, Department of Mathematics, MKJC(A)

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Honoring

Session I:

Dr. N. Priya
Dean Research & Associate Professor,
PG Department of Computer Science,
Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chromepet, Chennai

Topic:Python Across Disciplines: Scientific Computing

Lunch Break 12.40p.m.– 1.20p.m.

Session II:

Dr. N. Priya
Dean Research &Associate Professor,
PG Department of Computer Science,
Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chromepet. Chennai

Topic:Python for Data Analytics and Intelligent Applications

Day 3 (24.10.2026)

Welcome Address

Dr. S. Saravanan Assistant Professor,
DepartmentofMathematics,MKJC(A)

Session I:

Dr. N. Priya
Dean Research & Associate Professor,
PG Department of Computer Science,
Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chromepet, Chennai

Topic:Python for Scientific Computing and Numerical Applications

Lunch Break 12.40p.m.–1.20p.m.

Session II:

Dr.N.Priya
Dean Research & Associate Professor,
PG Department of Computer Science,
Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chromepet, Chennai

Topic:Data Analytics and Intelligent Applications Using Python

Day 4 (26.10.2026)

Welcome Address	**Dr.K.Vedhapriya** Assistant Professor, Department of Physics, MKJC (A)
Felicitation	**Dr.M.Inbavalli,** Principal,MKJC(A), Vaniyambadi.
Resource Person Introduction	**Dr.S. Divya,** Assistant Professor, Department of Physics, MKJC(A)
SessionI:	**Dr.D.Sumathi** Associate Professor, Department of Computer Science and Engineering CMR Institute of Technology, Bangalore, Karnataka **Topic**:Python Programming Using AI Tools

Lunch Break 12.40p.m.– 1.20p.m.

SessionII:	**Dr.D.Sumathi** AssociateProfessor, Department of Computer Science and Engineering CMR Institute of Technology, Bangalore, Karnataka **Topic**:Hands-on Training: Developing a Mini-Project Using Python

Day 5 (27.10.2026)

Welcome Address	**Dr.K.Vedhapriya** Assistant Professor, Department of Physics, MKJC (A)
SessionI:	**Dr.D.Sumathi** Associate Professor, Department of Computer Science and Engineering CMR Institute of Technology, Bangalore, Karnataka **Topic**:AI-Assisted Python Programming and Project Development

Lunch Break 12.40p.m.–1.20p.m.

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SessionII:	**Dr.D.Sumathi** AssociateProfessor, Department of Computer Science and Engineering CMR Institute of Technology, Bangalore, Karnataka **Topic**:Hands-on Mini-Project Development Using Python.
Vote of Thanks	**Ms. N. Sarigha,** Assistant Professor DepartmentofMathematics,MKJC(A)
National Anthem	

*****ALLARECORDIALLYINVITED*****

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Supported by DST-FIST | DBT STAR College Scheme | Re-accredited by NAAC with 'A+' Grade

33 Years of Educational Excellence...

Activity Report

Organized By : PG & Research Department of Mathematics & Physics
Topic / Subject : 5 DAY FDP on PYTHON PROGRAMMING
Duration : 22.10.2026 to 27.10.2026
Time & Venue : 10.00 AM Daily | Data Science Lab (New Block)
Supported By : DBT STAR COLLEGE SCHEME

Objectives (Input):

- **Fundamental Coding Orientation:** To introduce higher-education faculty members to the structural frameworks, syntax paradigms, and core principles of the Python programming language.
- **Instrumental Infrastructure Competency:** To familiarize educators with contemporary interactive developer environments and automated data processing engines.
- **Computational Data Resolution:** To explain how scripting packages can simplify time consuming calculation, allowing professors to map complex mathematical systems and equations automatically.
- **Logic Architecture and Verification:** To demonstrate practical steps for formulating script logic, setting operations, compilation routines, and debugging errors.
- **Innovative Technical Awareness:** To establish institutional knowledge regarding modern intelligent tools, code synthesis suites, and prompt engineering parameters.
- **Applied Lab Dexterity:** To build the teachers' self-reliance by using structured hands-on modules and independent script execution workflows.
- **Academic Curricular Integration:** To motivate the participating faculty to deploy Python packages in daily empirical research and everyday classroom demonstrations.

Methodology (Process):

The intensive training itinerary was strategically structured and successfully executed inside the Data Science Lab using a computer-driven educational approach. This institutional initiative was formally organized by the **PG & Research Department of Mathematics** and the **Department of Physics**, running completely under the patronizing sponsorship of the national financial grant framework of the **DBT STAR COLLEGE SCHEME**. All resource experts utilized high-definition overhead projection equipment and server deployment tools to transmit live programming actions directly to the 23 faculty members seated at individual desktop workstations, using computers as the primary interactive learning medium.

- **Day-I (22.10.2026) – Fundamental of Python Programming:** *Resource Expert: **Dr. K. Priya** (Dean & Assistant Professor, Department of Computer Science,MKJC(A))Vaniyambadi.*

  Dr. K. Priya initiated the operational training workspace by guiding the math and physics educators directly through environmental runtime setups and foundational Python programming frameworks. The session focused deeply on enabling teachers to use basic Python code blocks to expedite and streamline their repetitive daily departmental tasks. Faculty members learned to write foundational scripts utilizing variables, conditional logic statements, loop lifecycles, and standard indentation rules to automate manual administration workflows. Rather than focusing solely on syntax theory, the FDP provided concrete practical methods to process student spreadsheet databases, perform rapid attendance data aggregation, sort academic records, and compile institutional audit data to completely eliminate manual delays.

- **Day-II & III (23.10.2026 & 24.10.2026) – Python Across Disciplines:** *Resource Expert: **Dr. N. Priya** (Dean Research & Associate Professor, PG Department of Computer Science, Srimathi Devkunvar Nanalal Bhatt Vaishnav College for Women, Chennai).*

  This intermediate phase expanded terminal commands directly into complex scientific computations. Dr. N. Priya demonstrated automated script configurations to plot data curves, structure algebraic arrays, and resolve matrix operations, helping math and physics educators bridge pure formulas with automated logic frameworks.Dr. N. Priya thoroughly trained the faculty members on using **Google Colab** for cloud-based code execution without local setup constraints. She further demonstrated how to leverage **GitHub** software for version control, repository management, and code tracking. A vital practical session was dedicated to spreadsheet data automation, where teachers learned how to use **Python programming scripts** to read, manipulate, write, and manage student and laboratory data inside Excel sheets seamlessly, bridging scientific equations with automated database records.

- **Day-IV & V (26.10.2026 & 27.10.2026) – Python Programming using AI tools:** *Resource Expert: **Dr. D. Sumathi** (Associate Professor, Department of Computer Science and Engineering, CMR Institute of Technology, Bangalore).*

  The concluding segment focused heavily on advanced data analytics and automation utilizing professional artificial intelligence developer platforms. Dr. D.Sumathi pioneered the core integration of industrial-grade data science packages, providing specialized hands-on training on the installation and application of the **Pandas** and **NumPy** software environments. Faculty members were trained in wrangling data, structuring Series/Data Frames, and executing multi-dimensional numeric algorithms. Additionally, she demonstrated the operational frameworks of **ChatGPT, Google Gemini, and Google Anti-Gravity** simulation models to write, format, optimize, and debug source code efficiently. Under live supervision, the 23 educators successfully applied these tools to construct and execute functioning mini-projects customized for grade tracking and laboratory formula analysis directly on their systems.

- Interdisciplinary Research Scaling: The FDP established a solid foundation for cross-departmental data automation, expanding research avenues via Python analytics, NumPy calculations, and Pandas data structures.
- Technical Intellectual Pool: Created a certified core of technical anchors inside the college, strengthening the institution's capability to run data science paths under the funding scheme.
- Interdisciplinary Data Research Infrastructure: Established a collaborative technological framework for cross-campus research automation, allowing faculty members to execute advanced research calculations via Python analytics.
- DBT Star Scheme Technical Anchors: Formed a highly qualified core technical group of 23 trained faculty anchors within the college, enhancing institutional readiness to drive future analytics and data science paths.

Sustainable Development Goals (SDG Chain) :

- SDG 4: Quality Education – Transforms instructional delivery standards by training higher-education professors in modern computing architectures, cloud interfaces, and automated data processing.
- SDG 5: Gender Equality – Strengthens women educators' presence in professional STEM fields by equipping them with critical technical capabilities, version control skills, and code development methods.
- SDG 9: Industry, Innovation, and Infrastructure – Unites traditional pure sciences with logic workflows, creating an active environment for technical research innovation and automated data management.
- SDG 17: Partnerships for the Goals – Represents a highly successful cross-campus resource deployment strategy enabled by a national grant under the DBT Star College Scheme, uniting Mathematics and Physics departments.

Head of the Department	DBT STAR College Coordinator	Dean	IQAC Director	Principal

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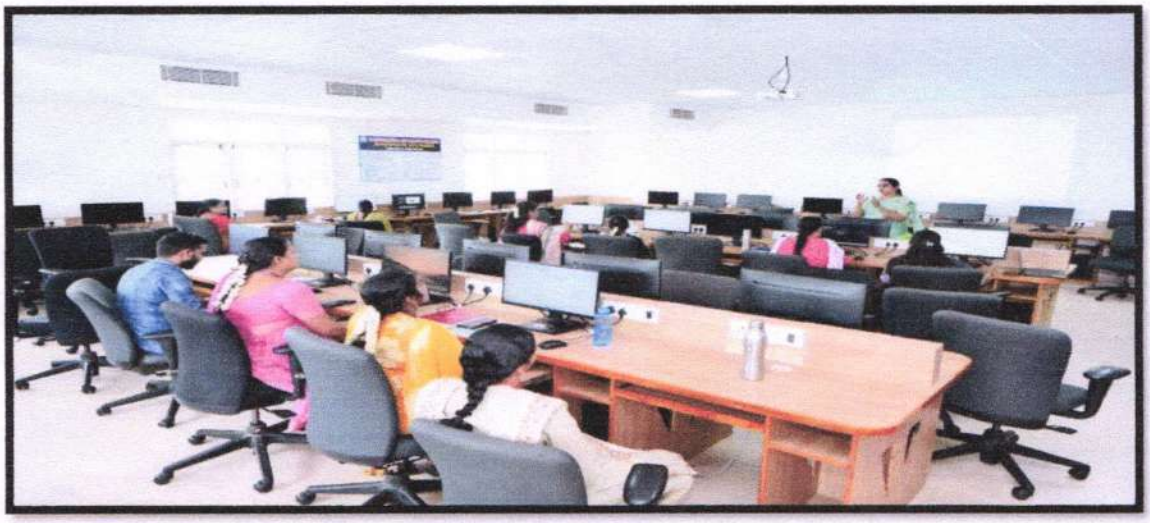
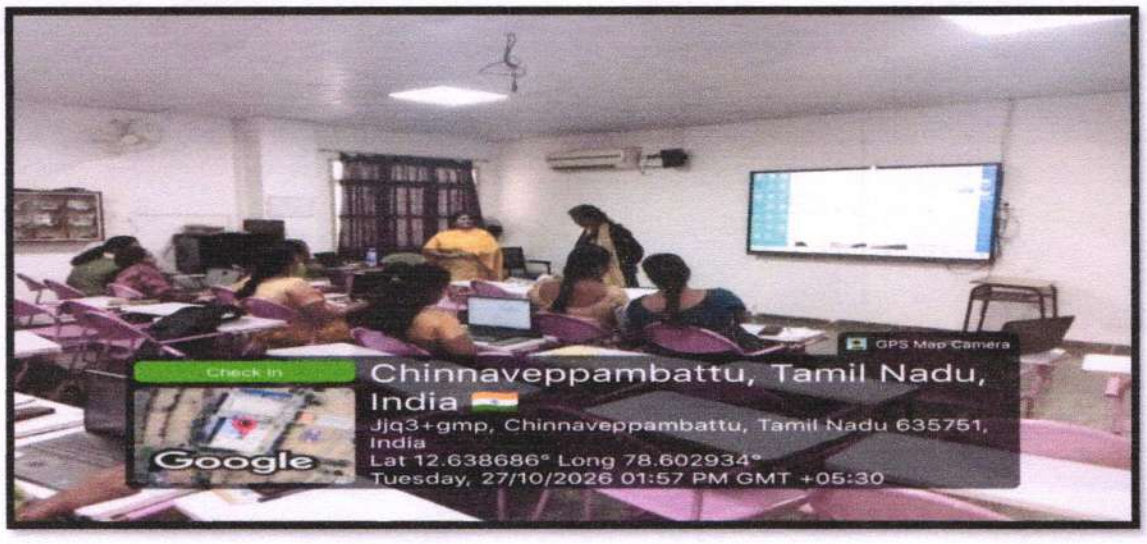
33 Years of Educational Excellence...

Topic: 5 DAY FDP ON PYTHON PROGRAMMING
Date: 22.10.2026 to 27.10.2026
Organized by: PG & Resource Department of Mathematics & Physics
Supported by
DBT Star College Scheme
Venue: Data Science LAB



Faculty members are actively participating in the lecture session conducted by the resource person during the workshop.



The resource person interacting with the faculty members, who are actively responding to the questions during the workshop session.

Principal

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