

REPORT ON ONE-DAY WORKSHOP ON “PYTHON BASICS FOR MECHANICAL ENGINEERS”

The Department of Mechanical Engineering, Bishop Jerome Institute, Kollam, organized a one-day workshop on “Python Basics for Mechanical Engineers” on October 23, 2025, from 9:00 AM to 4:30 PM at the Mechanical CAD Laboratory. The event aimed to introduce the fundamental concepts of Python programming and its applications in mechanical engineering, design automation, and data analysis.

The session was handled by **Dr. Shiju Thomas M.Y, Associate Professor, Department of Computer Science, Rajagiri College of Social Sciences, Kochi**. Dr. Shiju Thomas began the session with an overview of the importance of programming knowledge in modern engineering fields, highlighting how Python is used in first year classes. The workshop covered key programming concepts such as data types, control statements, functions, and file handling, along with practical demonstrations relevant to engineering applications.

42 Students actively participated in hands-on exercises, developing simple Python scripts for numerical computations and problem-solving. The interactive nature of the workshop encouraged learners to explore Python as a versatile tool in mechanical design and analysis.

Such programs are especially beneficial for first-year engineering students, as they help build a strong foundation in computational thinking and problem-solving skills at an early stage of their academic journey. Introducing programming concepts early enhances their confidence to integrate technology with traditional engineering knowledge, preparing them to meet the evolving demands of Industry 4.0 and future interdisciplinary challenges.

The event was convened by Asst. Prof. Rony Mohan, Head of the Department of Mechanical Engineering, and coordinated by Asst. Prof. Tony John and Asst. Prof. Nevin Nelson. The department expressed gratitude to the management and the resource person for their support in making the workshop a success. The session concluded with an interactive Q&A and a vote of thanks delivered by Prof. Nevin Nelson.

The workshop successfully enhanced students’ computational skills and inspired them to integrate programming into mechanical problem-solving and research applications.

Coordinator
Asst. Prof. Nevin Nelson
Advisor, S1 ME

Convener
Asst. Prof. Rony Mohan
HoD, Dept. of ME



BISHOP JEROME INSTITUTE

Fatima College Road, Kollam 691001

Department of Mechanical Engineering

Python basics for Mechanical Engineers

October 23th , 2025

Time : 09:00 AM - 04:30 PM

Venue : Mechanical CAD LAB

Resource Person

Dr. Shiju Thomas M.Y

Associate Professor, Dept. of CS
Rajagiri College of Social Sciences



Convenor

**Asst. Prof RONY MOHAN,
HoD, ME, BJI**

Co-ordinators

**Asst. Prof Tony John, ME, BJI
Asst. Prof Nevin Nelson, ME, BJI**



