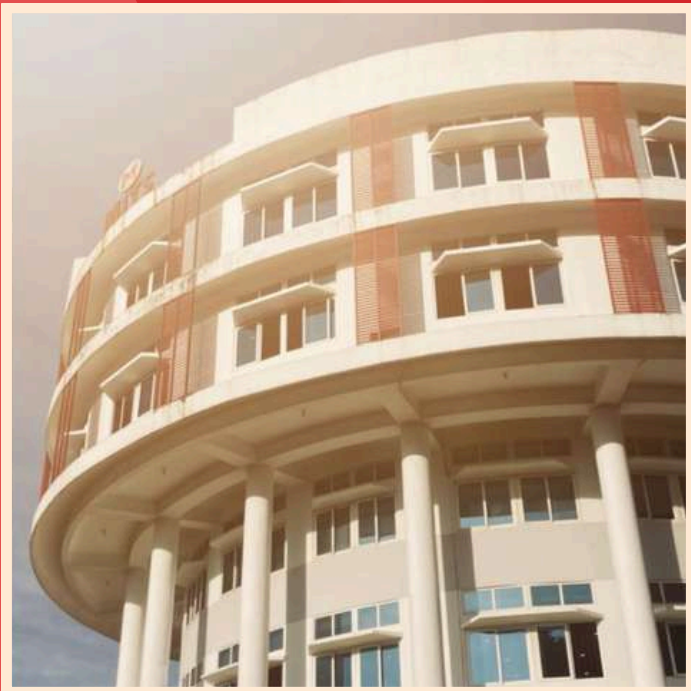




Muthoot
Institute of Technology & Science

THE BLOG

NEWSLETTER



VOL 6 | ISSUE 3

**SEPTEMBER-
DECEMBER
2024**



VISION

To be recognized as a socially accountable thought leader in applications of computational technologies and a centre of excellence in solving complex and cross-disciplinary problems.

MISSION

- 1. Develop pedagogical practices that help equip students with the ability to self-learn and reason.**
- 2. Improve ability to communicate on complex engineering activities and interpersonal skills by developing proper training methods and professional networking.**
- 3. Improve problem solving ability by promoting computational thinking and working on cross-disciplinary projects.**
- 4. Create and sustain networks in professional, academic and startup environments to stay updated with changes in the field of Computer Science and Engineering.**
- 5. Instill social commitment in students and faculty by engaging in spreading computer literacy and other socially relevant services.**
- 6. Promote research towards developing insight into complex problems.**

Program Educational Objectives (PEOs)

PEO1. Graduates will exhibit the ability to adapt well to the professional environment and contribute to the goals of the organization they are associated with.

PEO2. Graduates will exhibit thought leadership in solving complex problems in their respective domains.

PEO3. Graduates will be socially committed lifelong learners who strive for constantly upgrading and sharing their knowledge to nurture a healthy and open eco-system around them.

Program Outcomes (POs)

PO1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6. Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Program Outcomes (POs)

PO7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO1. Design, Develop, Analyze, and Optimize, innovative computational solutions for Real-time problems by leveraging core computer science and engineering principles, advanced algorithms, and programming techniques.

PSO2. Apply concepts in hardware architecture and programming to manage high performance systems like cloud, grid, and cluster computing

STUDENT ACHIEVEMENTS



ABEY JOHN PRAMOD

2023-2027 CSA

**First prize in ClickOnam-Onam
Photography Contest by Media
Club, MITS**



CHRISTY DENEES P

2023-2027 CSA

**First prize (team) in KTU D Zone
Chess competition held at MACE,
Kothamangalam**



HAFEEZ MOHAMED

2023-2027 CS CY

**2nd prize at the Capture The Flag
at Devsummit'24**

MERIN ELSA BINOY

2024-2028 CS CY

**First prize in KTU D-zone basketball tournament
held at MITS.**

**LIYA ELIZABETH JOSEPH AND JOSHIYA VIJAYA
RAJA**

2024-2028 CS CY

**D-Zone badminton tournament 1st runner ups held at
AISAT Kalamassery and Interzone badminton
tournament 1st runner ups held at St. Thomas Arts and
Science College, Pala**

STUDENT ACHIEVEMENTS

NPTEL CERTIFICATIONS



Arjun M
2023-2027 CS A
NPTEL Elite Silver 2%
topper certification in
Problem Solving Through
Programming in C



Athishta P A
2023-2027 CS A
NPTEL Elite Silver
certification in The Joy of
Computing Using Python



Harikesh R Menon
2023-2027 CS A
NPTEL Elite Silver
certification in The Joy of
Computing Using Python



Pranav R Mallia
2022-2026 CS B
NPTEL- SILVER+ELITE-
certification -Python for
datascience



Athira V
2023-2027 CS A
NPTEL Elite Silver
certification in The Joy of
Computing Using Python



Abey John Pramod
2023-2027 CS A
NPTEL Elite Silver 2%
topper certification in
Problem Solving Through
Programming in C



Adithyan Raj
2023-2027 CS A
NPTEL Elite Silver
certification in Python for
Data Science



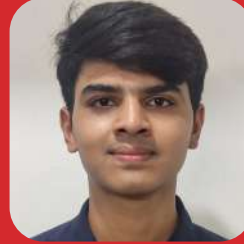
Rahul K
2022-2026 CS B
NPTEL - Elite- certification
-Python for datascience



Adithya K S
2023-2027 CS A
NPTEL Elite certification in
The Joy of Computing Using
Python



Aadithya P
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



Albin Soby
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



Allen Ajith
2023-2027 CS A
NPTEL Elite certification in
Google Cloud Computing
Foundations.

STUDENT ACHIEVEMENTS

NPTEL CERTIFICATIONS



Allen Paul Alias
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



Harikrishnan P S
2022-2026 CS B
NPTEL-Elite - Database
Management System



**Ashlin Joe
Thekkekuttu**
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



**Asiya Muhammed
Sali Thachavallath**
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



**Nandana Mariam
Peter**
2022-2026 CS B
NPTEL-Elite - Introduction
to Machine Learning



Vaishnav S Nair
2022-2026 CS B
NPTEL - Elite- certification -
Python for datascience



Cereena George
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



Christo Berly
2023-2027 CS A
NPTEL Elite certification in
Programming, Data
Structures and Algorithms
using Python



Christy Denees P
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



Fathima Mehrin V S
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



Febin Tom Mathews
2023-2027 CS A
NPTEL Elite certification in
Problem Solving Through
Programming in C



Riona Mathew
2022-2026 CS B
NPTEL- ELITE-certification-
Datascience for engineers

STUDENT ACHIEVEMENTS

NPTEL CERTIFICATIONS

N JAGANNATHAN

2022-26 CS A
Programming Data
structures and Algorithms
using Python -Elite + silver
(top 2%)

MIDHUN JOSEPH

2022-26 CS A
NPTEL - DBMS -Elite + Silver
(top 5%)

AKSHAY FRANCIS

2022-2026 CS A
NPTEL Certification -DBMS -
Elite+Silver,Top 5%

ALVIN VINOD JOHN

2022-26 CS A
NPTEL Certification - Joy of
computing in Python elite+
silver

RAKENDU K T

2022-2026 CS ANPTEL
Certification - Joy of
computing in Python -elite+
silver

ANN MARIA BABU

2022-26 CS A
NPTEL Certification - Joy of
computing in Python -elite+
silverC

DIJUL M

2022-26 CS A
NPTEL Certification - Joy of
computing in Python Elite

ANANTH KRISHNAN R

2022-26 CS A
NPTEL Certification - The joy
of computing using Python -
Elite

STUDENT ACHIEVEMENTS

NPTEL CERTIFICATIONS

NIVEDITHA SHAJI

2022-26 CS A

NPTEL Certification-
Programming In Java

RAPHEL JOHNSON

2022-26 CS A

Programming Data
structures and Algorithms
using Python

NIDHI JAIMON

2022-26 CS A

NPTEL Certification-
Introduction to
Semiconductor devices

AHIL BABY

2022-26 CS A

NPTEL-programming
datastructure and
algorithm using python

VAISHNAV S

2022-26 CS A

NPTEL Certification

ATHULRAJ M R

2022-2026 CS B

NPTEL certification -
Python for datascience

STUDENT ACHIEVEMENTS

NPTEL CERTIFICATIONS

2023-2027 CS A

NPTEL certification in Problem Solving
Through Programming in C

-Efy Mary George

NPTEL certification in Programming, Data
Structures and Algorithms using Python

-Adithya Vinod

NPTEL certification in Problem Solving
Through Programming in C

-Devanjana S

Ajina Joseph

Bony Babu

Abishek Prabeesh

STUDENT ACHIEVEMENTS

NPTEL CERTIFICATIONS

2023-2027 CS B

**NPTEL - Problem solving through
Programming in C - Elite Silver and NPTEL -
Programming in Java - Elite Silver
-Jerin Binu**

NPTEL - Programming in Java - Elite

**-Sangeeth S Devan,
Jithin P R, Malavika V,
Vaishnav Lalu
Nandana Krishna
Nanditha K N
Krishna K R
Rifana K Shejir
Vishnu P G
Vedalakshmi B S
Julie Johnson
Swetha Sumesh
Lakshmipriya Retheesh
Sanjana Lakshmi S
Julia Mary James**

STUDENT ACHIEVEMENTS

2020-24 CSE A

Presented a paper titled “Real Time Early Curve Accident Warning System” in 3rd International Conference Paradigm Shifts in Communication, Embedded Systems, Machine Learning and Signal Processing (PCEMS 2024), on 11-12 November 2024 at VNIT, Nagpur.

Adithya M A, Anit Peter, Anitta P Markose, Tania K H, Ms.Jency Thomas

2022-26 CS A

Alwin Aby Mathew

Idea Run 2024 -Selected among the top five teams to present their innovative idea"Ecoloop Acqaponics: Zero waste farming powered by Solar and Insect based recycling" at the IEEE Smart Village Symposium (ISV). The symposium was on November 7 & 8, 2024 at the Dhirubhai Ambani Institute of Information and Communication Technology (DA-ICT), Gandhinagar, Gujarat.

Fathima Hiba P P

**Internship-IBM skills build,
Petro Infotech Private Limited,**

STUDENT ACHIEVEMENTS

2023-2027 CSB

Joanne Alice Thomas

GHCI' 24 Scholar [AI Project Selection]
Useless Projects by TinkerHub [Selection]
Toastmasters Table Topics Competition
[Participation]

Shivani Santhosh Kumar Bhat,
Nousheen Azad, Maria Rose Biju

Nasa Space App Challenge Hackathon
[participation + volunteer]

Miamin Elizabeth Mathew
Qnayds LLP[Internship + Workshop + Quiz]

Muzammil Latheef Seedi
TinyML Hackathon[Participation]

DEPARTMENT ACHIEVEMENTS

CONTINUING EDUCATION CELL

Organized an STTP on Flutter & Dart
Application Development
Organized a workshop on ROS

"LINUX DISTRO FOR ML DEVELOPMENT " A FUNDED PROJECT BY MUTHOOT FINANCE

Capstone Project headed by Ms.Haritha-H &
Ms.Sruthi-S, fund was approved on
September 12, 2024

EXPERT GUIDANCE MEET ON RESEARCH AND COMPUTER VISION (UNDER FOSS CLUB)

A Talk on research and Computer Vision by
Dr.Deepak Mishra, Professor, Dept of Avionics at
Indian Institute of space science and
Technology(IIST), focuses on enhancing faculty
knowledge by enhancing the arena of wisdom
through pragmatismal real time exposure, on the
profound aspects of imaging and deep learning
technology on 5th October 2024.

FACULTY ACHIEVEMENTS



**DR.ANISHIN RAJ
M M**

Published a paper titled "Object Detection in Haze For UAV Images using DCP and YOLO" , IET conference Proceedings, Vol.2024, Issue 23, ICCVIOT, Coimbatore, <https://doi.org/10.1049/icp.2024.4402> (SCOPUS)

Published a paper titled "Tata Motors Stock Price Prediction Using Predictive Artificial Intelligence", IEEE XPLORE (SCOPUS)

Published an article "The Role of Orthogonal Basis Function in Feature Extraction for Machine Learning" in Gyanveshan Vol 9 September 2024

Curriculum committee member for curriculum developed for the "Industrial Training in the IT Sector" course of Additional Skill Acquisition Program, Govt. of Kerala

Judge for Smart India Hackthon at Chinmaya Vishwa Vidya Peetham 2024 held in September 2024



DR.INDU M T

Two day workshop on Exploring Cyber Security Essentials at MITS(19, 20th November 2024)

One day workshop on Matlab - Python Interoperability (21st November 2024)

FDP on Mastering Research Proposals and Design Thinking Approaches(27, 28th November 2024)

FDP on Recent Advances in Computer Vision: Applications and Implementation, NIT Rourkela(6 - 10th December 2024)

**NPTEL Elite Silver Topper 1% certification in Programming in Java
NPTEL FDP on Programming in Java (October 2024)**

**Google Cybersecurity Professional
Certificate (October 2024)**



**DR. RAJESH
CHERIAN ROY**

**ATAL Faculty Development Program
on AI and Emerging Technologies for
Sustainable Energy and Climate
Adaptation at IIIT Kottayam from
25/11/2024 to 30/11/2024.**

**Attended Strategic Plan for Research,
Activities at the Centres of
Excellence of the University (KTU) -
AI, ML, Robotics and Automation
Centre, Model Engineering College on
27th and 28th September, 2024**



DR. SHEENA KURIAN K

**Awarded PhD from CUSAT on "Study,
design and development of Noval
Hybrid Summarization Methods of
Journal Articles" on 19/12/2024**

**Published an article titled " Violence
detection in crowd videos using
nuanced facial expression analysis" in
journal Systems and Soft Computing ,
ScienceDirect. (December 2024)**

**Completed NPTEL online course on JOY
OF COMPUTING USING PYTHON
successfully and secured a certificate
with Elite +Silver (11th October 2024)**



DR. SREENU G

Completed NPTEL online course on Big Data Computing (IIT Kanpur) Aug-Oct 2024) successfully and secured a certificate with Elite +Silver tag(Topper 1%).

Completed NPTEL online course on Cyber Security and Privacy (IITM) (Jul-Oct 2024) successfully and secured a certificate with Elite +Silver tag(Topper 1%).



JENCY THOMAS



**MITHU MARY
GEORGE**

**Published paper titled "Elastic Stack: A Comprehensive Overview",
IEEE Xplore - International conference on Recent Advances in Intelligent Computational Systems (RAICS) 10.1109/RAICS61201.2024.10690099- October 2024**

STTP on " AI: Advanced Machine Learning Techniques & Practical Implementation" organized by Amal Jyothi College of Engineering in association with Elmhurst University, USA (18th to November 23th , 2024)

Presented a paper titled "Improving Malayalam Word Sense Disambiguation by exploiting various semantic features and vectorization methods" at THIRD INTERNATIONAL CONFERENCE ON SPEECH AND LANGUAGE TECHNOLOGIES FOR LOW-RESOURCE LANGUAGES (SPELLL 2024), held at VIT, Chennai (4 - 6th December 2024)

One day workshop on Matlab - Python Interoperability (21st November 2024)

5 Day FDP on NLP to LLM organised by College of Engg Kidangoor (9 - 13th December 2024)

FDP on Generative AI and Prompt Engineering organised by DCS, CUSAT(9 - 24th December 2024)

AICTE Training And Learning (ATAL) Academy Faculty Development Program on Cutting-Edge Approaches to Natural Language Processing and Large Language Models at DR. J.J. MAGDUM COLLEGE OF ENGINEERING(16 - 21th December 2024)



SRUTHI S



**SNEHA
THANKACHAN**

STTP on "Introduction to Data Science and Machine Learning" by Providence College of Engineering. (9 - 14th September 2024)



DR. FEBINA IKBAL

Completed NPTEL online course on Practical Cyber Security for Cyber Security Practitioners successfully and secured a certificate with Elite+Gold+(Topper) with score of 100 percentage

Completed NPTEL online course on Cyber Security and Privacy successfully and secured a certificate with Elite +Silver

Completed NPTEL online course on NPTEL COURSE ON JOY OF COMPUTING USING PYTHON successfully and secured a certificate with Elite +Silver (11th October 2024)

Completed IEEE PMP Mentorship Program hosted by IIT Guwahati from Aug-24 to December 24



LITHIYA SARA BABU

Completed NPTEL online course on JOY OF COMPUTING USING PYTHON successfully and secured a certificate with Elite (11th October 2024)

Completed a Course "Business Analytics with Spreadsheet Modeling & AI organized by A2Z Edu-ScaleUP held from 9th to 13th December 2024



ANU JOSE

Completed NPTEL online course on JOY OF COMPUTING USING PYTHON successfully and secured a certificate with Elite +Silver(11th October 2024)

FDP on Generative AI and Prompt Engineering from 9th Dec 2024 to 24th Dec 2024 by 360DigiTMG, India in association with Additional Skill Acquisition Programme Kerala (ASAP).

ATAL Faculty Development Program on AI and Emerging Technologies for Sustainable Energy and Climate Adaptation at IIIT Kottayam from 25/11/2024 to 30/11/2024.

**Resource Person of Science
association inauguration at MGHSS
Erattupetta (19th October 2024)**



DR. ABDUL ALI

**NPTEL COURSE ON JOY OF COMPUTING USING
PYTHON (11th October 2024)**

**Resource person of STTP on Flutter and
Dart Mobile Application Development
for S5 B.Tech& MCA Students organized
by Continuing Education Cell MITS (16th
October 2024)**



BASIL BABY

**Infosys Springboard Certification on
Generative AI Landscape, Open AI GPT
Models, Introduction to Robotic Process
Automation, Computer Vision, AI First
Software Engineering, Open AI Generative
Pretrained Trasformer 3 For Developers,
Applied Generative AI Certification,
Principles of Generative AI Certification,
Prompt Engineering (November 2024)**



NIKITA PINHEIRO

**FDP on Generative AI and Prompt
Engineering from 9th Dec 2024 to 24th Dec
2024 by 360DigiTMG, India in association
with Additional Skill Acquisition Programme
Kerala (ASAP).**