

Permission Certificate

Certify that Mr./Mrs. _____

is working as _____

in _____

at _____

is permitted to attend the KTU Sponsored 5 days FDP on "Machine Learning and Artificial Intelligence" at Viswajyothi College of Engineering and Technology, Vazhakulam from 30-01-2023 to 03-02-2023.

Date _____

Signature of Head of Institution with Seal _____

Send a Scanned copy of duly signed permission certificate to arshaj@vjcet.org on or before 28-01-2023

Important Dates

Last date of Registration **25-01-2023, 12 pm**

Notification of Selection **27-01-2023**

Resource Persons

Dr. Sreekanth D (Head - Solutions and Research | IT Solutions, ICT Academy of Kerala)

Mr. Riji N Das (Head , Knowledge Office, ICT Academy of Kerala)

Mr. Ummer Shaik (Solutions Architect Data Science, Reflections Info Systems, Technopark)

Mr. John J. Padamadan (Assistant Knowledge Officer | ICT Academy of Kerala)

Ms. Maya Mohan (Knowledge officer, ICT Academy of Kerala)

Ms. Sujitha Kurup (Research Scholar at NMIMS)

Organizing Committee

President : **Dr. K K Rajan**, Principal, VJCET, Vazhakulam

Convenor : **Mr. Amel Austine** (HoD, CSE)

Course Coordinators

Mrs. Arsha J K, Assistant Professor, CSE

Mrs. Neenu Daniel, Assistant Professor, CSE

Contact Details

Mrs. Arsha J K, AP, CSE, arshaj@vjcet.org, Mob: **9567966176**

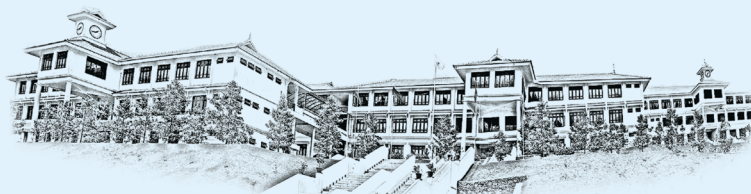
Mrs. Neenu Daniel, AP, CSE, neenu@vjcet.org, Mob: **9633333614**

Eligibility Criteria

Faculty Members from Colleges affiliated to APJ Abdul Kalam Technological University are eligible to attend the program

Registration Fee : No registration fee

Registration : Online at <https://forms.gle/VU9RQXup4aY9eM7g8>



FACULTY DEVELOPMENT PROGRAMME ON

MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE

SPONSORED BY
APJ Abdul Kalam Technological University
Trivandrum, Kerala

30-01-2023 to 03-02-2023

Organized by
Department of Computer Science & Engineering
VJCET



In association with
ICT Academy of Kerala
&
CSI Student Branch VJCET



VISWAJYOTHI
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE New Delhi & Affiliated to APJ Abdul Kalam Technological University

Vazhakulam P.O., Muvattupuzha
Ernakulam Dist., Kerala - 686 670
Tel: 0485 2262211 / 44
Email: vjcet@vjcet.org
www.vjcet.org

About the College

VJCET was established in the year 2001 by the Technical Educational Trust of the Catholic Diocese of Kothamangalam with the approval of AICTE and is affiliated to APJ Abdul Kalam Technological University. The college offers 8 B.Tech(AD, CE, CSE, CG, EC, EEE, IT & ME), 3 M.Tech, MBA & BHMCT programs. The college has excellent infrastructure facilities with fully equipped laboratories, hostels, transportation facilities etc. The academic performance of VJCET has been consistently outstanding and produced a number of rank holders. The placement records of VJCET students have been excellent. Within 22 years after its inception, the college has grown as a front runner among the new generation Engineering Colleges of Kerala and is the preferred destination for technical education. The College is accredited with A Grade by NAAC and the B.Tech programmes are accredited by NBA

Institute Vision

Moulding professionals par excellence with integrity, fairness and human values

Institute Mission

- We commit to develop the institution into a Center of Excellence of International Standards.
- We guide and mould our students in the attainment of intellectual and professional competence for successfully coping with the rapid and challenging advancements in technologies and the ever changing world of business, industry and services.
- We help and support our students in their personal growth shaping them into mature and responsible individuals.
- We strive to cultivate a sense of social and civic responsibility in our students, empowering them to serve the humanity.

- We promise to ensure a free environment where quest for the truth is encouraged.

Department of Computer Science & Engineering

The department of Computer Science and Engineering offers B.Tech degree programme in Computer Science & Engineering with an intake of 120 students, B.Tech Degree programme in Computer & Design with an intake of 60 students and M.Tech programme with an intake of 18 students. The department provides the students an environment that stimulates their intellectual growth and personality development. Infrastructure facilities are excellent with well-equipped computer labs, classrooms and libraries. A team of competent and dedicated faculty is a major asset of the department.

Department Vision

Moulding socially responsible and professionally competent Computer Engineers to adapt to the dynamic technological landscape.

Department Mission

- Foster the principles and practices of computer science to empower life-long learning and build careers in software and hardware development.
- Impart value education to elevate students to be successful, ethical and effective problem-solvers to serve the needs of the industry, government, society and the scientific community.
- Promote industry interaction to pursue new technologies in Computer Science and provide excellent infrastructure to engage faculty and students in scholarly research activities.

About the program

Objective: The main objective of the course is to provide basic knowledge of Machine learning, Artificial Intelligence, Computer

Vision along with the base concept of Clustering, Regression Analysis and Classification.

Topics to be covered

- Trends and Opportunities in Machine Learning & Artificial Intelligence
- Python for Machine Learning
- Tools, Platforms and Frameworks for ML/AI
- Introduction to Machine Learning Life Cycle
- Data Pre-processing Techniques
- Introduction to Supervised Learning Techniques
- Introduction to Regression
- Linear Regression
- Introduction to Classification
- Logistic Regression
- kNN, SVM, Decision Trees
- Case Studies on Regression & Classification
- Introduction to Unsupervised Learning Techniques
- Clustering: kMeans, Agglomerative Clustering
- Case Study on Clustering
- Introduction to Dimensionality Reduction
- Case Study on Dimensionality Reduction
- Artificial Neural Network
- Case Study on Neural Network
- Introduction to Computer Vision
- Case Study on Computer Vision
- Introduction to Natural Language Processing
- Case Study on NLP