JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM

www.jntugv.edu.in

CERTIFICATION COURSE IN EMERGING TECHNOLOGIES

A Comprehensicve program covering the most in-demand technologies of the future. from AI to Quanttum Computing.

3 Months Duration Intensive and focused Learning	**Capstone Project** Intensive and focused Learning	**120+ Sessions** 10 session per week

What Will You Learn.

- AI & Tools
- Machine Learning & DL
- IOT
- Cyber Security
- Quantum Computing

Eligibility
Open to all Diloma/Degree (B.Tech/B.A/B.Sc etc) any Disciline

Course Fee
~~₹ 38,000~~
₹ 24,999

Mode
Hybrid(Online Lectures + On-campus Labs)

Ready to Shape the Future?

Limited seats available Register now to secure you spot.

Register Now

Scan and Register

+91 7780351078
skilldevelop@jntugv.edu.in
JNTU-GV Campus

Your 3-Months Learning Journey

Weeks 1 | 4 Sessions

Artificial Intelligence & Tools

Introduction to AI & Historical Evolution Intelligent Applications Today Ethics in AI

Weeks 2-3 | 20 Sessions

Machine Learning & Deep Learning

Types of Learning, Classification and Clustering Algorithms
Neural Networks, CNNs, RNNs, LSTM

Tools: TensorFlow, Keras, PyTorch, Scikit-learn
Labs: Image classification, Sentiment analysis

Weeks 3-4 | 16 Sessions

Artificial Intelligence Tools

Intelligent Systems & Search Techniques
Natural Language Processing (NLP): Text Classification, Chatbots

Tools: OpenAI, IBM Watson, Google AI, Microsoft Azure AI
Labs: Chatbot development, NLP tasks

Weeks 5-6 | 20 Sessions

Internet of Things (IoT)

IoT Architecture and Protocol Stack
Sensors, Actuators, and Communication Protocols
IoT Platforms: Arduino, Raspberry Pi
Applications: Smart Home, Healthcare, Agriculture

Labs: Smart irrigation system, MQTT cloud communication

Weeks 7-8 | 20 Sessions

Cybersecurity

Cybersecurity Principles and Threat Landscape
Cryptography: Hashing, Encryption
Network Security: Firewalls, VPNs
Security Tools: Wireshark, Metasploit, Burp Suite

Labs: Packet sniffing, Secure login, SQLi demonstration

Weeks 9-10 | 20 Sessions

Quantum Computing

Classical vs Quantum Computing, Qubits, Superposition
Quantum Gates and Circuits
Quantum Algorithms: Grover's, Shor's
Quantum Programming with Qiskit, IBM Q

Labs: Quantum circuit simulation, IBMQ backend execution