

Certificate Programme offered during the 2023-2024

BROCHURE

PROGRAM OBJECTIVES

1. Learn the foundational principles of automotive design, including proportions, aerodynamics, and ergonomics.
2. Explore rendering tools like KeyShot and visualization techniques in virtual and augmented reality.

PROGRAM SCHEDULE:

Day 1: (20.11.2023) Introduction to Automotive Design

Day 2: (21.11.2023) Sketching Fundamentals

Day 3: (22.11.2023) Concept Development

Day 4: (23.11.2023) Basics of 3D Modeling

Day 5: (24.11.2023) Advanced Surface Modeling

Day 6: (25.11.2023) Design Communication

ABOUT THE PROGRAM

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The Certificate Program aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
T.N.PALAYAM, GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM

IN

**“AUTOMOTIVE DIGITAL
DESIGN”**

20th to 25th Nov 2023

Organized by

**DEPARTMENT OF AUTOMOBILE
ENGINEERING**

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner. J.K.K. Munirajah group of institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

ABOUT THE DEPARTMENT

The department of automobile engineering was established in 2013 to train the students in the area of automobile engineering, the automobile in the various cities in the hub of India, with Ford, Hyundai, BMW, Mahindra and others, this course gains significance for those who are passionate about automobiles.

To give students a broad exposure in the design, development and testing of automobiles. Furthermore, the program trains them to meet the technological challenges and diverse needs of the industry and society in various areas of automobile engineering and equips them to excel in a truly competitive industry.

RESOURCE PERSON

Mr. V.P. ARUL MURUGAN

ASSISTANT PROFESSOR/AUTO

JKKMCT

PATRON

Dr. K. Sridharan, M.E., M.B.A., Ph.D., MISTE

CONVENOR

Mr. V. MAGESH, M.E

HOD - AUTO

COURSE-COORDINATOR

Mr. S. Ganesh Kumar, M.E.,

AP/ AUTO

PROGRAM CONTENTS

1. Introduction to Automotive Design
2. Sketching and Concept Development
3. Digital Modeling Fundamentals
4. Automotive Design Communication
5. Industry Applications and Trends


- PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 500,
GOBI (Tk), ERODE (Dt).

PROGRAM OBJECTIVES

- Building and testing virtual prototypes
- Simulating prototypes visually and mathematically
- Exploring design variations
- Using tools and processes like Computer Aided Design (CAD) modelling, systems modelling, and simulation and analysis

PROGRAM SCHEDULE:

- Day 1:** Understand the fundamental concepts and importance of BIM in civil engineering projects
- Day 2 :** Demonstrate knowledge of BIM principles and technologies
- Day 3 :** BIM in the Civil Engineering Lifecycle
- Day 4 :** Civil 3D for Infrastructure Projects
- Day 5 :** Document Management and Project Coordination
- Day 6 :** Level of Development (LOD) Specifications

ABOUT THE COURSE

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The certificate program on aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.

Google meet

link: <https://meet.google.com/ibv-oygv-bKY>



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
Accredited by NAAC with "A" grade

T.N.PALAYAM,
GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM

ON

"VIRTUAL PROTOTYPING WITH BIM"

07.08.2023 TO 12.08.2023

Organized by

CIVIL DEPARTMENT
J.K.K. MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner. J.K.K. Munirajah group of institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

Memorandum Of Understanding:

- HCL Technologies
- BSNL for Training and Recruitment.
- HP for Training and Recruitment.

ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has the Civil Engineering Department was started in 2011 with the primary objective to disseminate the knowledge above latest technologies in Civil Engineering to the students so that they cater the demand of builders/contractors and construction industry in and around the world. The educational objectives are designed to produce competent engineers as to the needs of the country and to contribute effectively to the advancement of civil engineering causes to accommodate the needs of the community. The department has well equipped classrooms & labs. Classes are spacious, well furnished & well-ventilated for providing a good environment for students for learning.

RESOURCE PERSON

Ms. CAYALVIZHI A P .B.arch.,
Architect

PATRON

Dr.K.Sridharan, Ph.D.

PRINCIPAL

CONVENOR

Mrs. MOHANAPRIYA V ME.,
HOD – CIVIL

COORDINATOR

Mrs. REENA P (ME),
AP/ CIVIL

PROGRAM CONTENTS

CHAPTER I

- Understand the fundamental concepts and importance of BIM in civil engineering projects.
- Develop proficiency in BIM tools for design, analysis, and project coordination.

CHAPTER II

- Create and manage 3D models using BIM software.

CHAPTER III

- Overview of Industry-Standard BIM Software (Autodesk Revit, Navisworks, Civil 3D)
- Hands-on Training in Revit: Basic Modeling Techniques

CHAPTER IV

- BIM Applications in Roadways, Bridges, and Drainage Design

CHAPTER V

- Real-world BIM Case Studies
- Group Capstone Project: Develop a BIM Model for a Civil Engineering

JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY

T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt)

PROGRAM OBJECTIVES

- Learn Advanced Visualization: Create interactive and complex dashboards using Power BI's advanced features.
- Improve Data Modelling: Build strong data models with advanced DAX functions and optimized data relationships.
- Automate Reporting: Streamline reporting processes and easily share interactive dashboards within your organization.

PROGRAM SCHEDULE:

Day 1(21.08.2023): Power BI: Data Transformation, Advanced Modeling, and Time Intelligence

Day 2(22.08.2023): Advanced Visualizations and Interactivity

Day 3(23.08.2023): Advanced DAX Calculations

Day 4(24.08.2023): Power BI Service and Sharing Dashboards

Day 5(25.08.2023): Performance Optimization Technique

Day 6(26.08.2023): Final Project and Wrap-Up

ABOUT THE PROGRAM

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The Certificate Program aims to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
T.N.PALAYAM,
GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM IN

“DATA VISUALIZATION WITH POWER

**BI: ADVANCED DASHBOARD
TECHNIQUES”**

21.08.2023 to 26.08.2023

Organized by

DEPARTMENT OF CSE

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K.Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner. J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has The Computer Science Engineering Department was started in 2008 with the primary objective to disseminate the knowledge about latest technologies in computer technology to the students. Computer technology has become an integral part of our daily life. It is the most important element in the education of students at the present and the future era. Computer Technology has revolutionized society to a great extent. Technological advancements are so rapid in this field that continual learning is essential to keep the skill set of students up to date. Also, the department strives hard in improving the communication skills, technical and analytical skills of our students through various programs, so that they could compete in the global front. We focus on bridging the gap between campus education and industry needs through internships, guest lectures and workshops.

RESOURCE PERSON

Mr.S.THIRUNAVUKKARASU

PATRON

Dr.K.SRIDHARAN Ph.D,

CONVENOR

Dr.N.SATHYABALAJI

HOD -CSE

COURSE-COORDINATORS

1.Mr.E.ANANTH

AP/CSE

2. Mr.P.SASIREKA

AP/CSE

COURSE CONTENTS

- Advanced Data Modeling: Learn to create complex data models, use advanced DAX functions, and optimize data relationships for better performance.
- Interactive Dashboards: Design and build dynamic, interactive dashboards with custom visuals, slicers, and drill-through features.
- Automation and Sharing: Automate report generation, set up data refresh schedules, and share dashboards securely with stakeholders via Power BI Service.

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

PROGRAM OBJECTIVES

- Learn Kotlin for Android Development: Gain a solid understanding of Kotlin programming and its application in building Android apps.
- Build and Deploy Android Apps: Develop practical skills in creating, testing, and deploying Android applications using Kotlin and Android Studio.
- Master Advanced Android Techniques: Implement advanced features such as networking, databases, and custom UI components in Android applications.

PROGRAM SCHEDULE:

Day 1(05.02.2024): Introduction to Android App Development & Kotlin Basics

Day 2(06.02.2024): Android UI Fundamentals & Layouts

Day 3(07.02.2024): Activities, Intents, and Data Persistence

Day 4(08.02.2024): Advanced UI Components & Working with APIs

Day 5(09.02.2024): Background Tasks & Notifications

Day 6(10.02.2024): Publishing App & Final

ABOUT THE PROGRAM

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The Certificate Program aims to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.

Principal
J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk),
Erode (Dt) - 638 506



J.K.K. MUNIRAJAH

COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
T.N.PALAYAM,
GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM

IN

“CUTTING EDGE MOBILE

APPLICATIONS DEVELOPMENT USING

KOTLIN”

05.02.2024 to 10.02.2024

Organized by

DEPARTMENT OF CSE

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K.Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner J.K.K. Munirajah group of Institutions was founded by J.K.K .Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of- the- art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has The Computer Science Engineering Department was started in 2008 with the primary objective to disseminate the knowledge above latest technologies in computer technology to the students, Computer technology has become an integral part of our daily life. It is the most important element in the education of students at the present and the future era. Computer Technology has revolutionized society to a great extent. Technological advancements are so rapid in this field that continual learning is essential to keep the skill set of students up to date. Also, the department strives hard in improving the communication skills, technical and analytical skills of our students through various programs, so that they could compete in the global front. We focus on bridging the gap between campus education and industry needs through internships, guest lectures and workshops.

RESOURCE PERSON

S. DHARANITHARAN

PATRON

Dr.K.SRIDHARAN Ph.D,

CONVENOR

Dr.N.SATHYABALAJI

HOD -CSE

COURSE-COORDINATORS

1.Mrs.M.C. SAVITHRI

AP/CSE

2. Mr.P.POORNAPRIYA

AP/CSE

COURSE CONTENTS

- **Kotlin Basics:** Learn Kotlin syntax, functions, classes, and data structures for building Android applications.
- **Android Fundamentals:** Understand Android components, layouts, views, and activities to build simple UIs.
- **Data Handling:** Learn data storage options like Shared Preferences, SQLite, and fetching data from APIs using Retrofit



Principal

**J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk),
Erode (Dt) - 638 506**

PROGRAM OBJECTIVES

Gain knowledge of advanced machine learning techniques tailored for Industry 5.0 applications.

Obtain a consolidated understanding of the integration of ML with smart manufacturing systems and human-centric processes.

Develop skills to implement machine learning models in real-time industrial scenarios with a focus on predictive analytics and decision support.

Acquire expertise in deploying AI-driven solutions for process optimization, quality control, and resource efficiency.

Enhance understanding of ethical AI practices and human-machine collaboration in Industry 5.0 ecosystems.

PROGRAM SCHEDULE

(20.11.2023) Introduction to Industry 5.0 and Machine Learning

(21.11.2023) Fundamentals of Machine Learning for Industrial Applications

(22.11.2023) Role of ML in Smart Manufacturing and Predictive Maintenance

(23.11.2023) Advanced Data Analytics and ML for Process Optimization

(24.11.2023) Machine Learning for Supply Chain and Logistics in Industry 5.0

(25.11.2023) Emerging Trends in ML for Human-Centric Industry 5.0 Systems

ABOUT THE PROGRAM

“The Machine Learning Applications in Industry 5.0” program is designed to equip participants with the knowledge and skills to harness the power of machine learning in the era of Industry 5.0. This program emphasizes the integration of human-centric approaches and advanced technologies, enabling smart, adaptive, and sustainable manufacturing systems. Participants will gain hands-on experience with state-of-the-art machine learning techniques tailored for predictive maintenance, intelligent process control, digital twins, and collaborative human-machine environments.

The program also addresses the role of machine learning in driving sustainability by optimizing energy efficiency, reducing waste, and fostering innovative solutions for a greener future. By the end of the course, participants will be prepared to design, deploy, and maintain machine learning systems that align with the principles of Industry 5.0, transforming the way industries operate and innovate.


PRINCIPAL
J.K.K. MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt),



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

(Approved by AICTE and Affiliated to Anna University)
T.N.PALAYAM, GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM

on

“Machine Learning Applications in Industry 5.0”

20th to 25th NOV 2023

Organized by

**DEPARTMENT OF MECHANICAL
ENGINEERING**

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K.Sampoorani Charitable Trust, primarily with the objective of providing world class quality in Education and Training in a structured and systematic manner J.K.K. Munirajah College of Institutions was founded by J.K.K.Munirajah, who is a reputed industrialist, technocrat, an educationalist, an excellence, an avid social worker, a person imbued in traditional spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has a area of 250 acres of land richly endowed with beautiful greenland. The college with its state-of- the- art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

ABOUT THE DEPARTMENT

Mechanical Engineering Department was started in the year 2010. The department offers four years B. E -Mechanical Engineering. The department has a team of highly qualified, dedicated and motivated faculty and well equipped laboratories and facilities for UG and PG Degrees has been Approved by Anna University, Chennai, New Delhi and Affiliated to Anna University, Chennai.

The department of Mechanical Engineering is committed to excellence in academics by providing students ample opportunities for knowledge acquisition and application in keeping them to changing global needs.

RESOURCE PERSON

Mr.M.SIVAKUMAR, M.E
ASSISTANT PROFESSOR/MECH
JKKMCT

PATRON

Dr.K.SRIDHARAN, ME ,Ph.D.,
PRINCIPAL
JKKMCT


CONVENOR

Mr.K.SRIRAM, M.E
HOD - MECH

COURSE-COORDINATORS

1. Dr.N.SANKAR,*M.E.,Ph.D*
AP/ MECH

2.Mr.E.DEEPARAJ,*M.E.*
E..AP/ MECH


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

PROGRAM CONTENTS

1. Demonstrate knowledge of Industry 5.0 principles and integration of machine learning for system-level optimization and human-centric design.
2. Exhibit a comprehensive understanding of predictive maintenance, digital twins, and intelligent process control using machine learning techniques.
3. Apply machine learning to automate and enhance decision-making processes in collaborative human-machine environments.
4. Analyze and assess the role of machine learning in sustainable manufacturing, energy efficiency, and waste reduction strategies.
5. Evaluate the lifecycle of machine learning systems in Industry 5.0, from data acquisition to deployment and continuous improvement.

COURSE OBJECTIVES

1. To provide students an understanding of the expectations of the industry.
2. To improve employability skills of engineering students.
3. To bridge the skill gaps and makes the students.
4. To provide an opportunity to students to develop the Interdisciplinary skills.

COURSE SCHEDULE:

Day 1:(21/08/2023) Introduction about Energy Audit and Testing commissioning

Day 2:(22/08/2023) Study of Energy Audit Fundamentals

Day 3:(23/08/2023) HVAC Systems

Day 4:(24/08/2023) Testing and Commissioning

Day 5:(25/08/2023) Energy Management Software

Day 6:(26/08/2023) Practical Sessions and Case Studies

ABOUT THE COURSE

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The add on courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY (AUTONOMOUS)

Approved by AICTE and Affiliated to Anna University
T.N.PALAYAM,
GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM ON

"ENERGY AUDIT & TESTING COMMISIONING"

21.08.2023 TO 26.08.2023

Organized by

EEE Department
PRINCIPAL

**JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506
GOBI (TK), ERODE (Dt).**



ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner. J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

Memorandum Of Understanding:

- HCL Technologies
- BSNL for Training and Recruitment.
- HP for Training and Recruitment.

ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has introduced the 4 year courses are B.E (Electrical and Electronics Engineering) in the year of 2008. The course was approved by AICTE, New Delhi and affiliated by ANNA University at Chennai. The Electrical and Electronics Engineering strives towards updating the syllabus. So that the students are always equipped with advanced technology to meet Industrial standard. Hi tech Laboratories also render the necessary expertise. To develop the department as a center of excellence to take care of the local and regional need related to Electrical Engineering activity and to encourage students and faculty to undertake research programme & projects of multi-disciplinary characters.

RESOURCE PERSON

Mr. T.S. THAMBIRAN, M.E.,

AP/EEE

PATRON

Dr. K. SRIDHARAN, Ph.D

CONVENOR

Dr. C. SARAVANAN, M.E. Ph.D.,
HOD - EEE

COURSE-COORDINATORS

1. Mr. S.M. PRANESH, M.E
AP/EEE

2. Mr. A. VIGNESHKUMAR, M.E
AP/EEE

Course Contents:

- Introduction of Energy Management Coil
- Energy Audit Fundamentals
- Electrical Systems
- HVAC Systems
- Industrial Processes
- Testing and Commissioning
- Energy Management Software
- Practical Sessions and Case Studies



PROGRAM OBJECTIVES

- To provide students an understanding of the expectations of the industry.
- To improve employability skills of engineering students.
- To bridge the skill gaps and makes the students.
- To provide an opportunity to students to develop the interdisciplinary skills.

PROGRAM SCHEDULE:

Day 1: Introduction to PCB designing concepts

Day 2: Components, devices and their packages.

Day 3: Schematic to PCB Conversion and
Designing Flow Chart

Day 4: Design and Development tools.

Day 5: Printing process and quality control.

Day 6: PCB Designing Practice

ABOUT THE COURSE

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The certificate program on aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.


Principal

**J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk),
Erode (Dt) - 638 506**



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
Accredited by NAAC with "A" grade

**T.N.PALAYAM,
GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506**

CERTIFICATE PROGRAM

ON

"PCB DESIGNING AND FABRICATION"

11.12.2023 TO 16.12.2023

Organized by

Department of Electronics and
Communication Engineering

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

Memorandum Of Understanding:

- HCL Technologies
- BSNL for Training and Recruitment.
- HP for Training and Recruitment.

ABOUT THE DEPARTMENT

The Electronics and Communication engineering department occupies a prominent place in the annals of its academic history. The specialization of faculty includes telecommunication system engineering power electronics, computer networks, control system, vlsi, bio-medical engineering, digital signal processing, microwave, rf, multimedia ,fiber optical communication, computer hardware and maintenance centers with latest software's The Department offers four year UG programmes in ECE and two year PG programmes in Applied Electronics.

RESOURCE PERSON

Mrs.M.SIVARANJANI.,M.E.,

AP/ ECE

PATRON

Dr.K.SRIDHARAN., Ph.D.,

CONVENOR

Dr.C.MURUGESAN., Ph.D,

HOD – ECE

COORDINATOR

Mrs.R.KOKILA., M.E.,

AP/ ECE

PROGRAM CONTENTS

- Introduction to PCB Technology
- PCB Materials
- PCB Types
- Description of PCB Layers
- Rules for Track and Application Circuits
- Study of IPC Standards, Component Package Types
- Schematic to PCB Conversion
- PCB Designing Flow Chart
- Introduction to Development Tools
- SPICE and PSPICE Environment
- PCB Layout Designing
- Printing Process
- Screen printing process
- Quality control
- Troubleshooting PCB
- Making the schematic of Academic and Industrial projects
- PCB Designing of projects
- Hands on training

Principal

**J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk),
Erode (Dt) - 638 506**

PROGRAM OBJECTIVES

- **Build Scalable Microservices:** Use Docker and Kubernetes to create microservices that can easily scale and stay reliable.
- **Speed Up Application Delivery:** Automate the deployment and management of microservices to release applications faster and more reliably.
- **Manage Resources Efficiently:** Use Kubernetes to optimize resource use and ensure good performance while controlling costs.

PROGRAM SCHEDULE:

Day 1(28.08.2023): Cloud-Native Development with Docker and Containers

Day 2(29.08.2023): Docker Images, Docker file, Networking, and Data Management

Day 3(30.08.2023): Introduction to Kubernetes, Core Concepts, Pods, and Deployments

Day 4(31.08.2023): Kubernetes Services, Networking, and Configuration Management

Day 5(01.09.2023): Scaling Applications and Monitoring & Logging in Kubernetes

Day 6(02.09.2023): CI/CD with Kubernetes and Advanced Kubernetes & Docker Practices

ABOUT THE PROGRAM

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The Certificate Program aims to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.



PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506
GOBI (Tk), ERODE (Dt).



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
T.N.PALAYAM,
GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM

IN

**“CLOUD NATIVE DEVELOPMENT:
BUILDING MICROSERVICES WITH
KUBERNETES AND DOCKER”**

28.08.2023 to 02.09.2023

Organized by

DEPARTMENT OF IT

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K.Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner. J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has The Computer Science Engineering Department was started in 2008 with the primary objective to disseminate the knowledge above latest technologies in computer technology to the students. Computer technology has become an integral part of our daily life. It is the most important element in the education of students at the present and the future era. Computer Technology has revolutionized society to a great extent. Technological advancements are so rapid in this field that continual learning is essential to keep the skill set of students up to date. Also, the department strives hard in improving the communication skills, technical and analytical skills of our students through various programs, so that they could compete in the global front. We focus on bridging the gap between campus education and industry needs through internships, guest lectures and workshops.

RESOURCE PERSON

Mr.L.THANARATHANAM

PATRON

Dr.K.SRIDHARAN Ph.D,

CONVENOR

Dr.N.SATHYABALAJI

HOD -IT

COURSE-COORDINATORS

1.Mr.K. VIKNESHWARA


AP/IT

2. Mr.R.PRADEEPAN

AP/IT

COURSE CONTENTS

- Docker and Kubernetes are key technologies in cloud-native development, enabling the creation, deployment, and management of scalable microservices.
- Microservices architecture allows for building modular, independent, and easily deployable applications that can be managed using containers and orchestrated with Kubernetes.
- CI/CD pipelines streamline the process of building, testing, and deploying applications, enhancing the speed and reliability of software releases in a cloud-native environment.


PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506
GOBI (Tk), ERODE (Dt).

PROGRAM OBJECTIVES

- Learn Ethical Hacking Principles: Understand the concepts and legal aspects of ethical hacking, penetration testing, and cybersecurity.
- Master Penetration Testing Techniques: Gain practical skills in identifying vulnerabilities, exploiting them, and securing systems.
- Understand Security Tools and Frameworks: Learn how to use various ethical hacking tools and frameworks for testing and securing systems.

PROGRAM SCHEDULE:

Day 1(13.02.2024): Introduction to Ethical Hacking & Penetration Testing

Day 2(14.02.2024): Reconnaissance and Foot printing

Day 3(15.02.2024): Vulnerability Analysis and Exploitation

Day 4(16.02.2024): Post-Exploit Post-Exploitation and Privilege Escalation

Day 5(17.02.2024): Wireless Network Penetration Testing

Day 6(18.02.2024): Reporting and Legal Aspects of Penetration Testing

ABOUT THE PROGRAM

Learn and live

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young. The greatest thing in life is to keep your mind young".

The Certificate Program aims to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students.

Principal

J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk),
Erode (Dt) - 638 506



J.K.K. MUNIRAJAH

COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
T.N.PALAYAM,
GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM
IN

**“ETHICAL HACKING AND
PENETRATION TESTING”**

13.02.2024 to 18.02.2024

Organized by

DEPARTMENT OF IT

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K.Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner J.K.K. Munirajah group of Institutions was founded by J.K.K .Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of- the- art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has The Computer Science Engineering Department was started in 2008 with the primary objective to disseminate the knowledge above latest technologies in computer technology to the students, Computer technology has become an integral part of our daily life. It is the most important element in the education of students at the present and the future era. Computer Technology has revolutionized society to a great extent. Technological advancements are so rapid in this field that continual learning is essential to keep the skill set of students up to date. Also, the department strives hard in improving the communication skills, technical and analytical skills of our students through various programs, so that they could compete in the global front. We focus on bridging the gap between campus education and industry needs through internships, guest lectures and workshops.

RESOURCE PERSON

Mrs.S.KANIMOZHI

PATRON

Dr.K.SRIDHARAN Ph.D,

CONVENOR

Dr.N.SATHYABALAJI

HOD -IT

COURSE-COORDINATORS

1. Mrs.D.NIVETHINI

AP/IT

2. Mrs.S.THARANI

AP/IT

COURSE CONTENTS

- Introduction to Ethical Hacking: Overview of ethical hacking, penetration testing, and security testing methodologies.
- Networking and Protocols: Learn about networking concepts, protocols, and how they relate to security testing.
- Legal and Ethical Considerations: Understand the legal boundaries and ethical standards in penetration testing and hacking.


Principal
J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk),
Erode (Dt) - 638 506

ABOUT THE COLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 Governed by Annai J.K.K. Sampoorani Ammal Charitable Trust, primarily with the objective of delivering world class quality in Education and Training in a structured and systematic manner. J.K.K. Munirajah group of Institutions was founded by J.K.K. Munirajah, who is a reputed industrialist, technocrat, an educationalist par excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of India and abroad in the field of Education. The Institution has an area of 250 acres of land richly endowed with beautiful Greenland. The college with its state-of-the-art infrastructural facilities and excellent academic records has earned recognition as one of the reputed educational institutions for men and women in India.

Memorandum Of Understanding:

- HCL Technologies
- BSNL for Training and Recruitment.
- HP for Training and Recruitment.

ABOUT THE DEPARTMENT

The J.K.K. Munirajah college of Technology has the Master of Computer Applications Department was started in 2011 with the primary objective to disseminate the knowledge about latest technologies in Software to the students so that they cater the demand of Technological needs in and around the world. The educational objectives are designed to produce competent engineers as to the needs of the country and to contribute effectively to the advancement of Master of Computer Applications courses to accommodate the needs of the community. The department has well equipped classrooms & labs. Classes are spacious, well furnished & well ventilated for providing a good environment for students for learning.

RESOURCE PERSON

Mr.M. ARAVIND B.Tech(IT)

PATRON

Dr.K.SRIDHARAN ,Ph.D

CONVENOR

Mr.M. SENTHILKUMAR, MCA
AP/ MCA

COORDINATOR

Mr.I. MANIKANDAN
AP/ MCA

PROGRAM CONTENTS

- Generative AI Models
- Advanced Prompt Engineering Techniques
- Generative AI for Business and Creativity
- AI, Bias, and Control Mechanisms
- Scaling, Optimization, and Deploying Generative AI Models
- Future Of Generative Ai and Real-World Applications

Principal

**J.K.K. Munirajah College of Technology
(Autonomous)
T.N. Palayam, Gobi (Tk),
Erode (Dt) - 638 506**

PROGRAM OBJECTIVES

1. To provide students an understanding of the expectations of the industry.
2. To improve employability skills of engineering students.
3. To bridge the skill gaps and makes the students.
4. To provide an opportunity to students to develop the Interdisciplinary skills.

PROGRAM SCHEDULE:

Day 1(02.10.2023): Generative AI Models

Day 2(03.10.2023): Advanced Prompt
Engineering Techniques

Day 3(04.10.2023): Generative AI for Business
and Creativity

Day 4(05.10.2023): AI, Bias, and Control
Mechanism

Day 5(06.10.2023): Scaling and Optimizing
Generative Models

Day 6(07.10.2023): Future of Generative AI and
Real-world applications

ABOUT THE PROGRAM

Learn and live

"Anyone who stops learning is old,
whether at twenty or eighty. Anyone
who keeps learning stays young.

The greatest thing in life is to keep
your mind young".

The Certificate Program aims to
provide additional learner centric
graded skill oriented technical training,
with the primary objective of improving
the employability skills of engineering
students.

Principal
J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk)
Erode (Dt) - 638 50



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
T.N. PALAYAM, GOBI (TK),
ERODE (DT), TAMILNADU PIN: 638 506

CERTIFICATE PROGRAM

IN

“Generative AI and Prompt Engineering”

2nd to 7th OCT 2023

Organized by

MCA Department

PROGRAM OBJECTIVES

1. To explore and investigate business problems or opportunities through a course of scientific inquiry.

2. Business statistics empower professionals to accurately assess their data, identify meaningful patterns, and make decisions that direct their companies toward growth and sustainability

PROGRAM SCHEDULE:

Day 1 :(16.02.2023) Descriptive and Inferential Statistics

Day2 :(17.02.2023) Data Collection and Cleaning

Day 3 :(18.02.2023) Predictive Modeling and Machine Learning

Day4:(19.02.2023)Data VisualizationandCommunication

Day 5 :(20.02.2023) Fundamentals of Business Statistics

Day 6 :(21.02.2023) Customer Segmentation

ABOUT THE PROGRAM

Learn data science

“Data science in business statistics and analytics courses teaches how to use data science tools and techniques to analyze and interpret data, and make business decisions”.

The Certificate Program aim to provide additional Data science is a multidisciplinary field that combines principles and practices from statistics, mathematics, artificial intelligence, and computer engineering.

Principal
J.K.K. Munirajah College of Technology
(Autonomous)
T.N. Palayam, Gobi (Tk),
Erode (Dt) - 638 506



J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE and Affiliated to Anna University
T.N.PALAYAM, GOBI (TK),
ERODE (DT), TAMILNADU
PIN: 638 506

CERTIFICATE PROGRAM IN

“DATA SCIENCE IN BUSINESS STATISTICS & ANALYTICS”

16th to 21th FEB 2023

Organized by

**DEPARTMENT OF
MANAGEMENT STUDIES**

ABOUTTHECOLLEGE

J.K.K. Munirajah college of Technology was established in the year 2008 GovernedbyAnnaiJ.K.K.Sampoorani Ammal Charitable Trust, primarily with the objective of deliveringworldclass qualityin Education andTraininginastructuredandsystematicmanner.J.K.K.Munirajah groupofInstitutionswasfoundedbyJ.K.K.Munirajah, who is a reputed industrialist, technocrat, an educationalistpar excellence, an avid social worker, a person imbued in deep spiritual values and a philanthropist. The management has completed 25 years of dedicated service to the people of Indiaandabroad in thefield of Education.TheInstitution has an area of 250 acres of land richly endowed with beautiful Greenland.Thecollegewithitsstate-of-the-artinfrastructural facilitiesandexcellentsacademicrecordshasearnedrecognition as one of the reputed educational institutions for men and women in India.

ABOUTTHEDEPARTMENT

The Department of Master of Business Administration (MBA) was introduced at 2009 well formed with the primary objective of providing world class education in the field of management. The MBA programme, leading to the award of Post Graduate Degree in Management by the Anna University, Chennai through. It has been carefully designed to balance the theoretical knowledge with practical skills, providing managers with problem solving frameworks applicable to their work and beneficial to the development of their professional skills.

RESOURCEPERSON

Mr.R.PRASANTH
ASSISTANTPROFESSOR/MBA
JKKMCT

PATRON

Dr.K.SRIDHARAN, ME, Ph.D., MISTE
PRINCIPAL
JKKMCT

CONVENOR

Mr.E.R.VADIVEL
HOD - MBA

COURSE-COORDINATORS

1. Mr.R.PRASANTH.,
AP/MBA
2. Mr.B.SIVAKUMAR
AP/MBA

PROGRAMCONTENTS

1. Study hypothesis testing and confidence intervals for decision-making
2. Master preprocessing techniques: handling missing data, outliers, and data transformations
3. Focus on creating impactful dashboards and visual stories that drive decision-making
4. Learn to use visualization tools such as Tableau
5. Understand ROI measurement for data science



Principal

**J.K.K.Munirajah College of Technology
(Autonomous)
T.N.Palayam, Gobi (Tk),
Erode (Dt) - 638 506**