







OFFICE OF CONSULTATION & TRAINING
College of Engineering and Petroleum

Kuwait University- College of Engineering & Petroleum - Computer Engineering – OCT

COE001- AI for productivity



Contact

-  98765392
-  24983523
-  24983524
-  tpd.occd@eng.ku.edu.kw

Training course duration:

Three Days

Timing:

8 a.m. - 2 p.m. Daily

Course objectives

In today's rapidly evolving workplace, harnessing the power of artificial intelligence (AI) is no longer a choice but a necessity for individuals and organizations aiming to enhance productivity, efficiency, and innovation. The "AI for Productivity" professional course is designed to equip participants with the knowledge and skills needed to leverage AI technologies for significant improvements in the modern work environment.

In this course we will learn about the various AI tools and applications that are transforming the workplace. Explore AI-powered solutions for data analysis, automation, decision support, and customer interaction. This course will have practical hands-on projects where we apply what you've learned through hands-on projects and case studies. We will gain practical experience in implementing AI solutions to real-world work scenarios.

Course outline :

Day one topics:

AI Tools and Applications and Ethical Responsibility

Day two topics:

Implementing Automation, Data Analysis, and Decision making

Day three topics:

Using Natural Language Processing to enhance productivity



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COE001- AI for productivity



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KUWAIT UNIVERSITY

Fees:

250 KD

Instructor:

Prof. Ayed A. Salman
computer Engineering
College of Engineering & petroleum
Kuwait University



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COE002- Data Science for Programmers



Contact

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Training course duration:

Three Days

Timing:

8 a.m. - 2 p.m. Daily

Course objectives

This course takes an applied approach to the process of Data Science: starting from data wrangling where data is acquired, aggregated, cleaned, and presented to modeling. It reaches out then to data exploration and modeling: building patterns and models using machine learning algorithms: Deep Learning, decision trees, random forest, linear regression, PCA, SVM, reinforcement learning, etc. The course will introduce the field of data visualization to enhance communicating the conclusion.

Course outline :

Day one topics:

Python Programming

Day two topics:

Panda and NumPy

Day three topics:

Data Manipulation and visualization

Day four topics:

Machine Learning - Part 1



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COE002- Data Science for Programmers



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Day five topics:

Machine Learning - Part 2

Fees:

250 KD

Instructor:

Prof. Ayed A. Salman
computer Engineering
College of Engineering & petroleum
Kuwait University



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COE003- Data Science & AI



Contact

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Course objectives

This course will introduce attendees to Data Science and AI. The course will take practical approach to Data science and machine Learning. The course will have exercises in Python and Machine Libraries like Panda, Keras, TensorFlow.

Training course duration:

Five Days

Timing:

8 a.m. - 2 p.m. Daily

Course outline :

Day one topics:

Python Programming

Day two topics:

Data Engineering Process

Day three topics:

Data Visualization



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COE003- Data Science & AI



Day Four topics:

Data Modeling - Supervised Learning

Day Five topics:

Data Modeling - Unsupervised Learning

Fees:

250 KD

Instructor:

Prof. Ayed Salman
Computer Engineering
College of Engineering & petroleum
Kuwait University







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COE004-Expert in Deep Learning



Contact

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Course objectives

This training program aims at preparing trainees to be familiar with pathways of Deep Learning in different domains

Training course duration:

Five Days

Timing:

8 a.m. - 2 p.m. Daily

Course outline :

Day one topics:

Module 1: Fundamentals of Machine learning and Artificial Intelligence
Module 2: Introduction to Neural Networks and Deep Learning

Day two topics:

Module 3: Get deep into Deep Learning
Module 4: Formulate Machine Learning Projects

Day three topics:

Module 5: Introduction to Convolutional Neural Networks
Module 6: Introduction to Recurrent Neural Networks



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COE004-Expert in Deep Learning



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Day four topics:

Module 7: Introduction to Sequence Models

Module 8: Emerging Machine Learning Models

Day five topics:

Module 9: Practice to DL Systems

Module 10: Future Directions in DL & Applications

Fees:

250 KD

Instructor:

Prof. Fawaz Al-Anzi

Prof. Ayed Salman

Computer Engineering

College of Engineering & petroleum

Kuwait University







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COE005- Value Engineering Training Workshop



Contact

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Course objectives

This is a practical course where we apply the VE Methodology to a live project during the course.

Training course duration:

Five Days

Timing:

8 a.m. - 2 p.m. Daily

Course outline :

Day one topics:

- Introduction and History of Quality and Value
- Value and Quality concept.
- Reasons for unnecessary cost.
- Define Quality and value
- Why Value Engineering
- Information Gathering and scope defining.
- Workshop (Information phase)



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COE005- Value Engineering Training Workshop



Day two topics:

- Function Analysis
- Workshop (Function Analysis)
- FAST Diagramming
- Workshop (FAST)

Day three topics:

- Creativity, innovation and speculation.
- Team building.
- Road block to Creative & Positive thinking
- Brainstorming
- Workshop (Idea Generation)
- Selection Criteria & Idea evaluation
- Workshop (Evaluation)

Day four topics:

- Weighted Evaluation Matrix
- Workshop (WEM)
- Development Phase
- Workshop (Development Phase)
- Total Cost concept, Life Cycle Costing (LCC)
- Workshop (LCC)

Day five topics:

- Presentation skills
- Workshop (Presentation preparation)
- Team Presentation
- Implementing VE proposal
- VE vs. Cost Reduction
- Certification in Value Engineering
- How to integrate VE into your organizational process.
- General discussion and closing remarks



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COE005- Value Engineering Training Workshop



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Fees:

250 KD

Instructor:

Prof. Fawaz Al-Anzi

Prof. Ayed Salman

Computer Engineering

College of Engineering & petroleum

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COE006- Judicial Training on Cybercrime and Digital Forensics

Contact

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-  tpd.occd@eng.ku.edu.kw

Training course duration:

Five Days

Timing:

8 a.m. - 2 p.m. Daily

Course objectives

The program aims to introduce concepts of cybersecurity and digital forensics to policymakers, law enforcement personnel, prosecutors, and judges. The goal is to provide legal and practical knowledge for parties involved in processing cybercrime cases so that they may understand the proper procedures for collecting, processing, analyzing, evaluating, and reporting digital evidence, which is crucial when conducting sound criminal investigation involving electronic data.

Topics covered include internet, cybersecurity, and networking fundamentals, digital forensics (including malware identification, data acquisition, and data analysis), cyber-warfare, privacy and surveillance, laws and principles (focused on Kuwait law), data governance, and cybercrime actors.

Material will be delivered through lectures, hands-on labs, and real-life case studies.

Course outline :

Day one topics:

Computing security concepts and problems: data confidentiality, integrity, availability, authenticity, etc.
Networking: protocols and topologies
Cryptography: encryption and digital signatures

Lab 1 - Network Discovery

Day two topics:

Internet infrastructure
System administration
Intrusion detection and prevention systems



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COE006- Judicial Training on Cybercrime and Digital Forensics

Lab 2 - IPS and IDS case study

Day three topics:

Digital forensics fundamentals

Malware identification and extraction

Linux/Unix file system, data acquisition, and forensic analysis

Windows file system, data acquisition, and forensic analysis

Lab 3 - Forensics experiment

Day four topics:

Cybercrime laws and national security (Part 1: from Kuwait's perspective)

Data governance policies

Cyberwarfare, surveillance, and privacy

Unauthorized access and data leaks

Case study 1

Day five topics:

Cybercrime principles and laws (Part 2: from an international perspective)

Types of malicious actors and their motivations

Treaties and confidence-building measures

Interpersonal and diplomatic relations

Case study 2



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COE006- Judicial Training on Cybercrime and Digital Forensics



جامعة الكويت
KUWAIT UNIVERSITY

Fees:

250 KD

Instructor:

Ameer Mohammed
Ahmad Alattar
Computer Engineering
College of Engineering & petroleum
Kuwait University