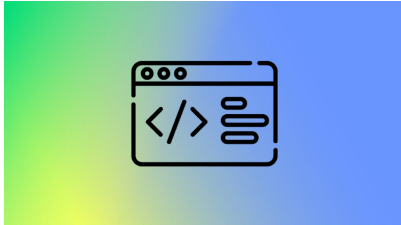


TABLE OF CONTENTS

Coding	3
"Around digital" Skills	3
Angular	3
Angular	3
Automation of repetitive tasks with classical and visual programming (RPA) techniques	4
Automation of repetitive tasks with classical and visual programming (RPA) techniques	4
Conteneurisation avec Docker	5
Découverte du DevOps	5
Découverte du DevOps	6
Demystifying IT career paths	6
Développeur Web	7
DevOps - Gestionnaire des modifications et de la configuration des TIC	8
DevOps - Gestionnaire des modifications et de la configuration des TIC	8
Digital Entrepreneurship 101	9
From Code to Motion: Combining Robotics and Coding for Industrial Automation	9
How to use web services with JavaScript	10
How to use web services with JavaScript	11
Initiation aux technologies du web	11
Introduction to HTML and CSS, the core technologies for building web pages!	11
Introduction to JavaScript – the language of the browser!	12
Introduction to new digital trends	13
Introduction to SQL, the query language for relational databases	13
Introduction to Wordpress	13
JAVA - Advanced Java Programming	14
JAVA - Data Management and Databases	14
JAVA - Introduction to computational thinking and Java programming	15
Java - Junior Developer	16
JAVA - Object Oriented Programming in Java	16
JavaScript	16
Le futur du web	17
Low-Code OutSystems Platform - Reactive Developer Training	17
Modélisation d'une base de données	18
Orchestrer vos applications avec Kubernetes	19
Orchestrer vos applications avec Kubernetes	20
Orchestrer vos applications avec Kubernetes	20
P1 - Introduction à la programmation avec Python	20
P2 - Structures complexes et fonctions	21

P3 – Fonctions, modules, bibliothèques et fichiers	22
P4 – Implémenter une base de données avec Python et MySQL	22
Pipeline de Deploiement avec GitOps	23
Pipeline de Deploiement avec GitOps	23
Python – Basics Camp	23
Python – Object Oriented Programming and Desktop Application Creation	24
Python – Object Oriented Programming and Desktop Application Creation	25
Python Basics	25
ReactJS	26
ReactJS	26
SEO for web developers & front-end developers	26
TypeScript	27
Vision Systems for Industrial Robots	27

CODING



“AROUND DIGITAL” SKILLS

Today, digital technology is everywhere, influencing almost every workplace and work capacity. We aim to help participants fully embrace these changes and discover opportunities in these challenges. This short set of courses aims to help participants discover opportunities in the digital field. We will be working on Project Management, User Experience, entrepreneurial competencies, challenges in today's work environment in relation to digital evolution, and the use of Content Management System.

[View online](#)

Price: 96,00 €

Start date: 19.03.2024

Instructor(s): Marina Andrieu, Apolline Weirich

Language: English

Difficulty: Beginner



ANGULAR

Angular est le framework JavaScript le plus répandu au Luxembourg. Maintenu par Google, il permet d'accélérer tout développement et de poser un cadre pour vos applications.

[View online](#)

Price: 56,00 €

Start date: 11.03.2024

Instructor(s): Nicolas Frizzarin

Language: French

Difficulty: Beginner



ANGULAR

Angular est le framework JavaScript le plus répandu au Luxembourg. Maintenu par Google, il permet d'accélérer tout développement et de poser un cadre pour vos applications.

[View online](#)

Price: 56,00 €

Start date: 27.06.2024

Instructor(s): Nicolas Frizzarin

Language: French

Difficulty: Beginner



AUTOMATION OF REPETITIVE TASKS WITH CLASSICAL AND VISUAL PROGRAMMING (RPA) TECHNIQUES

Numerous companies experience a prevalence of repetitive tasks. Processing data in Excel, obtaining and transferring documents via Outlook, repetitive manipulations of internal ERP systems are just a few examples.

This course is aimed at analysts seeking to automate and professionalise their tasks, as well as managers, wishing to learn about the possibilities offered by the combination of "classic" programming tools and Robotic Process Automation (RPA). During the course, we will present a general definition, key differences, as well as concrete examples of how they have been implemented in business.

Open the doors to programmatic automation, and your vision of work in business will never be the same again.

[View online](#)

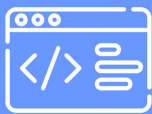
Price: 32,00 €

Start date: 18.04.2024

Instructor(s): Maurizio Napoli, Gauthier Pierard

Language: English

Difficulty: Intermediate



AUTOMATION OF REPETITIVE TASKS WITH CLASSICAL AND VISUAL PROGRAMMING (RPA) TECHNIQUES

Numerous companies experience a prevalence of repetitive tasks. Processing data in Excel, obtaining and transferring documents via Outlook, repetitive manipulations of internal ERP systems are just a few examples.

This course is aimed at analysts seeking to automate and professionalise their tasks, as well as managers, wishing to learn about the possibilities offered by the combination of "classic" programming tools and Robotic Process Automation (RPA). During the course, we will present a general definition, key differences, as well as concrete examples of how they have been implemented in business.

Open the doors to programmatic automation, and your vision of work in business will never be the same again.

[View online](#)

Price: 32,00 €

Start date: 22.10.2024

Instructor(s): Maurizio Napoli, Gauthier Pierard

Language: English

Difficulty: Intermediate



CONTENEURISATION AVEC DOCKER

La conteneurisation est l'une des clé fondatrice de l'informatique moderne et est souvent considérée comme la porte d'entrée vers le Cloud. A la fin de ce module, vous serez capable de conteneuriser et d'exécuter vos application sur Docker.

[View online](#)

Price: 56,00 €

Start date: 12.09.2024

Instructor(s): Jérémy Albrecht

Language: French

Difficulty: Beginner



DÉCOUVERTE DU DEVOPS

Initiation au métier du DevOps. Ce module vous permettra d'appréhender les enjeux de DevOps. L'un des objectifs ici et de démystifier un domaine technique plutôt large.

[View online](#)

Price: 28,00 €

Start date: 14.05.2024

Instructor(s): Jérémy Albrecht

Language: French

Difficulty: Beginner



DÉCOUVERTE DU DEVOPS

Initiation au métier du DevOps. Ce module vous permettra d'appréhender les enjeux de DevOps. L'un des objectifs ici et de démystifier un domaine technique plutôt large.

[View online](#)

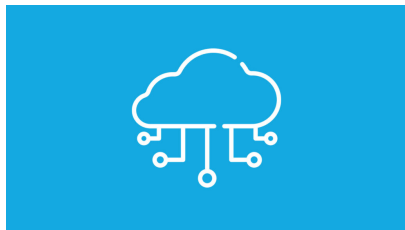
Price: 28,00 €

Start date: 09.09.2024

Instructor(s): Jérémy Albrecht

Language: French

Difficulty: Beginner



DEMYSTIFYING IT CAREER PATHS

The course will cover various IT paths and career opportunities, explaining how the DLH can assist participants eager to pursue an IT career. Participants will gain insights into the roles, responsibilities, and skills required for various IT positions, as well as the latest trends and technologies shaping the industry. This course is ideal for students, career changers, and professionals looking to navigate and succeed in the dynamic world of IT.

[View online](#)

Price: 16,00 €

Start date: 29.03.2024

Instructor(s): Chakib Senhadji

Language: English

Difficulty: Beginner



DÉVELOPPEUR WEB

Apparu avec Internet, le développement web fait référence au processus d'écriture d'un site ou d'une page web dans un langage technique. Il s'agit d'une étape incontournable pour qu'un contenu soit mis en ligne et atteigne ses lecteurs. Le développeur web s'occupe de la réalisation de l'ensemble des fonctionnalités techniques d'un site Internet ou d'une application web. En fonction des exigences présentées dans un cahier des charges précis, ce spécialiste analyse les besoins et définit la solution technique adaptée. Il développe ensuite les fonctionnalités du site ou de l'application web en rédigeant des lignes de code. Ses missions incluent également le diagnostic et la résolution de problèmes détectés sur un site déjà en ligne. La polyvalence, l'autonomie, la capacité d'adaptation ainsi que le respect des délais figurent parmi les qualités de ce professionnel.

Les sujets abordés lors des cours :

- Les fondamentaux – comment fonctionne un navigateur web ?
- JavaScript – le moteur des applications Web
- TypeScript – le Super Set de JavaScript
- Apprenez le framework web de Google le plus utilisée au Luxembourg
- Apprenez la librairie Front end de Facebook, la plus utilisée au Luxembourg
- Comprendre le futur du Browser (navigateur web)

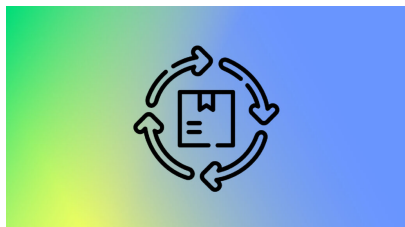
[View online](#)

Price: 252,00 €

Start date: 07.06.2024

Instructor(s): Nicolas Frizzarin / Enes Koc

Language: French

Difficulty: Intermediate

DEVOPS – GESTIONNAIRE DES MODIFICATIONS ET DE LA CONFIGURATION DES TIC

En favorisant la communication et la collaboration entre les équipes chargées du développement et des opérations IT, le DevOps vise à optimiser la satisfaction client et à proposer des solutions à valeur ajoutée plus rapidement. Le DevOps est aussi conçu pour stimuler l'innovation dans une optique d'amélioration continue des processus.

Les sujets abordés lors des cours :

- Initiation au métier du DevOps
- La porte vers le Cloud
- Apprenez comment configurer un pipeline en utilisant GitOps
- Dernière étape d'une chaîne DevOps : L'orchestration de conteneur en utilisant Kubernetes

[View online](#)

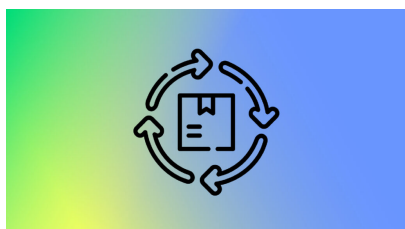
Price: 168,00 €

Start date: 14.05.2024

Instructor(s): M. Guillaume HOMBERG

Language: French

Difficulty: Beginner



DEVOPS – GESTIONNAIRE DES MODIFICATIONS ET DE LA CONFIGURATION DES TIC

En favorisant la communication et la collaboration entre les équipes chargées du développement et des opérations IT, le DevOps vise à optimiser la satisfaction client et à proposer des solutions à valeur ajoutée plus rapidement. Le DevOps est aussi conçu pour stimuler l'innovation dans une optique d'amélioration continue des processus.

Les sujets abordés lors des cours :

- Initiation au métier du DevOps
- La porte vers le Cloud
- Apprenez comment configurer un pipeline en utilisant GitOps
- Dernière étape d'une chaîne DevOps : L'orchestration de conteneur en

utilisant Kubernetes

[View online](#)

Price: 168,00 €

Start date: 09.09.2024

Instructor(s): Guillaume Homberg / Jérémy Albrecht

Language: French

Difficulty: Beginner



DIGITAL ENTREPRENEURSHIP 101

This course aims to help participants with their tech entrepreneurial journey and give them insights and advice on how to start their projects. The first part of the session is a lecture full of information and the second part will serve as practice.

[View online](#)

Price: 24,00 €

Start date: 16.04.2024

Instructor(s): Marina Andrieu

Language: English

Difficulty: Beginner



FROM CODE TO MOTION: COMBINING ROBOTICS AND CODING FOR INDUSTRIAL AUTOMATION

Discover the fascinating world of industrial robotics with comprehensive training program. Designed for beginners, this training will provide you with a solid introduction to robotics and equip you with essential skills to thrive in this field.

Throughout the course, you will delve into key elements of robotics, starting with an in-depth exploration of the fundamental principles that underpin this cutting-edge technology. From there, you will progress to robotics programming, where you will learn to program robots using a variety of languages, including Teach & Play, Blockly, and introductory Python.

The course goes beyond theory by emphasizing practical applications of robotics. You will gain insights into real-world scenarios where robots are utilized across different industries and sectors. Additionally, you will have

hands-on experience working with dobot robots, enabling you to develop and program robots to perform specific tasks in both manual and autonomous modes.

Collaboration is a vital aspect of our workshop, as you will engage with fellow participants to complete a final project that showcases your understanding of robotics and programming concepts. By the end of the course, you will have acquired a solid foundation in robotics, mastered programming techniques, and developed critical thinking skills applicable to real-life situations.

Don't miss this opportunity to unlock your potential in the exciting field of industrial robotics. Enroll today and embark on a transformative learning journey that will broaden your horizons and open doors to endless possibilities.

[View online](#)

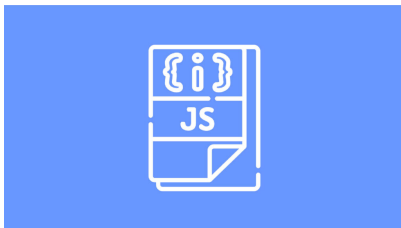
Price: 160,00 €

Start date: 20.06.2024

Instructor(s): Abdoellah Adam

Language: English

Difficulty: Beginner



HOW TO USE WEB SERVICES WITH JAVASCRIPT

Imagine you would like to get information about a country and use these data on your website. How would you do that?

Where would you get the data from? The solution is easy!

Nowadays, you address an open online database via a web service to retrieve the information that is publicly available.

This course provides you with an overview of a “service-oriented architecture”. After a brief introduction to Javascript, you learn how to send requests to a web service, how to retrieve information and how to display them in a browser. Learners will gain hands-on experience in utilizing JavaScript to interact with web services.

Although this course is not a typical Javascript class, it summarizes basic structures and instructions and introduces you to the basic concepts of reading JSON files. Therefore, programming knowledge is not a prerequisite as such.

[View online](#)

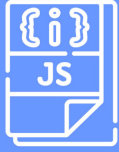
Price: 64,00 €

Start date: 30.03.2024

Instructor(s): Dren Gashi

Language: English

Difficulty: Intermediate



HOW TO USE WEB SERVICES WITH JAVASCRIPT

Imagine you would like to get information about a country and use these data on your website. How would you do that?

Where would you get the data from? The solution is easy!

Nowadays, you address an open online database via a web service to retrieve the information that is publicly available.

This course provides you with an overview of a “service-oriented architecture”. After a brief introduction to Javascript, you learn how to send requests to a web service, how to retrieve information and how to display them in a browser. Learners will gain hands-on experience in utilizing JavaScript to interact with web services.

Although this course is not a typical Javascript class, it summarizes basic structures and instructions and introduces you to the basic concepts of reading JSON files. Therefore, programming knowledge is not a prerequisite as such.

[View online](#)

Price: 64,00 €

Start date: 02.11.2024

Instructor(s): Dren Gashi

Language: English

Difficulty: Intermediate



INITIATION AUX TECHNOLOGIES DU WEB

Les fondamentaux - comment fonctionne un navigateur web ? L'écosystème Web est en constante évolution et le navigateur est au centre de celle-ci. Vous apprendrez à mieux appréhender le navigateur et ses capacités.

[View online](#)

Price: 28,00 €

Start date: 07.06.2024

Instructor(s): Nicolas Frizzarin

Language: French

Difficulty: Beginner



INTRODUCTION TO HTML AND CSS, THE CORE TECHNOLOGIES FOR BUILDING WEB PAGES!

Have you ever wondered how pages are created? Would you like to learn how to create a web page? In this course, you will be learning how to create a static web page from scratch by using the main technologies of the web: HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). HTML provides the structure of the page while CSS is responsible for the (visual) layout for a variety of devices.

The training sessions are very hands-on oriented in dedicated computer rooms. Participants can also bring their own laptop.

Through an active engagement, we will have a look at versatile use-cases of HTML and CSS for creating modern web pages.

[View online](#)

Price: 64,00 €

Start date: 07.09.2024

Instructor(s): Dren Gashi

Language: English

Difficulty: Beginner



INTRODUCTION TO JAVASCRIPT – THE LANGUAGE OF THE BROWSER!

JavaScript is the language of the browser! And not only that: JavaScript also remains the most popular programming language for the tenth time in a row and is used by almost 17.5 million developers worldwide (Source: State of the Developer Nation 2022). Not only do new developers see JavaScript as an attractive entry-level language, but existing developers are also using it to expand their skills. As a result, JavaScript is now used by more than half of the developers working on web applications. So this is a course you don't want to miss!

We will learn how to create dynamic web pages with JavaScript. The training sessions are very hands-on oriented in dedicated computer rooms.

Participants can also bring their own laptop.

Through an active engagement, we will have a look at versatile use-cases of JavaScript and especially use it for validation purposes.

[View online](#)

Price: 64,00 €

Start date: 05.10.2024

Instructor(s): Dren Gashi

Language: English

Difficulty: Intermediate



INTRODUCTION TO NEW DIGITAL TRENDS

Digital transformation is always evolving, this course aims to help participants assess the opportunities that these digital trends can offer them. The session will be divided into two parts. The first half will be dedicated to discovering and understanding the new digital trends while the other half will be dedicated to practicing some of them.

[View online](#)

Price: 24,00 €

Start date: 23.04.2024

Instructor(s): Marina Andrieu

Language: English

Difficulty: Beginner



INTRODUCTION TO SQL, THE QUERY LANGUAGE FOR RELATIONAL DATABASES

SQL is the most popular query language par excellence and is used by many world-famous companies such as Facebook, Microsoft, Adobe and others. It is hard to imagine working with relational databases without SQL. In this very practical course we will not only learn about the language, but also perform various data queries on a MySQL server.

The training sessions are very hands-on oriented in dedicated computer rooms.

Through an active engagement, we will tackle various problem sets and discuss the different approaches.

[View online](#)

Price: 64,00 €

Start date: 23.11.2024

Instructor(s): Dren Gashi

Language: English

Difficulty: Beginner



INTRODUCTION TO WORDPRESS

Launched 20 years ago, WordPress is the most powerful content management system (CMS) on the web. The participants will learn the difference between the two versions of Wordpress and which version is the best depending on their objectives and technical skills. From theory to practice they will be able to start their first website or blog.

[View online](#)

Price: 24,00 €

Start date: 19.03.2024

Instructor(s): Apolline Weirich

Language: English

Difficulty: Beginner



JAVA - ADVANCED JAVA PROGRAMMING

This module is designed for learners who completed Module 1, or who have full knowledge of its concepts and would like to learn some more advanced tools to design software. In particular, the participants will learn how to structure their software in a more organized and efficient way using functions, in addition to the main source code. During this module, the participants will also be learning how to organize and manage a bigger amount of data in an ordered sequential structure.

The lessons are interactive and will be divided between theory sections and practical exercises, in which the learners can consolidate their knowledge. In addition, several small projects run throughout the module, and there will be a final project that will incorporate content from Modules 1 & 2.

[View online](#)

Price: 80,00 €

Start date: 30.09.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Beginner



JAVA – DATA MANAGEMENT AND DATABASES

This module is designed for participants who completed Modules 1 and 2, or anyone has full knowledge of their concepts and would like to learn some more advanced tools to design software. In particular, the students will learn how to use databases, which is a necessary and universal way to store and organize large amounts of data. Through exercises and small projects, learners will translate real-world cases into software in which the user can insert, manage, search, and delete data.

The lessons will be interactive, and will include theoretical and practical sections in which the learners can directly consolidate their knowledge. Learners will develop professional software written in Java programming language. With this conclusive module, participants will acquire the abilities necessary to obtain the job position of Java Developer.

[View online](#)

Price: 80,00 €

Start date: 11.11.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Intermediate



JAVA – INTRODUCTION TO COMPUTATIONAL THINKING AND JAVA PROGRAMMING

This module is for anyone would like to learn the basic concepts of computer programming applied to the Java programming language and to become a future Java Developer.

Designed for beginner-level learners participants, this course introduces a complete knowledge of coding with Java basic tools, and uses a practical approach which enables participants to design and develop their own software.

The lesson methodology is interactive, with the time is split between theory and practice, so that participants can learn by practice, directly apply their new knowledge in a practical learning experience.

[View online](#)

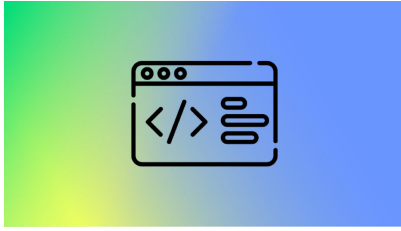
Price: 80,00 €

Start date: 09.09.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Beginner



JAVA – JUNIOR DEVELOPER

The aim of this Learning Track is to provide full knowledge in coding with Java so that participants, who have no prior knowledge in Java programming, can take on a position as Java Jr Developer upon completion of the course.

[View online](#)

Price: 320,00 €

Start date: 09.09.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Beginner



JAVA – OBJECT ORIENTED PROGRAMMING IN JAVA

This module is designed for participants who completed Modules 1 and 2, or anyone has full knowledge of their concepts and would like to learn some more advanced tools to design software. In particular, participants will learn how to design their software using Object-Oriented Programming. OOP is a powerful and universal way to conceive software features and functionalities, enabling efficient and versatile software design.

Participants will learn how to translate real-world cases in a software that is understandable and easy to use for users, and create software that helps to face and solve real-life issues that might occur, both in the workplace and outside of it.

The lessons will be interactive, and will include theoretical and practical sections in which the learners can directly consolidate their knowledge. Several small projects run throughout the module, and there will be a final group project that will incorporate contents from Modules 1, 2 & 3.

[View online](#)

Price: 80,00 €

Start date: 21.10.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Intermediate



JAVASCRIPT

Le moteur des applications web. Une étape obligatoire pour tout développeur web. Vous apprendrez tout ce qui est nécessaire pour le développement JavaScript ainsi que les bons cas d'usage.

[View online](#)

Price: 56,00 €

Start date: 13.06.2024

Instructor(s): Nicolas Frizzarin

Language: French

Difficulty: Beginner



LE FUTUR DU WEB

Nous sommes actuellement dans un virage technologique fort pour le développement front-end. Ce cours vous permettra de mieux appréhender les changements à venir pour répondre aux problèmes de demain.

[View online](#)

Price: 28,00 €

Start date: 17.09.2024

Instructor(s): Enes Koc

Language: French

Difficulty: Beginner



LOW-CODE OUTSYSTEMS PLATFORM – REACTIVE DEVELOPER TRAINING

The OutSystems Reactive Developer Training is a comprehensive course designed to equip participants with the necessary skills and knowledge to develop reactive web applications using the OutSystems platform.

In today's fast-paced digital landscape, organizations are seeking efficient and agile solutions to deliver high-quality web applications. This course addresses this need by providing a deep dive into reactive development, a popular approach for building responsive and interactive web applications.

The training begins with an introduction to the fundamentals of reactive web development, ensuring that participants have a solid understanding of the underlying concepts. From there, the course covers a range of topics including data modeling and server-side logic implementation. Participants will also gain hands-on experience in leveraging the OutSystems platform to develop robust and scalable applications.

The primary aim of this course is to empower developers with the skills and expertise needed to leverage reactive web development and the OutSystems platform effectively. By the end of the course, participants will be able to design, develop, and deploy reactive web applications.

The course adopts a practical and interactive approach, combining theoretical instruction with hands-on exercises. Participants will have the opportunity to apply their learning through practical exercises and engage in collaborative discussions with instructors and peers.

Overall, the OutSystems Reactive Developer Training offers a valuable learning experience for developers looking to enhance their expertise in reactive web development and leverage the capabilities of the OutSystems platform to build modern and responsive web applications.

[View online](#)

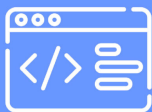
Price: 140,00 €

Start date: 13.05.2024

Instructor(s): Siyaul Haqu Ebrahim Kunju Madeera

Language: English

Difficulty: Beginner



MODÉLISATION D'UNE BASE DE DONNÉES

SGBD

Préparer les données

Redondances de données

Trancher les données à l'aide de la matrice des dépendances

Définir clé primaire et clé étrangère

Etablir un modèle conceptuel de données

Les relations

Les cardinalités

Modèle logique des données

Représentation virtuelle des données

Modèle physique des données

Formes normales

Contrainte d'intégrité fonctionnelle

Ce cours permet aux participants de trancher parmi les données pour construire un modèle physique de données qui sert de plan pour construire une base de données. Le but principal est d'éviter des redondances et de détecter des contraintes d'intégrité fonctionnelle afin d'éviter des problèmes de gestion des données.

Des exercices pratiques mènent les participants à bien assimiler les tranches de théorie de la matière traitée.

[View online](#)

Price: 36,00 €

Start date: 10.10.2024

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



ORCHESTRER VOS APPLICATIONS AVEC KUBERNETES

Dernière étape d'une chaîne DevOps: être capable d'orchestrer ses ressources en vue d'optimiser ses déploiements. Dans ce module, nous aborderons les notions de cluster, d'unité de déploiement et de réplication. Pour ce faire, nous utiliserons Kubernetes, technologie opensource leader du marché.

[View online](#)

Price: 56,00 €

Start date: 15.04.2024

Instructor(s): Guillaume Homberg

Language: French

Difficulty: Beginner



ORCHESTRER VOS APPLICATIONS AVEC KUBERNETES

Dernière étape d'une chaîne DevOps: être capable d'orchestrer ses ressources en vue d'optimiser ses déploiements. Dans ce module, nous aborderons les notions de cluster, d'unité de déploiement et de réplication. Pour ce faire, nous utiliserons Kubernetes, technologie opensource leader du marché.

[View online](#)

Price: 56,00 €

Start date: 22.05.2024

Instructor(s): Guillaume Homberg

Language: French

Difficulty: Beginner



ORCHESTRER VOS APPLICATIONS AVEC KUBERNETES

Dernière étape d'une chaîne DevOps: être capable d'orchestrer ses ressources en vue d'optimiser ses déploiements. Dans ce module, nous aborderons les notions de cluster, d'unité de déploiement et de réplication. Pour ce faire, nous utiliserons Kubernetes, technologie opensource leader du marché.

[View online](#)

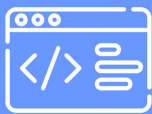
Price: 56,00 €

Start date: 23.09.2024

Instructor(s): Guillaume Homberg

Language: French

Difficulty: Beginner



P1 – INTRODUCTION À LA PROGRAMMATION AVEC PYTHON

Ce cours va donner un aperçu sur les manipulations de base en programmation basé sur le langage de python.

L'apprenant aura des connaissances des variables, des instructions de structures de condition (if) et des structures de répétition (while).

Ce cours aura comme but que l'apprenant sera capable de réaliser des petits programmes tels qu'une calculatrice ou une analyse de texte.

Des tranches de théories seront suivies par des exercices pratiques. Après chaque séance, un travail à domicile facultatif est proposé et la théorie peut être révisée à travers des QCM.

[View online](#)

Price: 48,00 €

Start date: 03.09.2024

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



P2 – STRUCTURES COMPLEXES ET FONCTIONS

Pour aller plus loin dans la programmation, des structures complexes sont indispensables tel que liste, tuple, dictionnaire et set seront traités.

L'exploitation de ces structures est facilitée par une nouvelle structure de répétition tel que le for.

Des manipulations d'ajoute, de suppression et de modifications des éléments et des structures sont traitées.

Après l'exploitation des listes à une dimension, une exploitation à 2 dimensions est abordée, qui sera suivie par le thème de boucles imbriquées.

Le cours se termine par une introduction aux fonctions pour alléger le code du programme.

Des tranches de théories seront suivies par des exercices pratiques. Après chaque séance un travail à domicile facultatif est proposé et la théorie peut être révisée à travers des QCM.

[View online](#)

Price: 48,00 €

Start date: 01.10.2024

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



P3 – FONCTIONS, MODULES, BIBLIOTHÈQUES ET FICHIERS

Programmer des fonctions et rassembler ces fonctions dans des modules
Exporter une fonction dans un module
Inclure une fonction à partir d'un module dans le programme

Travailler avec des fichiers
Lire un fichier
Ecrire un fichier

Rédiger des fonctions est un atout dans la programmation ainsi que l'échange de données à travers des fichiers texte.
Des tranches de théories seront suivies par des exercices pratiques. Après chaque séance un travail à domicile facultatif est proposé et la théorie peut être révisée à travers des QCM.

[View online](#)

Price: 48,00 €

Start date: 12.03.2024

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



P4 – IMPLÉMENTER UNE BASE DE DONNÉES AVEC PYTHON ET MYSQL

Implémenter une base de données avec Python et Mysql.
L'utilisateur apprend à établir une connexion entre le programme et le serveur et à rédiger des instructions Python/Mysql pour construire une base de données.
Etablir des clés primaires et clés étrangères.
Gérer les contraintes référentielles.
Échange de données (injection, lecture) par l'intermédiaire de tuples ainsi que la suppression de données seront réalisés.

Ce cours permet de comprendre la mise en œuvre d'une base de données relationnelle, du modèle physique de données jusqu'à la réalisation et l'exploitation des tables.

Des tranches de théories seront suivies par des exercices pratiques. Après chaque séance un travail à domicile facultatif est proposé et la théorie peut être révisée à travers des QCM.

[View online](#)

Price: 48,00 €
Start date: 03.12.2024
Instructor(s): GNAD Christiane
Language: French
Difficulty: Beginner



PIPELINE DE DEPLOIEMENT AVEC GITOPS

Une fois vos application conteneurisées, il sera temps de construire une chaîne de build et de déploiement qui vous permettra d'industrialiser vos processus. Vous apprendrez ici les bases des pipelines en utilisant l'imprementation de GitHub. L'objectif est d'automatiser vos tests unitaires, votre build et enfin votre déploiement

[View online](#)

Price: 28,00 €
Start date: 21.05.2024
Instructor(s): Jérémy Albrecht
Language: French
Difficulty: Beginner



PIPELINE DE DEPLOIEMENT AVEC GITOPS

Une fois vos application conteneurisées, il sera temps de construire une chaîne de build et de déploiement qui vous permettra d'industrialiser vos processus. Vous apprendrez ici les bases des pipelines en utilisant l'imprementation de GitHub. L'objectif est d'automatiser vos tests unitaires, votre build et enfin votre déploiement

[View online](#)

Price: 28,00 €
Start date: 16.09.2024
Instructor(s): Jérémy Albrecht
Language: French
Difficulty: Beginner



PYTHON – BASICS CAMP

This course is ideal for people with no previous knowledge of Python and want to learn more about programming and in particular the world's most widely used programming language. The course will provide a complete understanding of Python's the basic tools and operators, including variables, conditionals, and loops. The aim of the course is to provide students with a basic knowledge of coding with Python so that they are able to create their own working software. The lesson will take place in an interactive and practical format, alternating between theory and exercises, where the students can put their knowledge into practice. To maintain focus and a collaborative environment, there will be a final group project that will incorporate everything learned during the course.

[View online](#)

Price: 80,00 €

Start date: 28.10.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Beginner



PYTHON – OBJECT ORIENTED PROGRAMMING AND DESKTOP APPLICATION CREATION

This course is ideal for anyone who already has a basic knowledge in Python coding and wants to learn how to develop high-level softwares using the world's most widely used programming language. The course will provide a comprehensive understanding of advanced tools and code structures in Python, reviewing functions, classes, databases and user interfaces. The aim of the course is to provide students with a better knowledge of coding with the Python language so that they are able to create professional software. The lesson will take place in an interactive and practical format, alternating between theory and exercises, where the students can apply their knowledge into practice. To maintain attention and a collaborative environment, there will be a final group project that will integrate everything that has been learned during the course.

[View online](#)

Price: 80,00 €

Start date: 05.08.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Intermediate



PYTHON – OBJECT ORIENTED PROGRAMMING AND DESKTOP APPLICATION CREATION

This course is ideal for anyone who already has a basic knowledge in Python coding and wants to learn how to develop high-level softwares using the world's most widely used programming language. The course will provide a comprehensive understanding of advanced tools and code structures in Python, reviewing functions, classes, databases and user interfaces. The aim of the course is to provide students with a better knowledge of coding with the Python language so that they are able to create professional software. The lesson will take place in an interactive and practical format, alternating between theory and exercises, where the students can apply their knowledge into practice. To maintain attention and a collaborative environment, there will be a final group project that will integrate everything that has been learned during the course.

[View online](#)

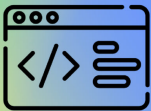
Price: 80,00 €

Start date: 25.11.2024

Instructor(s): Lisa Hennecart

Language: English

Difficulty: Intermediate



PYTHON BASICS

Apprendre à programmer en langage Python.

Ce Learning Track (parcours d'apprentissage) est composé des quatre modules suivants :

[View online](#)

Price: 192,00 €

Start date: 03.09.2024

Instructor(s): GNAD Christiane

Language: French

Difficulty: Beginner



REACTJS

React est une librairie très utilisée concurrente à Angular. Le point fort de React est sa légèreté. Développée par les équipes de Facebook, cette librairie est incontournable dans l'écosystème actuel.

[View online](#)

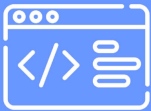
Price: 56,00 €

Start date: 21.03.2024

Instructor(s): Enes Koc

Language: French

Difficulty: Beginner



REACTJS

React est une librairie très utilisée concurrente à Angular. Le point fort de React est sa légèreté. Développée par les équipes de Facebook, cette librairie est incontournable dans l'écosystème actuel.

[View online](#)

Price: 56,00 €

Start date: 12.09.2024

Instructor(s): Enes Koc

Language: French

Difficulty: Beginner



SEO FOR WEB DEVELOPERS & FRONT-END DEVELOPERS

This training covers the essentials of SEO for web development practitioners and is aimed at raising awareness among developers about how they can better support content editors, web marketers (and all the job positions involved in the SEO process) by integrating the tools best suited to their tasks, including AI, which is playing a major role in SEO today.

[View online](#)

Price: 48,00 €

Start date: 14.05.2024

Instructor(s): Ludovic GIAMBIASI

Language: English

Difficulty: Beginner



TYPESCRIPT

Typescript - Le Super Set de JavaScript. Aujourd'hui, TypeScript fait partie intégrante du développement front-end. Il apporte de grandes améliorations à JavaScript comme le typage fort. Maintenu par Microsoft, il est le langage de base de pléthore de framework web comme Angular.

[View online](#)

Price: 28,00 €

Start date: 20.06.2024

Instructor(s): Nicolas Frizzarin

Language: French

Difficulty: Beginner



VISION SYSTEMS FOR INDUSTRIAL ROBOTS

In the industrial world, the synergy between vision systems and robots has become increasingly prevalent and indispensable. Vision systems are essential tools used for quality inspection, coordinate determination, and various other tasks in industrial settings. This course, "Vision Systems for Industrial Robots," is designed to provide beginners with a comprehensive introduction to using vision applications in conjunction with industrial robots.

[View online](#)

Price: 64,00 €

Start date: 10.07.2024

Instructor(s): Adam Abdoellah

Language: English

Difficulty: Beginner