ITS PRODIGI Foundation – Higher Technical Education Programs

ITS EDGE DEVELOPER COURSE
Advanced Technician for the Development of Edge Computing Solutions Integrated with AI Tools
Post-diploma course 2025/2027

COURSE OBJECTIVES

To train young professionals specialized in software programming with **specialized skills in Edge Computing and Artificial Intelligence.** The course's educational objectives are: to understand artificial intelligence for data manipulation and to use algorithms to solve complex business problems.

TARGET AUDIENCE

The two-year course is designed for **25 young people who have completed high school** and includes a total **of** 2,000 hours, **900 of which are dedicated to internships**, with an integrated curriculum featuring **classroom** instruction; **laboratory** activities, **internships** in Italy and abroad, **educational field trips**, **seminars**, **and meetings** with industry representatives.

COURSE PROGRAM

UF	Unit Name	No. of Hours
1	**Relationship and Communication Systems in the Digital Enterprise:** Teamwork, Internal and external communication processes; Digital tools for internal and external communication and for teamwork; Customer relations;	40
2	The **world of work:** Labor law and contracts, and self-employment, Safety	24
3	**Smart Industry and Smart Specialization Strategy – S3** Introduction to Statistics for Business Data Analysis, Industry 5.0: Smart and Sustainable Business, Ecological Transition and Digital Transition, Digital Strategy and Data Analytics. Machine Ethics and Artificial Intelligence	86
4	**(Multi)linguistic skills**: English at B2 level, technical English	74
5	**Innovation Management and Industry 5.0** Agile, Innovation Management and related ISO standards, Project Management, Software Development Life Cycle, DevOps Methodologies	52
6	**Cybersecurity:** GDPR, Privacy and Data Security**,** Linux and Windows, Network Systems (LAN, MAN, WAN), Data Transmission Protocols and Languages: HTTP, JSON, XML, Cybersecurity and the EU NIS2 Directive	108
7	**Web Development**: User Experience Design, HTML/JavaScript, CSS	132

8	**CMS - Content Management System:** Digital Content Creation, WordPress	**72**
9	**Business Intelligence:** SQL databases, NoSQL, Big Data, Data Warehouse, Data Shaping, Google Analytics, Microsoft Power BI (Business Intelligence)	**76**
10	**Fundamentals of Programming**: C++ Programming, Java Programming	**112**
11	**ICT Application Implementation**: C#, Python, Software Testing	**132**
12	**Transition 5.0: Development of Edge Computing Integrated with AI Tools:** Machine Learning-ML.Net, Edge Computing Topologies, Energy Efficiency in Edge Computing Systems (ISO 50001), Project Work, In-Depth Analysis of the latest developments in the digital field	**100**
13	**INTERNSHIP**	**900**

Course Location: Assoservizi srl, Via Roma 2, Arezzo

Course Dates: October 30, 2025 – September 2027

Assoservizi Contacts:

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