

DATA SCIENCE



SPECIALIZATION

DATA SCIENCE AND APPLIED ANALYTICS

SYNCHRONOUS CLASSES IN HYBRID MODE



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Building No. 5, Office 5-209



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**WHY STUDY THE
SPECIALIZATION IN
DATA SCIENCE AND
APPLIED ANALYTICS
AT UTP?**



Innovative Program:
It responds to current market needs, training specialists capable of making strategic decisions based on data.



Practical Approach:
It combines theory and practice with cutting-edge tools and technologies for solving complex problems.



Expert Teachers:
Teaching staff with academic and professional experience in analytics and data science



Networking:
Access to an academic and business community that connects with industry leaders



A Recognized University:
The Technological University of Pereira ranked 4th in the DTI - Sapiens ranking according to the indicators of technological development and innovation in 2023



High Job Demand:
Analytics and data science are key areas in sectors such as finance, technology, and healthcare, with significant growth in job opportunities.



Flexible Modality
Designed for practicing professionals, with convenient hours and access to resources such as specialized software, laboratories, and digital libraries



Ethical and social impact:
It contributes to the development of a fairer and more responsible world, integrating ethical principles and citizenship into every project and data-driven decision.

OUR PURPOSE

This program trains expert Data Science professionals, from fundamental principles to advanced applications. It includes mastery of tools such as Python, Big Data analytics techniques, and multivariate data governance. The program focuses on specific skills such as the use of Machine Learning algorithms, data mining techniques, and deep learning. It also trains participants in extracting knowledge from unstructured data, preparing them for current challenges in data analytics.

ADDRESSED TO

The specialization is aimed at professionals seeking to develop advanced skills in the field of data science. It is designed to attract individuals with backgrounds in disciplines such as computer science, statistics, mathematics, engineering, or other related areas.



**Specialist in Data Science
and Applied Analytics**



1 Year



Day

Friday 6:00 p.m. to 10:00 p.m.

Saturdays 8:00 a.m. to 2:00 p.m.



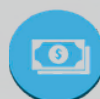
Number of Credits

27



Admission

By cohorts



6.0 SMLV

ACCREDITATION

Qualified Registration: Resolution 023892 of December 5, 2024 for 7 years.

Graduates of the Specialization in Data Science and Applied Analytics are distinguished as highly trained professionals, equipped with advanced skills in Data Science and prepared to face present and future challenges in both academic and business environments, combined with the ability to effectively apply artificial intelligence techniques to extract meaningful knowledge from complex data.

GRADUATE PROFILE

LEARNING PATH

OF

Integrated Project₁

Deep Learning

AND

OF

Integrative Project₂

Multi-criteria
Decision Analysis

AND

Cybersecurity
and data
privacy

AND

***TI: RESEARCH PAPER**

***E: ELECTIVE**

LEARNING PATH

1

Introduction to
Data Science

Machine Learning
for Predictive
Models

2

1

Python for Data
Science

Analysis of
Unstructured Data

2

1

Data Mining and
Analytics in Big
Data

Advanced Data
Visualization

2

1

Multivariate Data
Analysis

***1: FIRST SEMESTER**

***2: SECOND SEMESTER**

REGISTRATION

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**Admissions, Registration and Academic Control
- Building No. 3 - UTP Email:
inscripcion@utp.edu.co Tel: (57) (6) 313 71 39 -
Switchboard: (57) (6) 313 73 00 Exts: 7176 -
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Universidad
Tecnológica
de Pereira

Vigilada Mineducación

Resolución 12220 de 2016

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UTPereira

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icetex@utp.edu.co Tel: (57) (6) 321 0029 - 313 7405**