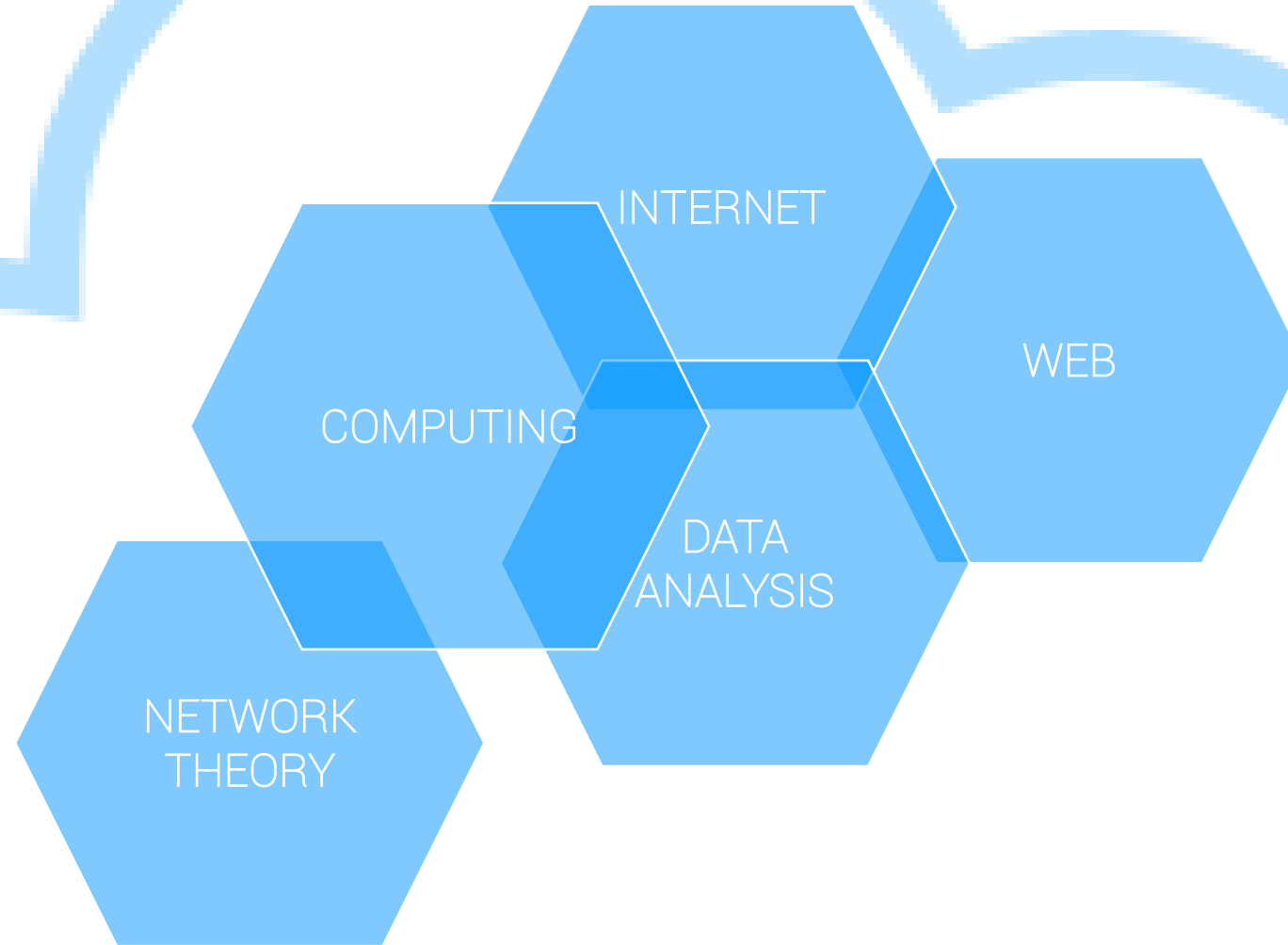


MASTER'S DEGREE IN
TELECOMMUNICATION
ENGINEERING

Telematics Specialization

Vigo, November, 2021

Contents of TELEMATICS Specialization



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NETWORK THEORY

- Massive IoT
- Robustness
- 5G/6G technologies
- Information dissemination
- Collective intelligence
- LoPAN Networks
- Personal Networks

INTERNET

- Communication principles
- Mass storage
- Edge-computing architectures
- Massive random access
- Data-driven design

DATA ANALYSIS

- Classification
- Clustering
- Data visualization
- Large-scale analysis
- Data transformation
- Link analysis
- Folksonomies

WEB

- Reference architectures
- Semantic Web
- Web services
- Social Web
- Indexing
- Collective intelligence

COMPUTING

- Ubiquitous computing
- High availability
- Evolutionary techniques
- Parallelization
- Distributed systems
- Grid and cluster computing

Job duties

- Cloud computing: Amazon AWS, Azure, Virtualization
- CISO (Chief Information Security Officer)
- Networking: Cisco routers and switches
- Front end developer: HTML, CSS and Javascript
- Big Data: Apache Hadoop, Spark, HBase, Kafka, Impala and Hive environments;
- Scala and Java; databases; data analysis tools;
- Cloud computing technologies

SECTOR	THE MOST WANTED	THE HIGHEST PAID
TELECO	Teleco Solutions Pre-sales Engineer	IT Security Expert
IT	Full Stack Developer	Big Data Architect
Commercial	Key Account Manager	Export Area Manager
Marketing	Chief Digital Officer	Hear of Programming Trader
Engineering	Quality Engineer	Plant Manager
Retail	Flagship Manager	District Manager
Logistics	Technical Buyer	Operations Manager
Financial	Management Controller	Financial Manager
Corporate	Transformation Manager	Human Resources Manager
Legal	Commercial and Corporate Lawyer	Compliance Officer
Life science	Qualifications and Validation Technician	Medical Scientific Liaison

Career opportunities

- Communication network operators (Internet, TV, fixed and mobile telephony...) and communication equipment research and development companies.
- Civil and defense software engineering companies.
- Configuration, installation and operation of networks for companies and government agencies.
- Configuration and installation of commercial websites.
- Development and operation of telematic applications:
 - teleworking, teletraining, telemedicine, e-commerce and e-government, e-home, etc.
- Teaching and research

