

NOVA

NOVA SCHOOL OF
SCIENCE & TECHNOLOGY

Executive Education
From Tech to Value

Inspiring Tech Safari

(I-TECH Safari)



**Corporate
Transformation**

Corporate Partner:

winworld
inspiring the future



**Many of
the tech-
nologies
that will
disrupt
industry
and
services
tomor-
row are
being
carved**

today in research and de- velop- ment labs.

Over- view

The pace of technology development and adoption by companies is bigger than ever in all economic domains, from agriculture to finance, from healthcare to manufacturing. Executives must create awareness on these technologies and comprehend the potential impact in their business, from being game changers and enable 'creative destruction' to simple order of magnitude gains in efficiency.

During 3 unforgettable days

you will have the opportunity to listen, speak and discuss with the most notable scientists and researchers that are leading some of the new and inspiring tech revolutions that are changing the world, visit their laboratories, and uncover what technologies have the most potential to impact your business, and recognise the role of technology to tackle the world's toughest challenges.

The course will address:

- advanced materials: nanomaterials and the nanotechnology
- the new technologies for clean and intelligent energy
- how we are decarbonizing industries and services
- the flow of data and artificial intelligence
- the ubiquity of sensors and the next generation of communication networks
- how blockchain technology is conquering other domains
- the impact of having robots that are more collaborative, precise and even empathic
- the autonomous mobility
- what 3D printing elements can be found from the human body to aeroplanes
- how we are getting closer to regenerative medicine with Tissue Engineering
- the creation of life elements with synthetic biology
- what are the green technologies for depolluting society
- how quantum computing will make what once was thought as impossible turned into possible

Con- tent



Learning outcomes

**At the end
of this course
executives will
be able to:**

characterise the main
emerging and advanced
technologies

understand the potential
of disruption from each
technology

comprehend the level
of maturity of the
emergent technologies

envision which
technology will enable
to create new business
opportunities

recognise what are the
startups and companies
that are in the forefront
of the technology



Participants Profile

**This program
is designed for
individual business
executives and
teams in mid
to senior-level
management.**





Ideal participants include: C-level managers, executives in business development, marketing, sales, operations, customer service, HR, legal and finance.

For maximum impact, and where possible, we recommend groups colleagues from same company, so examples and applications can be more customised.

The goal is for executives to gain a deeper understanding of the latest innovative technologies and how they can disrupt future industry and services, assimilating a functional understanding of technology rather than technical expertise.

Elvira Fortunato



Elvira Fortunato won the Pessoa 2020 Prize, which reaches this year its 34th edition, in recognition of her work with the paper transistor and also for creating the world's first fully transparent screen.

Scientist, professor and researcher at the NOVA School of Science and Technology has been regularly awarded both nationally and internationally. Recently she was awarded the European "Horizon Impact Award 2020" for her work in the field of sustainable materials.

Actually, Professor Elvira is Vice Rector at Nova University, Director of the Materials Research Center (CENIMAT) and the integrated Associate Laboratory i3N, the Institute of Nanostructures, Nanomodeling and Nanofabrication. Elvira Fortunato has been awarded with two Advanced Grants from ERC in the total amount of 5.75 M. She is an elected member of: Academy of Engineering; European Academy of Sciences; Lisbon Academy of Sciences and Academia Europaea. Former Chief Scientific Advisor of the European Commission, between 2016 and 2020.

Coordi- nation



Antonio Grilo

Antonio Grilo is an Associated Professor with Habilitation at NOVA School of Science and Technology, Universidade NOVA de Lisboa. He is currently the Head of Department of Mechanical and Industrial Engineering, Director of the research center UNIDEMI, Director of the PhD Program in Industrial Engineering, and President of Madan Parque.

Program

Day One

Innovation by Technology – how technology is (always) disrupting industries

Prof António Grilo

The Nano Revolution – from materials to manufacturing

Prof Elvira Fortunato

Clean and Intelligent Energy from the Sun – new forms of production, storage and application

Prof Manuel Mendes

Decarbonizing the Economy – from green technologies to capturing CO2

Prof Julia Seixas

Green Chemistry – for a circular economy

Prof João Paulo Crespo

Visit to NOVA LABs: CENIMAT / CEMOP + CENSE + LAQV

Day Two

The Artificial Intelligence Imperative – from data to algorithms

Prof José Alferes

IoT and 5G – the sensing economy and society

Prof Ricardo Gonçalves

Beyond Cryptocurrency – blockchain everywhere

Prof Aneesh Zutshi

The New Robots – collaboration, precision and empathy

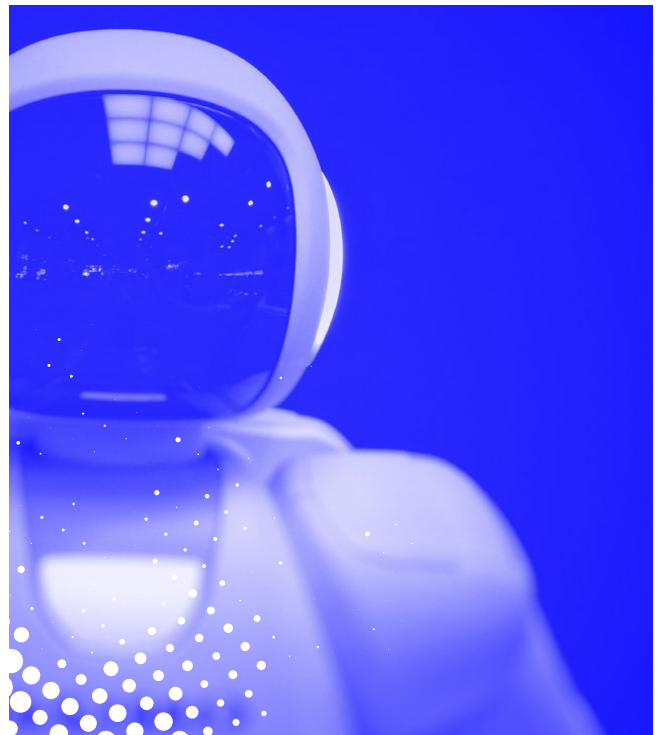
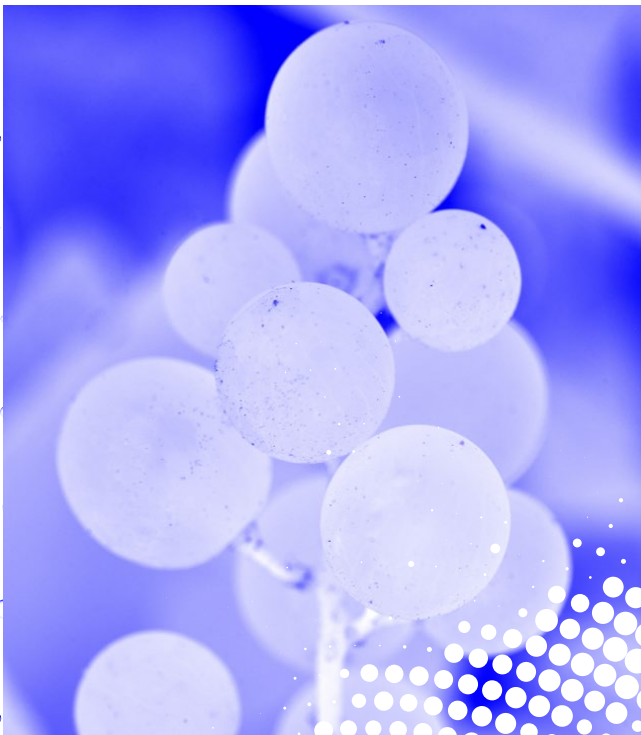
Prof José Barata

3D Printing – from bones to aeronautics

Exploring the genome – adjusting life

Prof Telmo Santos

Visit to NOVA LABs: NOVA LINKS + CTS + UNIDEMI



Day Three

**Autonomous Mobility – UAV, Vehicles,
Engineering biology – creating solutions
Shipping to Humanity**
Prof António Câmara

**New Forms of Vision : augmented, virtual
Recognition**
Prof Nuno Correia

**Quantum Computing: making possible
what was once thought as impossible**
Prof José Paulo Santos

**Engineering biology - creating solutions
to Humanity**
Prof Cecília Roque

Exploring the genome - adjusting life
Prof Pedro Viana Batista

**Tissue Engineering – one step closer to
regenerative medicine**
Prof Jorge Carvalho Silva

Wrap-up: Converging technologies
Prof Elvira Fortunato & Prof Antonio Grilo

Visit to NOVA LABs: UCIBIO + LIBPhys

Topics of lectures

- What is the technology and its characterisation
- How the technology is different from existing technologies
- The level of maturity of the technology
- Examples of potential/real applications in various economic domains
- How it can impact existing business
- Examples of Startups/Scale ups/Corporations that are applying the technology

In each session Q&A is strongly encouraged





ABOUT NOVA School of Science and Technology

Founded in 1977, the NOVA School of Science and Technology (FCT NOVA) is one of the most prestigious Portuguese and European engineering and science public schools.



FCT NOVA is an institution of restless learning. An institution of powerful connection. An institution that always strives for more.

We have strong tradition of working in innovative areas. Being a higher education international institution, our scientific research and quality teaching are well recognised, which ensures a high level of professional success for its students and researchers.

We host 16 research centres across various research areas, particularly in Digital Innovation & Big Data, Biomedicine & Bio-medical Devices, Circular Economy & Sustainability, Manufacturing & Automation, Nano & Smart Materials, Security & Defence Technologies.

FCT NOVA has published about 12 thousand papers indexed in Scopus and Web of Science, in top journals and conferences with high impact.

In our genes we have a drive to enhance the technologies supported by science; we have a unique profile in terms of research path.

This means that NOVA School of Science and Technology is well prepared to address the industrial and society needs to respond to current challenges, which we are always committed to addressing.

More than 30.000 students,
alumni and professors make up an ecosystem that is rich
in vision and ideas.

Important facts:

+ 7500 students **+ 420 faculty**

+ 525 researchers

+ 90 programs
(including BSc, Master, PhD
and Executive Programs)

#1

in Portugal

in Grants awarded by the
European Research
Council, with a total
of **9 Grants**

TOP 9

in Europe

NOVA was ranked in the
top 9 in Europe in the QS
World University Rankings
2021 among universities
founded less than
50 years ago

22

researchers

names from FCT NOVA
among **World's Top 2%**
in 2020, according to the
prestigious Ranking from
Stanford University,
in a pool of more than
159.000 names

#1

in Portugal

in Research Excellence
recognised by the Foundation
for Science and Technology,
with a total of **9 research
centers** with Outstanding
grade and **5 centers** with
Very Good grade

#1

in Portugal

in Horizon 2020 projects,
with a total of **109
projects between
2014 - 2020**



European Research Council
Established by the European Commission



Co-funded by the Horizon 2020 programme
of the European Union

Executive Education

Other useful informa- tion

Fees:
3.400€*

(Special discounts for alumni and companies
with 2 or more candidates)

Format:
on-campus

Dates:
**20, 21 & 22
October**

**For more
information:**



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