



NEW curricula and Industry 4.0 – The College of applied technical science

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HE System in Republic of Serbia

- History
- Bologna process
- Art of state
- NQF / EQF
- Perspective of development



City of Nis

- **Positon**
- **History**
- **Industrial background**
- **Nis and Industry 4.0**
 - **Government activities -New companies in the last 5 year 10.000 employees**
 - **The Forum of Advanced Technologies 2016-2019 EXPO**
 - **The Scientific technical park**
 - **Software companies**
 - **New investments in different areas**
 - **.....**




The college of applied technical sciences

- 1976
- Reform processes
- Bologna
- Resources
- International cooperation
- The College of applied technical sciences vs. labor market



TECHNOLOGY OF INDUSTRY 4.0 AND CURRICULA OF COLLEGE OF APPLIED TECHNICAL SCIENCES NIS

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- The header features a stylized human figure in the center, surrounded by various technical and scientific icons. On the left, there's a circular icon with a blue and white cross-like pattern. To the right of the figure, there are several circular icons with concentric rings and a central gear-like element. The background is dark blue with white lines connecting the icons, suggesting a network or system.
- Industry engineering
 - Environmental protection
 - Computer sciences
 - Communication technologies
 - Road traffic engineering
 - Civil engineering

CURRICULA

Bs

Ms.

- Multimedia communication
- Waste management

The header features a collage of icons representing Industry 4.0: a blue circular icon with a network of four nodes, a human head profile with red gears inside, and several concentric white circles on a dark background, all interconnected by thin white lines.

Elements of Industry 4.0

- Real time data processing
- Cloud computing
- Autonomous systems and vehicles
- M2M
- IOT, 3D,
- DLT technologies

COMPUTER SCIENCES

Communication
technologies



WASTE MANAGEMENT

INDUSTRIAL
ENGINEERING



MULTIMEDIA



CIVIL
ENGINEERING

Enviromental
protection



ROAD TRAFFIC
ENGINEERING



COMPUTER SCIENCES

Communication
technologies



WASTE MANAGEMENT

INDUSTRIAL
ENGINEERING



MULTIMEDIA



CIVIL
ENGINEERING

ROAD TRAFFIC
ENGINEERING



real time
data
processing



Enviromental
protection

•autonomous systems and vehicles

Communication
technologies



INDUSTRIAL
ENGINEERING



ROAD TRAFFIC
ENGINEERING



CIVIL
ENGINEERING



Enviromental
protection

Computer sciences

Communication
technologies

INDUSTRIAL
ENGINEERING

M2M

Enviromental
protection



COMPUTER SCIENCES

Communication
technologies



INDUSTRIAL
ENGINEERING



ROAD TRAFFIC
ENGINEERING



Enviromental
protection

COMPUTER SCIENCES

Communication
technologies



WASTE MANAGEMENT

INDUSTRIAL
ENGINEERING



3D
LDT



ROAD TRAFFIC
ENGINEERING



CIVIL
ENGINEERING

Enviromental
protection



COMPUTER SCIENCES

Communication
technologies



WASTE MANAGEMENT

INDUSTRIAL
ENGINEERING

SOFT SKILLS REQUIREMENTS FOR
INDUSTRY 4.0 IN OUR CURRICULA

Learning
for
work

ROAD TRAFFIC
ENGINEERING



CIVIL
ENGINEERING

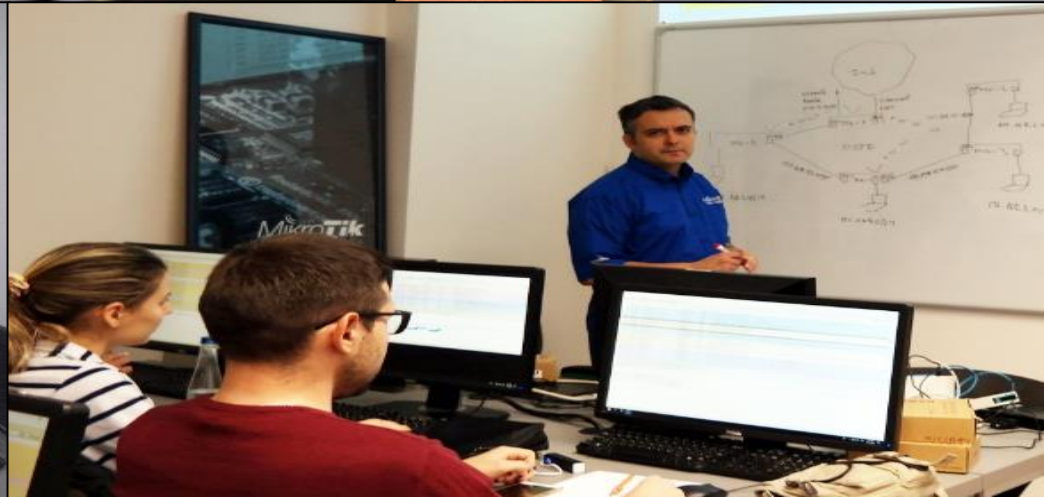
Enviromental
protection





Instead conclusion







Laboratory for environmental protection



First person view racing team



The new scientific technologies park in City of Nis February 2020





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THANK YOU
VIELEN DANKE

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