



## **Advice laptop for Automotive, Electrical & Electronic Engineering, Mechatronics and Mechanical Engineering students**

Laptop computer specifications :

### **Hardware:**

- Processor:  
Intel Core i7 (Preferable with 4 cores) or Intel Core i5 (Preferable with 4 cores) or AMD Ryzen 5 or 7.
- Display  
A high resolution display (1920 x 1080 pixels)
- Harddisk  
At least SSD 500 GB.
- Internal Memory (RAM)  
Enough RAM for the operating system to work efficiently with the required applications (8 GB but 16 GB or more is preferable).
- Wifi:  
Wireless internet 802.11g (or preferably 802.11n dual-band 2.4 GHz/5 GHz) WPA-2 compatible.
- Other:  
Webcam and headset.

### **Operating system and software**

- Microsoft Windows 10 (64 Bit)
- Microsoft Office 2016 or Office 365.

Configuration mentioned above is applicable for Automotive Engineering\*, Electrical & Electronic Engineering, Mechanical Engineering\* and Mechatronics.

\*) The Automotive Engineering and Mechanical Engineering courses use the Siemens NX CAD package. To run Siemens NX, an external graphics card is needed with special requirements. Siemens has a list of certified video cards. The officially certified graphics cards are relatively expensive, but it is also possible to use a gaming graphics card, such as the NVIDIA GTX 1050 /1060 or MX series or newer.

If you choose another graphics card, seek advice from your study programme before purchasing.

A standard graphics card is sufficient for the Electrical Engineering training because this training does not use software that imposes special requirements on the graphics card.

### **For all students:**

Software and licenses made available by Fontys are only available for the Microsoft Windows platform. Apple or Linux computers are not supported.

Solidworks:

<https://www.solidworks.com/support/hardware-certification>