

## COURSE PLAN

### COURSE 1

Automation and Mechatronic Systems Technician  
LOCATED IN PADOVA AND VICENZA

### COURSE 2

Mechanical Products and Process Innovation  
Technician  
LOCATED IN TREVISO

## FINAL EXAMINATIONS

Final examinations set, marked and evaluated by  
a State Examination Board granting an official  
**BACHELOR'S DEGREE** in **TECHNICAL EDUCATION**

Due to the limited number of students accepted  
to attend the courses (24+24+24 participants),  
applicants will be selected according to the result  
of an **ADMISSION TEST**, which will be taken at the  
ITS school building, in Vicenza, via Legione Gallieno,  
52, on 16<sup>th</sup> and 17<sup>th</sup> July 2015. The Admission test  
consists in written papers dealing with basic  
elements of English, I.T., Technical Studies, and  
an oral interview.

For further information:

[www.itsmeccatronico.it](http://www.itsmeccatronico.it)

[info@itsmeccatronico.it](mailto:info@itsmeccatronico.it)

Telephone: +39 338 5251343

Applications must be submitted online through the  
ITS website between April 2<sup>nd</sup> 2015 and July 13<sup>th</sup> 2015.

## FOUNDING MEMBERS

ITIS "A. Rossi"  
Vicenza

ITIS "F. Severi"  
Padova

IPSIA "G. Galilei"  
Castelfranco

Province di Vicenza, Padova e Treviso

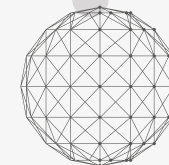
Università degli Studi di Padova

Confindustria Vicenza

E.N.G.I.M. Veneto

Carel Industries S.p.A.  
Brugine (Pd)

*ITS Courses are financed by MIUR and Regione  
Veneto*



**ITS meccatronico**  
istituto tecnico superiore



# 2015\_2017 ITS COURSES

· AUTOMATION AND MECHATRONIC  
SYSTEMS TECHNICIAN **LOCATED**  
IN PADOVA AND VICENZA

· MECHANICAL PRODUCTS  
AND PROCESS INNOVATION  
TECHNICIAN **LOCATED** IN TREVISO



**ITS meccatronico**  
istituto tecnico superiore

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Fondazione ITS Meccatronico  
Via Legione Gallieno, 52  
36100 Vicenza

 **REGIONE DEL VENETO**



Ministero  
dell'Istruzione  
dell'Università  
e Ricerca



## JOB PROFILE 1

The **Automation and Mechatronic Systems Technician** operates for solutions applied to build, integrate and control machinery and automatic systems intended for the most diverse types of production. This professional role uses devices which interface the machines with the programmable apparatus which controls them; he operates to program, test and put the machines into operation while recording the solutions applied. He also manages command, control and adjustment systems. Besides interacting and cooperating with the technological framework set up for the creation, production and maintenance of the devices for which his/her assistance is needed, the Automation and Mechatronic Systems Technician also oversees and takes care of the economic, regulatory and safety matters.

### AT THE END OF THE TWO-YEAR COURSE, THE GRADUATE CAN

1. Design mechatronic systems
2. Build and install mechatronic systems
3. Operate mechatronic systems inside the plant
4. Program and manage the productive maintenance of mechatronic systems

## JOB PROFILE 2

The **Mechanical Products and Process Innovation Technician** operates in design and industrialization, also in reference to the use of materials. This professional role combines several technologies, such as Mechanics and Electronics and is engaged in construction activities, testing and documentation of automatic systems/processes. Against this background the Mechanical Products and Process Innovation Technician applies command, control and adjustment systems as well as testing, activation and failure prevention procedures. Planning and overseeing maintenance in the after-sale phase, is also a feature of this professional role, besides interacting and cooperating with the technological framework in which his assistance is needed.

### AT THE END OF THE TWO-YEAR COURSE, THE GRADUATE CAN

1. Develop and implement design, prototypes and industrialization strategies
2. Select proper materials, appropriate processing techniques and treatments
3. Choose suitable machinery and processing technologies
4. Manage post-sale and maintenance needs

### NUMBER OF PARTICIPANTS

72 (24 + 24 + 24) PARTICIPANTS divided into three courses. Access requirements: Secondary School Diploma and you must be currently unemployed.

### ENROLMENT FEE AND SCHOLARSHIPS

- Enrolment fee required for attendance
- Scholarships available for best students
- Fee reduction or exemption for low-income families.

### LENGTH OF COURSES

4 SEMESTERS, 500 hours each, for a total amount of 2000 hours covering two years. 50% of the time for class lectures, workshops, educational outings and team-working.

### IN-FIRM PROJECT WORK

900 hours in specialized firms combined with class activities and lab tasks. R&D projects developed within the firm activity

### FULL-COURSE STUDY TIME

#### 1<sup>ST</sup> YEAR

- 1<sup>ST</sup> semester: September 2015 to February 2016
- 2<sup>ND</sup> semester: March 2016 to June 2016

#### 2<sup>ND</sup> YEAR

- 1<sup>ST</sup> semester: September 2016 to February 2017
- 2<sup>ND</sup> semester: March 2017 to June 2017

Courses are suspended during summer break (July and August) and Christmas holidays.

### ADMISSION

Students will be selected according to the results of an **ADMISSION TEST** to be taken on 16th -17th July 2015, consisting in written papers regarding English, I.T., Technical Studies, and an oral interview.

### ATTENDANCE

5 days a week (Monday to Friday), 8 hours a day