

I.S.I.S. “A. Malignani”

Scientific and technical courses

By 2 C LSA:

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POF

Basic principles:

- Equality and impartiality;
- Right of choice and duty of attendance;
- Welcome and integration;
- Participation and dialogue;
- Transparency and efficiency;
- Innovation and new technologies;
- Development of students' different personalities.

POF: agreement of corresponsability

The undersigned Class teachers _____ are committed to:

- promote respect and acceptance among students;
- encourage them to be active and aware;
- promote personal learning styles;
- promote the idea that being different is something acceptable;
- tolerate imperfection;
- encourage open-mindedness and self-confidence;
- provide basic information on safe behavior at school and in the workplace.

(Date and signature of the President of the Class Board)

The undersigned student's parent _____ is committed to:

- Guarantee school attendance of their children;
- Inform teachers of any relevant problem/difficulty of their children;
- Pass on to their children the value of homework;
- consider frustration and failure as part of the learning process;
- monitor and control conduct and profit of their children;
- Supervise for a reasonable use of PCs, Mobiles and the Internet

(Date and signature of parents or guardian operators)

The undersigned student _____ is committed to:

- Act as member of a community of study, work and exchange ideas;
- respect and accept others, their ideas, their dignity ;
- know and respect the rules (Regulation of institution);
- have and carry the learning tools ;
- follow the lessons in an active and constructive way;
- respect deadlines for homework;
- implement safe behavior at school and in the workplace.

(Date and signature of the student)

Technical courses

- Chemistry, materials and biotechnologies
- Construction, environment and territory
- Electronics, electrotechnics and automation
- Computer science and telecommunications
- Mechanical, mechatronics and energy
- Transport and logistics
- High school of applied sciences

The First two years of the technical institute are the same for every technical course

Subjects	I	II
Religion	1	1
Italian	4	4
English	3	3
History	2	2
Maths	4	4
Law and economics	2	2
Earth sciences and biology	2	2
Physics and laboratory	3	2
Chemistry and laboratory	3	3
Technologies and techniques of graphical representation	3	3
Information technologies	3	-
Applied science and technology	-	3
P.E. physical education	2	2
Hours per week	32	32

Transport and logistics: students learn to design and repair planes.

Subjects	III	IV	V
Italian	4	4	4
English	3	3	3
History	2	2	2
Maths	4	4	3
Law and economics	2	2	2
Religion	1	1	1
Mechanical machinery and propulsion systems	5	5	8
Electrical, electronics and automation	3	3	4
Logistics	3	3	-
P.E.	2	2	2
Hours per week	32	32	32

Computer science and telecommunications: students learn to process information with the aid of Web technologies, to design and maintain sophisticated computer systems.

Subjects	III	IV	V
Religion	1	1	1
Italian	4	4	4
English	3	3	3
History	2	2	2
Maths	4	4	3
Systems and networks and laboratory	4	4	4
Technology and design of information systems and telecommunications	3	3	4
Project management, business organization	-	-	3
Computer science	3	3	-
Telecommunications	6	6	6
P.E.	2	2	2
Hours per week	32	32	32

Electronics, electrotechnics and automation: students learn about electronic systems, electrical machines, electric signals. They can design microprocessors, electronic devices, energy-saving apparatus.

Subjects	III	IV	V
Religion	1	1	1
Italian	4	4	4
English	3	3	3
History	2	2	2
Maths	4	4	3
Technology and design of electrical and electronic systems	5	5	6
Electrical and electronics	7	6	6
Automatic	4	5	5
P.E.	2	2	2
Hours per week	32	32	32

Mechanics, mechatronics and energy: students become experts in the field of materials, in machines used in manufacturing industries, agriculture and transport. They also learn to design, install and manage simple industrial plants.

Subjects	III	IV	V
Religion	1	1	1
Italian	4	4	4
English	3	3	3
History	2	2	2
Maths	4	4	3
Mechanical machines and energy	4	4	4
Systems and automation	4	3	3
Mechanical technologies of process and product	5	5	5
Drawing, designing and industrial organization	3	4	5
P.E.	2	2	2
Hours per week	32	32	32

Construction, environment and territory: students acquire knowledge in the field of capacity building, plant management, topographic survey, the estimate of land and buildings. They also learn to provide appropriate solutions for energy savings.

Subject	III	IV	V
Religion	1	1	1
Italian	4	4	4
English	3	3	3
History	2	2	2
Maths	4	4	3
Construction management and safe work environment	2	2	2
Design, construction and equipment and laboratory	7	6	7
Geopedology, economy and surveying and laboratory	3	4	4
Surveying and laboratory	4	4	4
P.E.	2	2	2
Hours per week	32	32	32

Chemistry, materials and biotechnologies: students become competent in the maintenance of chemical plants, in the control of liquid waste, in checking the equipment of laboratory analysis.

Subjects	III	IV	V
Italian	4	4	4
English	3	3	3
History	2	2	2
Maths	4	4	3
P.E.	2	2	2
Religion	1	1	1

Study address chemistry and materials

Analytical and instrumental chemistry	7	6	8
Organic chemistry and biochemistry	5	5	3
Industrial chemical technologies	4	5	6

Study address biotechnologies

Analytical and instrumental chemistry	4	4	4
Organic chemistry and Biochemistry	4	4	4
Biology, microbiology and environmental control technologies	6	6	6
Environmental physics	2	2	3
Hours per week	32	32	32