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9:1 Student-teacher ratio

Average class of 21

Number of Students Enrolled

Total Enrollment (Current): 486
Vo-Tech Education: 339
Undergraduate Degree: 147

94% of faculty holds advanced degrees

45% hold Ph.D Degrees
49% hold Master's Degrees

Instituto Federal de Educação, Ciência e Tecnologia Catarinense

*Federal Institute of Education, Science,
and Technology Catarinense*



SCHOOL PROFILE

The Federal Institute Catarinense (IFC) is a Brazilian institution of higher education that integrates the Federal Network of Vocational, Scientific and Technological Education Institutions, established by law, and guided by the Brazilian Ministry of Education since 2008. It offers public, tuition-free education at a high level of excellence.

IFC - Campus Luzerna is one of the key campuses located in the mid-western region of Santa Catarina state. It has been serving students from various surrounding municipalities since its federalization and establishment. Nowadays, the campus offers vocational and technical courses integrated into the high school curriculum in the areas of Mechanics, Industrial Automation, and Occupational Safety; and undergraduate courses, including Bachelor of Control and Automation Engineering and Bachelor of Mechanical Engineering.

OUR MISSION

As a federally funded institution, we are committed to providing professional and technological education through the integration of Teaching, Research, and Outreach, fostering sustainable development and the formation of inclusive, well-rounded, and socially responsible citizens.

GRADING SYSTEM

The student's progress is evaluated in diverse learning situations, considering their abilities and attitudes. The following data represents the cumulative GPA of students who completed their programs in 2025:

	0-10 average	GPA (0-4)
Industrial Automation (Vo-Tech High School)	8.25	3.298
Mechanical Technology (Vo-Tech High School)	7.82	3.126
Occupational Safety (Vo-Tech High School)	8.71	3.482



CURRICULUM: VOCATIONAL HIGH SCHOOL ACADEMIC PROGRAMS

Students at IFC - Campus Luzerna undertake a dual-enrollment curriculum, completing the mandatory national core classes alongside integrated high-level technical subjects. Admission to these programs is determined by a competitive entrance examination.

Subject	Total workload
Arts	150h
Biology	180h
Chemistry	60h
English	120h
Geography	150h
History	150h
Portuguese	210h
Mathematics	240h
Physical Education	60h
Physics	180h
Philosophy & Sociology	240h
Informatics	60h
Spanish	120h
Minimum workload	3300h

Industrial Automation: Technical Drawing, Computer Modeling, Analysis of Electrical Circuits, Digital systems, Embedded Systems, Instrumentation and Process Control.

Mechanical Technology: Modeling, Metrology, Mechanical Manufacturing, Science of Materials, Machine Hydropneumatics, Welding Electricity and Facilities.

Occupational Safety: Risk Prevention and Control, Workplace Hygiene, Technology and Emergency Response, Health Promotion and Prevention, Applied Labor Legislation, Applied Statistics, Technical Drawing.

The curriculum follows the guidelines of the Brazilian Ministry of Education and the Secretariat of Professional and Technological Education (SETEC). The **academic load** is significantly* more demanding than a standard high school diploma:

Industrial Automation: 3,360 total contact hours
 Mechanical Technology: 3,390 total contact hours
 Occupational Safety: 3,300 total contact hours
**in comparison to a standard High School: 3,000 hours*

Academic Emphasis:

Industrial Automation and Mechanical Technology: Curricular emphasis on Physics, Advanced Mathematics, and College-level Engineering fundamentals (such as Solid Mechanics, Robotics, and Control Systems).

Occupational Safety: Curricular emphasis on Applied Biology, Environmental Sciences, and Occupational Health Legislation, with a focus on risk assessment and prevention.

Graduation Requirements: To graduate, students must attend and successfully pass all classes within their respective program's total hours over three years.

Advanced Placement (AP) and Honors: IFC - Campus Luzerna does not offer AP or Honors classes. Instead, the entire curriculum is delivered at an honors-equivalent level, as the technical subjects are comparable to early college-level engineering and safety coursework.