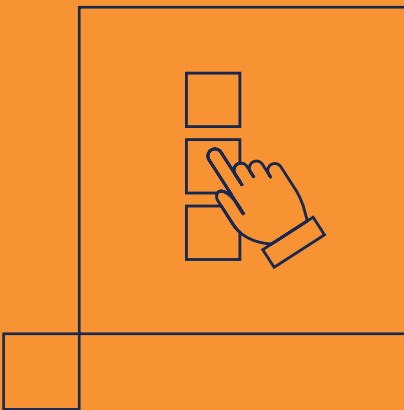




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CONTROL AND AUTOMATION ENGINEERING SÃO CAETANO DO SUL

AUTO MATION





WHAT DOES A CONTROL AND AUTOMATION ENGINEER DO?

Control and automation engineering encompasses academic knowledge of Mechanical Engineering, Electronics and Computer Science. The synergic integration of these fields prepares students to develop sophisticated systems, using new technologies in process control, machine development and automated systems.

Control and automation engineers can work with the following:

- Smart machines and devices;
- Robotics, autonomous systems;
- Integration of automated systems, manufacturing automation, building automation and process control;
- Management of automated systems and handling of industrial robots;
- Commercial automation, designing equipment that will be used in commercial buildings and homes;
- Health Care and Biotechnology;

THE JOB MARKET

Because of their versatility, Control and Automation engineers are highly sought after, as companies face a constant need to upgrade and control their processes in line with new technologies.



AUTO MATION

PROGRAM LENGTH:
DAYTIME CLASSES: 5 YEARS.
EVENING CLASSES: 5 AND 6 YEARS

*** TOTAL CLASSROOM HOURS IS THE
SAME FOR BOTH PERIODS**

LOCATION:
SÃO CAETANO DO SUL CAMPUS



THE CONTROL AND AUTOMATION ENGINEERING PROGRAM AT IMT

The Control and Automation Engineering Program at IMT prepares students to multifunctional roles and activities, such as using machines, applying knowledge learned into Manufacturing, Electronic Engineering and computer science processes, as well as to process control and industrial automation.

IMT Control and Automation Engineering students gain in-depth knowledge in Mechanics, Electronics and Computing Science to work with the most modern technologies while integrating aspects from these different fields. Graduates can work in several different areas, including Manufacturing Automation, Robotics, Smart Machines and Devices, Automated System Integration, Health Care and Biotechnology, Building Automation and Process Control. t

IMT UNDERGRADUATE STUDENTS OF ALL ENGINEERING PROGRAMS PURSUE THE SAME COURSE PATH DURING THEIR FIRST YEAR OF STUDY.

WHEN PROGRESSING TO THEIR SECOND YEAR, STUDENTS CAN CHOOSE THEIR MAJOR.

THE PROGRAM OFFERS:

- A solid technical education based on experimental practice, allowing students to absorb and develop new technologies;
- The best laboratory infrastructure in Brazil, with state-of-the-art equipment and software, in line with industry standards;
- Development and analysis of Control and Automation Engineering projects, using computer and lab simulations and studies of real-life situations in the field;
- Undergraduate research;
- Differentiated curriculum that allows students to develop new skills: communication, collaboration, creativity, innovation, critical thinking, problem solving, planning and management, diversity, and much more;
- Market-focused education;
- Integration with the Research Center, which offers opportunities for internships and jobs in companies from several industries;
- Specialized laboratories.





AWARDS AND ACCREDITATIONS

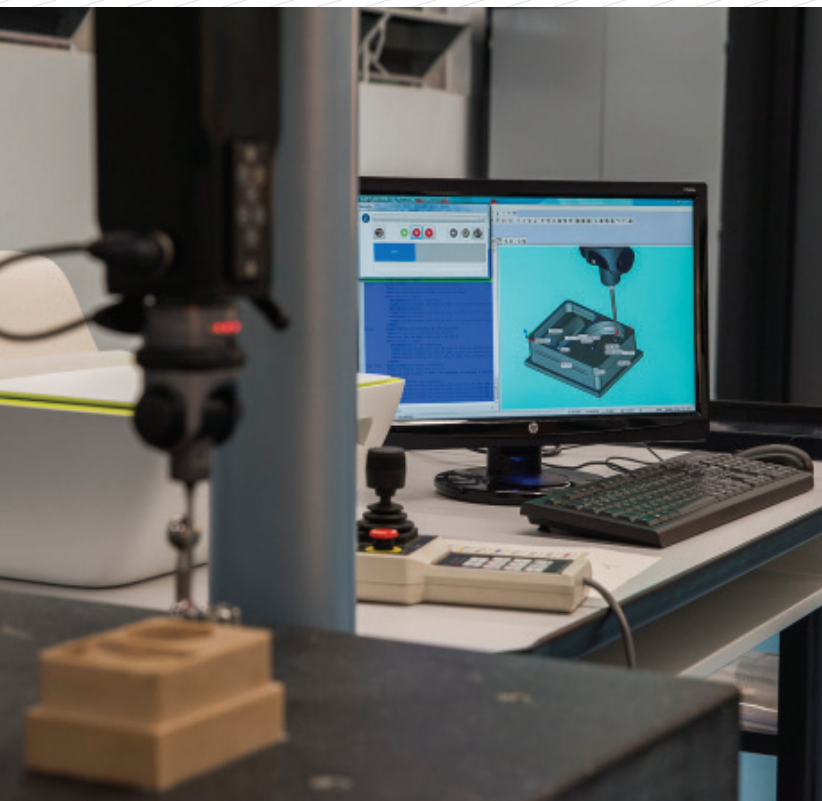
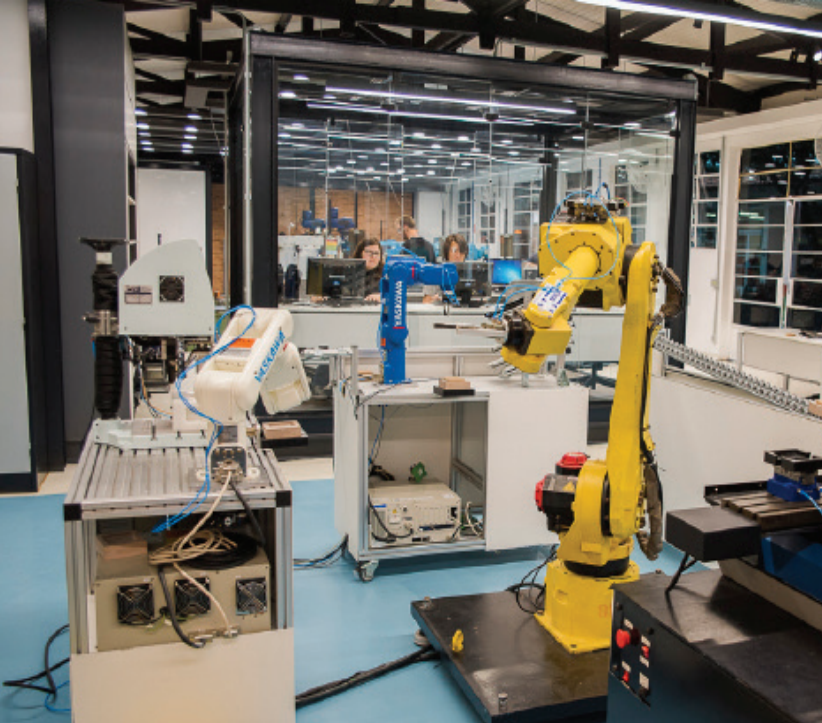
- 4 stars in Guia do Estudante;
- Score of 4 (out of 5) on the National Student Performance Test (Enade);
- MERCOSUR University Course Accreditation (ARCU-SUL System);
- Partnerships with large corporations: Globo (Broadcasting and Entertainment), Vivo (Telecomm) and Mitsubishi.
- Student teams have won numerous academic competitions: Baja SAE, Fórmula SAE, SAE Aerodesign, the Energy Efficiency Collegiate Marathon and other various Robotics Competitions.

SPECIAL PROJECTS AND ACTIVITIES

In addition to conventional classes, students engage in essentially practical projects and activities in which they must work in groups composed of students enrolled in different programs and program years. There are more than a hundred projects and activities in progress, which take advantage of the excellent infrastructure available at IMT.

ACADEMIC COMPETITIONS

- Aerodesign
- Model Aircraft
- Baja Mauá
- Concreto Mauá
- Gravity Car Race
- Inova Mauá
- Eco Mauá
- Mauá Racing
- Robótica Mauá
- Mauá Júnior - Student-led non-profit strategy consulting firm
- eSports Mauá





PART NER SHIPS

INTERNATIONAL
PARTNERSHIPS

SANDWICH YEAR

Cooperation agreement (with partial or full scholarships available) with several international Higher Education Institutions, where students attend a semester or a year in an institution abroad, earn international experience and may transfer some of their credits back to their program in Brazil.

INTERNATIONAL PARTNERSHIPS AND OPPORTUNITIES



IMT KEY FEATURES



Built on over 130,000 square meters, São Caetano do Sul campus offers some of the best-equipped higher education facilities in the country.



Over 100 laboratories – two labs per conventional classroom –, including the brand-new Fab Lab.



Comfort and safety – the campus has several cafes, snack bars and different social areas, as well as free parking for approximately 1,400 vehicles.



Several exchange programs offered in prestigious international institutions: dual degree agreements, sandwich and study abroad programs. Students can apply for scholarships, and transfer some of their credits back to IMT.



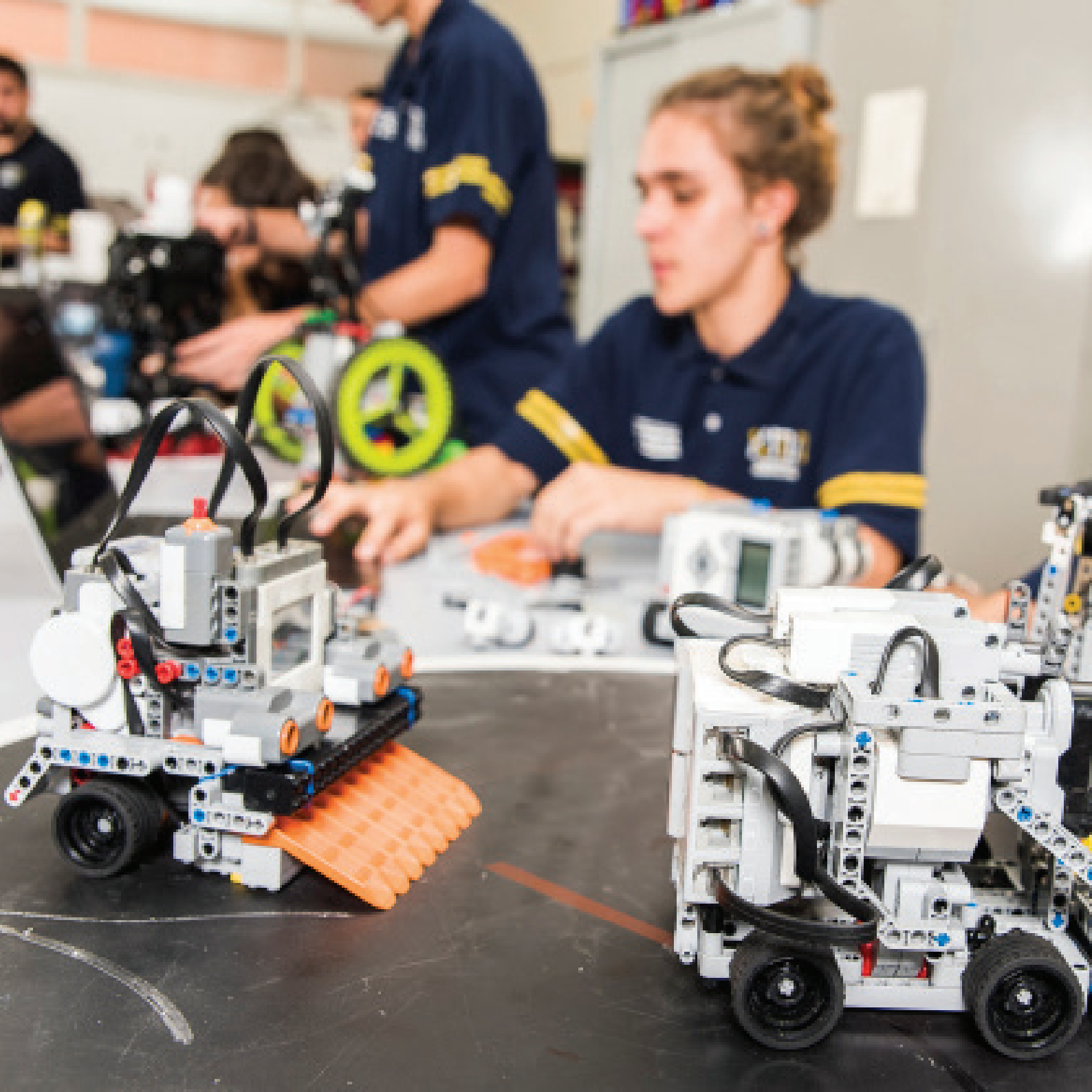
Distinguished academic staff that blends subject-matter experts with extensive industry experience, and professors holding Master's and PhDs from some of the best universities in Brazil and abroad.



A new and innovative educational approach that requires active learning experiences – from outside the classroom – for the purpose of curriculum integration: academic competition, partnerships with the business community, undergraduate research, teaching assistantships, and much more.



An academic environment that includes close cooperation with industry technology development projects involving both the faculty and student bodies.



IMT KEY FEATURES



Activities focused on developing the social and emotional skills students need to succeed in their professional careers.



Special support to help students transition to academic life: assistance available at non-classroom hours, access to vast digital content (video lessons and exercises), tutoring.



Curriculum flexibility, allowing students to choose complementary graduation projects and activities, as well as elective courses.



Minor programs, which provide students with an undergraduate specialization that is both complementary to and distinct from their main major, in areas such as Project Management, Business Management, Design and Innovation, Energy and Sustainability (programs revised on an annual basis).



A teaching philosophy focused on preparing students for innovation and entrepreneurship, developing projects that integrate Management, Design and Engineering.



Partnerships with the business community and mentoring by experienced executives to assist students with their term papers, adding a strong business focus, and connect their research to the marketplace issues and routine.

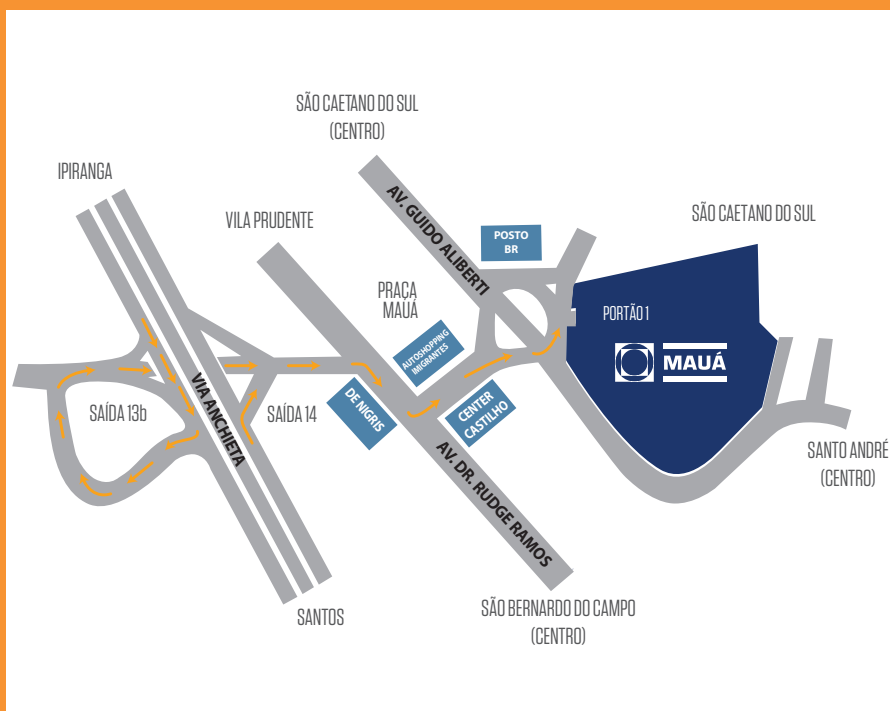


Undergraduate research opportunities offered in several IMT research groups that make significant contributions to scientific and technological advancement.



SÃO CAETANO DO SUL CAMPUS

CAMPUS DIRECTION MAPS



Praça Mauá, 1
São Caetano do Sul, SP
Postal code (CEP) 09580-900

0800 019 3100



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