

INSTITUTO MAUÁ DE TECNOLOGIA



MAUÁ

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CIVIL ENGINEERING SÃO CAETANO DO SUL

CIVIL



WHAT DOES A CIVIL ENGINEER DO?

Civil engineers must be involved in the planning, design, implementation and maintenance steps of the infrastructure and construction process, aiming at both improving the quality of life in civil society, and pursuing environmental sustainability.

Civil engineers are qualified to work in the following areas:

- Planning, execution and management of civil construction in general, including buildings, bridges, tunnels, factories, highways, and many more;
- Projects with frames made of concrete, steel, wood and high-performance materials;
- Geotechnical projects, calculating walls, tunnels, foundations;
- Sanitation and waterworks, as well as environmental preservation projects;
- Transportation planning, including railways, highways, subways, ports and airports, as well as traffic control;
- Research aimed at developing new materials and methods that will promote the growth of civil engineering.

Civil Engineer vs. Architect

Civil engineers and architects perform complementary activities, especially for new constructions. While the architect is mostly involved in the project conceptualization stage, concerned with the aesthetics and the distribution of space, the engineer is responsible for planning and executing the job task, in addition to making the necessary calculations for the structure and controlling the technology of the materials used.

THE JOB MARKET

The job market for civil engineers is very broad. Job requirements include a degree from a renowned university and proof of scientific and technological knowledge acquired.



CIVIL

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 CIVIL ENGINEERING PROGRAM AT IMT

The Civil Engineering Program at IMT offers a comprehensive and diversified education, preparing professionals to work in different fields such as construction of residential and commercial properties, bridges, railways, airports or development and planning of basic sanitation systems for cities. The program also offers courses with an entrepreneurial focus, preparing students to start their own businesses after graduation.

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;
- Development and analysis of Civil Engineering projects, using computer and lab simulations and studies of real-life situations in the field;
- Undergraduate research;
- Development of critical and creative thinking aimed at problem solving;
- Systemic view;
- Integration with Research Center;
- 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 the industry: Ariston and Diálogo Engenharia e Construção;
- Academic Competitions activities that provide practical knowledge to students, such as APO, COCAR and CONCREBOL;
- Our student teams have won awards at the Brazilian Concrete Congress and the SAMPE BRASIL Composite Challenge.

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-ed 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.

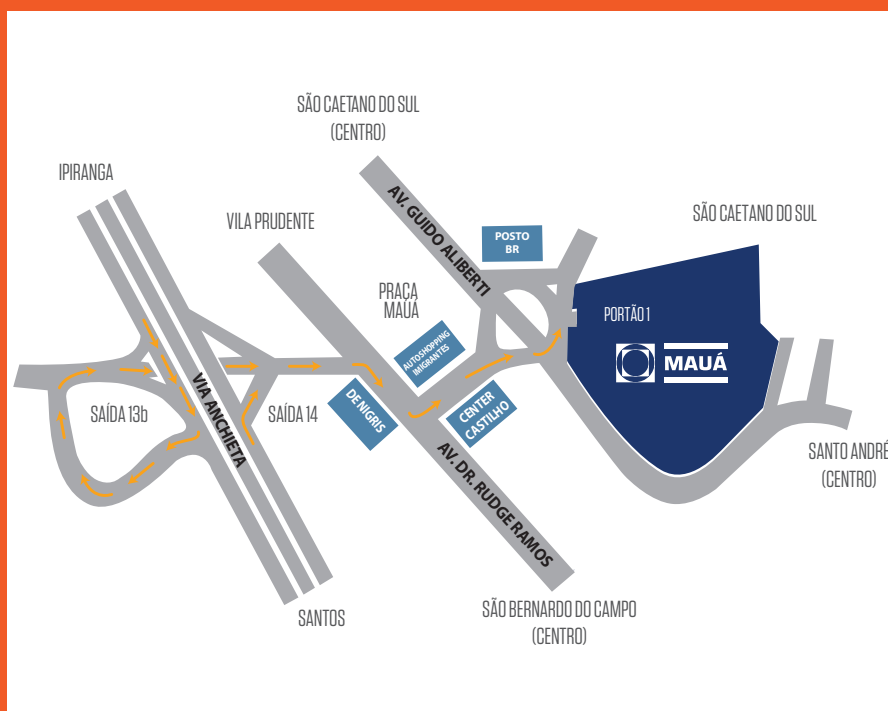


Undergraduate research opportunities offered in several IMT research groups that make significant contributions to scientific and technological advancement.



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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