

INSTITUTO MAUÁ DE TECNOLOGIA

Instituto Mauá de Tecnologia, IMT, is a private, non-profit organization. Located in the São Paulo campus, its main objective is to promote technical-scientific education, technological research and development aiming to provide highly qualified human resources to contribute to the socioeconomic development of Brazil.

IMT was founded on December 11, 1961 and has established and maintains the following units:

- *Centro Universitário*
 - Mauá Business School
 - Product Design Program
 - Mauá College of Engineering
 - Higher Education Certificate Program
 - Continuous Education Center
 - Master in Engineering Program
- Technical Services and Tests Center

The headquarters of the *Centro Universitário* are located at the IMT campus in São Caetano do Sul, at Praça Mauá, 1, with a constructed area of 130,000 m², 12 km from São Paulo city center. The Engineering Programs, the Design program and the Higher Education Certificate Programs are also offered at this campus.

The Mauá Business School and the Continuous Education Center are installed at the IMT campus in São Paulo, at 1071, Rua Pedro de Toledo.

***CENTRO UNIVERSITÁRIO* (*)**

(*) “Centro Universitário” is a denomination of the Brazilian Ministry of Education to identify multicurricular higher level Educational Institutions, involving one or more areas of knowledge, which are characterized by: the excellence of the teaching provided, the qualification of their faculty and the conditions of the academic work offered to the college community, according to the standards established by the Ministry of Education for their accreditation.

Faculty Profile, Training and Education

The IMT *Centro Universitário* has 409 Faculty Members, from which 65% have a PhD degree or a Master degree.

The *Centro Universitário* has agreements with national and international education organizations for the development of scientific and technological research activities and exchange of faculty members and students.

UNDERGRADUATE PROGRAMS

BUSINESS ADMINISTRATION

The Mauá Business School is located at the São Paulo campus, Vila Mariana, in a modern building with a constructed area of 3,300m²

THE BUSINESS ADMINISTRATION PROFESSIONAL

Administrators are professionals prepared to quickly and flexibly establish, develop, enterprise and manage businesses and companies. In order to achieve business goals, administrators' education is focused towards three types of activities: **entrepreneurial, business activities**, when they design and implement their own objectives and businesses; **executive activities** (CEO, director, manager), when they set strategies, tactics and operations to achieve company goals; **consulting activities**, when they provide support to the various areas of the company and introduce new technologies and processes.

THE MAUÁ BUSINESS SCHOOL OF EDUCATION

The Mauá Business School started its activities in 1996 and its program was recognized by the Brazilian Ministry of Education in 1999.

The main goal of the Mauá Business School is to graduate proactive Administrators who are agents of change with systemic thinking and entrepreneurial attitude.

Administrators who graduate from the Mauá Business School are prepared to face challenges and make decisions fast and with a systemic view in the fast-changing environment of today's globalized and interdependent world.

Duration night program – 4 years

Location: São Paulo Campus

PRODUCT DESIGN

In 2007 the IMT *Centro Universitário* started to offer the **Product Design** undergraduate program at the São Caetano do Sul campus. The objective of this program is to prepare professionals with a solid technological and managerial education linked to the skills required to develop products that meet quality requirements regarding functionality, esthetics, ergonomics, durability and after-use disposal.

The program is based on the tripod made up of the following areas: technology (design, materials, manufacturing processes and quality assessment), artistic creation, and humanities (art history and the history of technology, sociology, economics, administration and psychology).

The knowledge acquired in technical courses, such as materials, manufacturing processes, applied mechanics and applied electricity, associated with creation and innovation activities will enable the development of high value products that meet quality and safety requirements.

Product Design students carry out practical work at workshops, studios and laboratories to acquire knowledge of materials and get familiar with 2D, 3D and physical models representation processes, components manufacturing and set assembly.

This education that strongly connects basic knowledge and practice will enable students to guide the development of their program final paper to a wide range of products, such as vehicles and accessories, urban equipment, visual communication and corporate identity, appliances, medical equipment, furniture, packages and innovative products. These activities can be developed involving other program students from the *Centro Universitário*.

Marketing, business administration and specific regulations subjects, such as trademark and patent laws are offered in the last semesters of the **Product Design** program.

Duration: night program – 4 years

Location: São Caetano do Sul Campus

ENGINEERING

Mauá College of Engineering started its activities in 1962. It is recognized as one of the best Schools of Engineering in Brazil, having graduated over 15,000 engineers. It is located at the São Caetano do Sul campus, has a constructed area of 40,000 m², spacious classrooms equipped with modern audio-visual resources, more than 100 laboratories, a large and modern library, a facility for athletic activities with multiple sports courts and a semi-olympic pool, all in a pleasant campus with a lot of green areas and large parking lot. It provides its students with all comfort conditions and meets the teaching-pedagogical objectives of the program.

Mauá College of Engineering provides its students with:

- Invited Conferences ;
- Guided Study;
- Advice on Internships;
- Technology-related Events (Technical visits and Expositions);
- Technical Competitions (SAE Mini Baja, Aero Design, Energy Efficient Vehicle, War of Robots, among others)
- Tutoring and Young Scientist Program;
- Scholarships, Student Loan and Awards.

ENGINEERS IN TODAY'S WORLD

"Engineering is the professional art of organizing and guiding people's work, applying scientific knowledge and sparingly using nature's materials and energies to produce goods and services of interest to the society, meeting their needs and following safety standards." This definition, which was adopted by the Brazilian Federal Council on Engineering, Architecture and Agronomics – CONFEA, in 1993, summarizes the activities carried out by engineers.

Technological development should be sustainable and environment-friendly. Engineers play an important role and therefore their education should go beyond the limits of technique and technology. In addition to talent, creativity and intuition, connected to scientific and technological knowledge, Engineering professionals should have a general culture that enables them to critically assess issues of administrative management and human relations, and a clear view of the social consequences of their work in a globalized world.

CHOOSING THE CAREER

The Engineering program offers the following options:

Food Engineering;
Civil Engineering;
Control and Automation (Mechatronics) Engineering;
Electrical Engineering;
Mechanical Engineering;
Mechanical Production Engineering;
Chemical Engineering.

All freshman students have a common first-year Engineering program. Students choose their career when they enroll for their 2nd year.

Duration: day program – 5 years
 night program – 6 years

Location: São Caetano do Sul campus

HIGHER EDUCATION CERTIFICATE PROGRAMS

In 2005 the *Centro Universitário* started to offer a new opportunity for those seeking professional continuous education: the Education Certificate Program.

These programs were launched based on the results of surveys that showed a need for professionals specialized in certain areas. They are taught at the São Caetano do Sul campus at night by faculty members with wide professional experience.

The holder of a Certificate of Higher Education will have a sound knowledge of the basic concepts of a subject, and will have learned how to take different approaches to solving problems. They will be able to communicate accurately, and will have the qualities needed for employment requiring the exercise of some personal responsibility.

ENVIRONMENTAL MANAGEMENT

The Environmental Management course aims the assessment of industrial and non-industrial processes to reduce pollutant emissions and minimize the resulting environmental impacts. It covers the development of environmental impact studies and reports based on laws, regulations and standards.

Duration: night program – 2 years

Location: São Caetano do Sul Campus

INFORMATION TECHNOLOGY MANAGEMENT

The two-and-a-half-year Information Technology Management course is designed to enable students to understand organization processes, their information requirements for management, decision-making and control. Therefore, students are able to interact with all company areas, including the Information Technology Area, participating in decision-making, setting definitions and later manage the company's information system, be it a public or private company, a retail, manufacturing or services organization.

Duration: night program – two and a half years

Location: São Caetano do Sul Campus

CONTINUING EDUCATION PROGRAM

Extension, Graduate Certificate Courses and MBAs

The post-graduate continuing education courses offered by the *Centro Universitário* at the São Paulo and São Caetano do Sul campus are delivered by faculty members and invited lecturers with a high level of professional and teaching competence, using both theoretical and practical methods in high quality training programs. The post-graduate programs are designed for professionals interested in improving their technical expertise in areas related to their educational and professional background.

São Paulo Campus

Post-Graduate Non-degree Programs (180h)

- Project Management
- Strategic Marketing and Sales Management
- Entrepreneurial Leadership
- Entrepreneurial Logistics

MBA (360h)

- Executive – Administration for Engineers
- TI Executive
- Project Management

São Caetano do Sul Campus

Post-Graduate Non-degree Programs (180h)

- Automation and Industrial Control
- Civil Engineering – Management of Civil Working Areas

MBA and Specialization Degree Programs / (360h)

- Automotive Engineering

- Food Processes Development
- Packaging Engineering
- Engineering and Businesses of Gas and Petroleum
- Environmental Management and Chain Practices

Master Program in Chemical and Biochemical Engineering Processes, in the following areas, directions and research projects:

- Food Engineering
- Biochemical Engineering Processes
- Chemical Engineering Processes

TECHNICAL SERVICES AND TESTS CENTER

The Center was established in 1966 with the purpose of meeting the needs of the industries regarding products and processes. A laboratory infrastructure was put in place in order to make tests and analyses. In a second phase it started providing technological support to companies to improve processes, products and services, a technology development center in several different fields and offering the following services to manufacturing and services companies:

- applied technology research;
- product and process development;
- tests, analyses, expert opinion reports and certification;
- projects, consulting, advisory services and planning;
- specialized training.

The Technical Services and Tests Center has a customer service structure in place through its Technical Divisions established by fields: Food Engineering, Biochemistry, Automation and Control, Electronic, Civil, Mechanical Engineering, Metrology, Microwave Technology, Telecommunications, Engines and Vehicles, Chemistry and Paints, Road Signaling and Safety.

The technical staff at the Center comprises experienced professionals with different degrees, qualified on different areas, and the Center also counts on *Centro Universitário* faculty as experts and consultants. The participation of *Centro Universitário* students in activities at the Research Center provides them with the opportunities to participate in vocational internships.

SÃO CAETANO DO SUL CAMPUS INFRASTRUCTURE

- Library;
- Computational Methods Center;
- Laboratories;
- Internship Coordination;
- Auditoriums;
- Sports and Physical Activities Center;
 - Student Center;
- Students' Get-Together Area
- Sports Association;
- Civil Association of the Students of the Mauá School of Engineering – Mauá Jr.;
- Snack bars and cafeteria;
- Bookstore, stationery store and copying center;
- Parking lot;
- Banks and ATMs.

SÃO PAULO CAMPUS INFRASTRUCTURE

- Department Library (connected to the Central Library);
- IT Laboratories;
- Get-together Area;
- Internship Coordination;
- Cafeteria;
- Copying Center;
- Student Center;
- Mauá Júnior Administration Association – AMJr.