In the first half of the 1940’s, motivated by the first industrial boom in Brazil, Fr. Sabóia created the first brazilian business administration course (ESAN – 1941) and later the Faculty of Industrial Engineering (FEI-1946).
Centro Universitário da FEI (2002)
ESAN (1941) + FEI (1946) + FCI (1999)

Funding institution:
– Fundação Educacional Inaciana Pe. Sabóia de Medeiros
– Ignatian Educational Foundation Fr. Sabóia de Medeiros

Jesuitic institution
Currently the largest engineering institution in Brazil

- 6200 undergraduate engineering students
- 362 lecturers

SBC campus
243,000 m²
7330 undergraduate students
Undergraduate Courses:
- Business Administration
- Computer Science
- Industrial Engineering
- Chemical Engineering
- Textile Engineering
- Civil Engineering
- Automation and Control Engineering
- Electrical Engineering (Computer, Telecommunications)
- Mechanical Engineering (Design & Manufacturing, Automotive)
- Materials Engineering

Graduate Courses:
- Business Administration (Master and PhD)
- Electrical Engineering (Master)
- Mechanical Engineering (Master)
  - Industrial engineering
  - Mobility systems
- Materials and Processes
Materials Engineering Department

1963 Start of Operational Engineering program in Metallurgy

1968 Start of Full Metallurgical Engineering program

2003 End of Metallurgical Engineering and start of Materials Engineering program

2007 Start of graduate program in Mechanical Engineering, with emphasis in Materials and Processes
undergraduate students enrolled: 73
students engaged in internship/research apprenticeship programs: 45
graduate students: 26

Teaching staff: 21
Part-time: 15
Fulltime: 6
(metals: 2, polymers: 2, ceramics: 2)
all lecturing at undergraduate and graduate courses
Undergraduate Program

- processing: 21
- structure: 8
- properties: 3
- performance: 8
- basic sciences, social sciences and business: 35
Materials Engineering Department

Research projects:

Phase transformations of metallic materials.

Researchers:
Prof. Dr. Rodrigo Magnabosco
rodrmagn@fei.edu.br

Prof. Dr. Julio Cesar Dutra
jdu@fei.edu.br

Prof. Daniella Caluscio dos Santos
dcaluscio@fei.edu.br

Prof. Taylor Macintyer Fonseca Jr.
taylor@fei.edu.br

SEM equipped with EDS

XRD for phase identification and residual stress analyses

25 kg capacity induction furnace for developing new alloys.
Mechanical Behavior of Structural Materials

Researchers:
Prof. Dr. Gigliola Salerno
gsalerno@fei.edu.br
Prof. William Naville
wnaville@fei.edu.br
Fracture Mechanics, Fatigue and Structural Integrity

Researcher: Prof. Dr. Gustavo H. B. Donato
gdonato@fei.edu.br
Materials Engineering Department

**Research projects:**

- Synthesis and sintering of nanostructured ceramics
- Heterogeneous catalysts production
- Colloidal routes for processing of particulate systems

**Researchers:**

Prof. Dr. Fernando dos Santos Ortega  
gerortega@fei.edu.br

Prof. Dr. Gilberto José Pereira  
gilbertop@fei.edu.br

Ceramic support coated with catalyst film
Materials Engineering Department

Research projects:

Modification, recycling and processing of polymeric materials

Researchers:
Prof. Dr. Adriana Martinelli Catelli de Souza
amcsouza@fei.edu.br

Prof. Dr. Baltus Cornelius Bonse
prebbonse@fei.edu.br

Prof. Dr. Patricia Schmid Calvão
patycalvao@fei.edu.br

PET/PP blend

Bamboo fiber
Thank you!

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