



**MINISTÉRIO DA EDUCAÇÃO**  
**Fundação Universidade Federal do ABC**

**Reitoria**

Av. dos Estados, 5001 · Bairro Santa Terezinha · Santo André - SP  
CEP 09210-580 · concursos@ufabc.edu.br

**OFFICIAL NOTICE N° 054/2019**

*Opening of public service examination for the position of Adjunct Professor rank A – level I, of the career of higher Education; Area: Engineering; Subareas: Mechanical Sciences, Technology and Gender Studies in Engineering.*

The Rector of Fundação Universidade Federal do ABC (UFABC), exercising the power conferred upon him, following the terms of the correspondent legal basis, the application opening Notice, with the objective of selecting candidates by the means of a public service examination for the position of Professor of higher Education with the following conditions and characteristics:

**1. CONDITIONS AND CHARACTERISTICS:**

**1.1.** Class: Rank A - Level 1 / Work regime: Full-time (40h per week) and Exclusive Dedication / Legal Basis: Laws n° 7.596/1987, 8.112/1990, 9.394/1996, 12.772/2012, 12.863/2013, 12.990/2014 and 13.325/2016, and the Decrees n° 3.298/1999, 6.944/2009 and 7.485/2011 and changes, Interministerial Ordinance n° 399/2016 Ordinance n° 450/2002 / MPOG / Vacancies: 01 (one).

**1.2.** Application Period: 06/01/19 from to 07/30/19;

**1.2.1.** Period for requesting a fee waiver, referring to item 7 of Official Public Notice of General Conditions n° 96/2013: 06/01/19 from to 06/30/19.

**1.3.** Application Fee: R\$ 239,00

**1.3.1.** There will be no refund of the application fee, except in case of cancellation of the examination test.

**1.4.** Remuneration:

Basic Remuneration	R\$ 4.463,93
Compensation by Degree (Doctor's)	R\$ 5.136,99
Starting Remuneration (Doctor)	R\$ 9.600,92

**1.5.** Area: Engineering

**1.5.1.** Sub-areas: Mechanical Sciences, Technology and Gender Studies in Engineering

**2. PROGRAM FOR THE EXAMINATION TESTS**

**2.1.** Science, technology and gender

**2.1.1.** Gender as a research perspective for research and innovation;



Universidade Federal do ABC

- 2.1.2. Epistemological discussions on gender for building technical-scientific knowledge;
- 2.1.3. Gender and technology studies in education in Brazil;
- 2.1.4. Dissemination and diffusion in society of Science and Technology for inclusion.
- 2.2 Mechanics of Solids (Statics, Dynamics and Mechanisms)
  - 2.2.1. Static, internal/ external forces and loadings: diagrams of internal forces, stress fields, equilibrium equations, constitutive equations.
  - 2.2.2. Geometry of the displacement of a deformable body. Deformation field.
  - 2.2.3. Generalized Hooke's Law. Tri-axis states of stress.
  - 2.2.4. Bars, beams and shafts: trusses, simple and compound bending; torsion in symmetrical and asymmetrical axes, torsional centers.
  - 2.2.5. Buckling and elastic and inelastic stability of structures.
  - 2.2.6. Structural project of aerospace elements: designing, simulation and mechanisms.
- 2.3. Technical Design, CAD, CAE and CAM (isometric perspectives, views and computer aided design)
  - 2.3.1. Introduction to technical design - general aspects of descriptive geometry, technical calligraphy, types of lines and design sheets; Standardization in technical design (ISO, ABNT and others);
  - 2.3.2. Orthographic projections and views. Design perspective; Cuts and sections. Scales and dimensioning.
  - 2.3.3. Computer aided design and manufacturing.
- 2.4. Gender specificities in Engineering project management and operations.
  - 2.4.1. Market analysis;
  - 2.4.2. Competitive priorities and operational management;
  - 2.4.3. Positioning, manufacturing and scale strategies.
  - 2.4.4. History of production control and supply chains;
  - 2.4.5. Structure of the production planning;
  - 2.4.6. Production and technology norms.

### 3. SUGGESTED BIBLIOGRAPHY

- ACAR, S., LOPIK, D. (2009). Computational Pregnant Occupant Model, ,Expecting for CrashSimulations. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 223 (7), 12.
- BEER, F. P.; JOHNSTON JUNIOR, R. E.; DEWOLF, John. T. Resistência dos materiais: Mecânica dos materiais. 4 ed. São Paulo: Pearson Makron Books, 2010. xx, 751 .
- BUARQUE, C. Avaliação econômica de projetos. 26a. reimpressão. Rio de Janeiro: Elsevier, 1984.
- DAVIS, Kathy; EVANS, Mary; LOERBER, Judith (eds.): Handbook of Gender and Women's Studies. London (397-414).
- FAULKNER, W. The technology question in feminism: A view from feminist technology studies. Women's Studies International Forum, 24, 79-95, 2001.
- GIESECKE, F.E. et al.; Comunicação gráfica moderna. Porto Alegre: Ed. Bookman, 2002. EARLE, J.H.; Engineering Design Graphics, 11ed. Prentice Hall, 2004.
- HACKETT, Edward J. et al (Eds.). The handbook of science and technology studies. The MIT Press, 2008, 3rd edition.
- HARAWAY, D., "Rethinking Standpoint Epistemology: What is Strong Objectivity". In Feminist Epistemologies, (eds.) Alcoff L., Potter E., Routledge, New York-London, 1993, pp 49- 82.

HIBBELER, R. C.; Estática - Mecânica para engenharia. 5 ed. São Paulo, Pearson, Prentice Hall, 2004.  
HIBBELER, R. C.; Resistência dos Materiais. 5.ed. São Paulo, Pearson, Prentice Hall, 2004.  
JASANOFF, S., et al (Eds.). Handbook of science and technology studies. Sage publications; 1991.  
KELLER, E. F., Reflections on Gender and Science, Yale University Press, New Haven, 1985.  
KERZNER, H.; Gestão de Projetos: as melhores práticas. São Paulo: Bookman, 2002. ISBN: 8536306181.  
PAH, G. e BEITZ, W. "Engineering Design - A Systematic Approach", Springer-Verlag London Limited 2007.  
MEGSON, T. H. G. Aircraft Structures for Engineering Students: Butterworth Heinemann, 1998, 610 p, ISBN 0 340 70588 4.  
RIBEIRO, C.T.; DIAS, J.; SOUZA, L.; KOURY, R. N. N.; PERTENCE, E. M., Desenho técnico moderno, 4ª edição, Rio de Janeiro: LTC, 2006.  
SCHIEBINGER, Londa. Gendered innovations in science and engineering. Stanford: Stanford University Press, 2008.  
VALERIANO, D. L.; Gerência em projetos: pesquisa, desenvolvimento e engenharia. São Paulo: Pearson Makron Books, 2004.  
WAJCMAN, J., Feminism confronts technology. University Park, Pennsylvania: Pennsylvania State University Press, 1991.

#### **4. GENERAL CONDITIONS:**

- 4.1.** It is a constituent part of the current, the UFABC Official Public Notice of General Conditions nº 96/2013, available on: <http://www.ufabc.edu.br/concursos/docentes/inscricoes-abertas>
- 4.2** The candidate, at the time of application to the public service examination, declares to be completely aware and to fully accept the rules and conditions established in this Notice, in the Official Public Notice of General Conditions and in the corresponding relevant law regulations.
- 4.3.** The exams must take place within 12 (twelve) months, after the publication of the “Edital de Homologação das Inscrições” (Official note of the confirmation of the applications).
- 4.4.** The validity duration of the examination will be of 01 (one) year counting from the date of publication of the “Edital de Homologação do Resultado Final do Concurso” (Official note of the final result of the examination), being allowed to be extended by an equal amount.
- 4.5.** And, in order to make it public to the interested parties, DISPATCH the current Notice.

Santo André, 29<sup>th</sup> May 2019.

**Dácio Roberto Matheus**  
Rector