UNIVERSIDADE FEDERAL DO CEARÁ

PPGEE
PROGRAMA DE PÓS-GRADUAÇÃO EM ENGENHARIA ELÉTRICA
UNIVERSIDADE FEDERAL DO CEARÁ

UNIVERSIDADE FEDERAL DO CEARÁ
CENTRO DE TECNOLOGIA
Coordenação do Programa de Pós-Graduação em Engenharia Elétrica

ADITIVO Nº 01 AO EDITAL DE SELEÇÃO PARA ADMISSÃO DE ALUNOS REGULARES DOS CURSOS DE MESTRADO E DOUTORADO – TURMA 2026.2

A Coordenação do Programa de Pós-Graduação em Engenharia Elétrica (PPGEE), do Centro de Tecnologia da Universidade Federal do Ceará (UFC), no uso de suas atribuições, torna público o presente ADITIVO Nº 01 ao Edital de Seleção para Admissão de Alunos Regulares dos Cursos de Mestrado e Doutorado – período letivo 2026.2, alterando os itens 1.1 e 1.3 e incluindo novas áreas temáticas no Anexo I.

1. ALTERAÇÃO DO ITEM 1.1

Onde se lê:

1.1 Ao todo, serão oferecidas 15 (quinze) vagas para o Curso de Mestrado e 4 (quatro) vagas para o Curso de Doutorado, distribuídas nas áreas temáticas propostas neste Edital (Anexo I).

Leia-se:

1.1 Ao todo, serão oferecidas 17 (dezessete) vagas para o Curso de Mestrado e 6 (seis) vagas para o Curso de Doutorado, distribuídas nas áreas temáticas propostas neste Edital (Anexo I).

2. ALTERAÇÃO DO ITEM 1.3

Onde se lê:

1.3 Em conformidade com a Resolução nº 15/CEPE, de 01 de dezembro de 2023, há no presente edital previsão de 5 (cinco) vagas para o Mestrado e 1 (uma) vaga para o Doutorado, destinadas às seguintes categorias de ações afirmativas: pessoas negras (pretas e pardas), indígenas, quilombolas e pessoas com deficiência. As demais vagas, em ambas as modalidades, destinam-se à ampla concorrência.

Leia-se:

1.3 Em conformidade com a Resolução nº 15/CEPE, de 01 de dezembro de 2023, há no presente edital previsão de 6 (seis) vagas para o Mestrado e 2 (duas) vagas para o Doutorado, destinadas às seguintes categorias de ações afirmativas: pessoas negras (pretas e pardas), indígenas, quilombolas e pessoas com deficiência. As demais vagas, em ambas as modalidades, destinam-se à ampla concorrência.

3. INCLUSÃO DE NOVAS ÁREAS TEMÁTICAS NO ANEXO I

Ficam incluídas no Anexo I do Edital as seguintes áreas temáticas:

ÁREA TEMÁTICA 13		
Título	**CONTROLE ROBUSTO E INTELIGENTE APLICADO**	
Vagas	Mestrado: 1	Doutorado: 1
Palavras-chaves	Linear Matrix Inequalities, Robust Model Predictive Control, Switched Control Systems, Fuzzy Control Design, AI control strategies.	
Descrição	This research aims to develop novel control strategies utilizing Robust Predictive Control, (Differential) Linear Matrix Inequalities, and Switched Control, applicable across numerous engineering control applications. Additionally, research involving Artificial Intelligence applied to control strategy design are developed in this field.	
Abstract	Considering technological and theoretical advancements in control studies, applications involving Robust Predictive Control optimized through linear matrix inequalities merit investigation. Within this field, studies using switching-based approaches and control with variant parameters stand out. Additionally, there exist areas of study employing heuristics and Artificial Intelligence to address control problems through techniques based on swarm logic, modeled by neural models, and machine learning. The proposed research aims to develop control techniques encompassing each of the mentioned areas or hybrids, both for theoretical and experimental applications in various electrical engineering fields.	
Referências	FORTES, ELENILSON V. ; MARTINS, LUÍS FABIANO BARONE ; COSTA, MARCUS V. S. ; CARVALHO, LUIS ; MACEDO, LEONARDO H. ; ROMERO, RUBÉN . Mayfly Optimization Algorithm Applied to the Design of PSS and SSSC-POD Controllers for Damping Low-Frequency Oscillations in Power Systems. International Transactions on Electrical Energy Systems, v. 2022, p. 1-23, 2022. GEROMEL, José C. Differential Linear Matrix Inequalities. [s.l.] : Springer Nature Switzerland, 2023. DOI: 10.1007/978-3-031-29754-0. Disponível em: http://dx.doi.org/10.1007/978-3-031-29754-0. MOREIRA, THALITA B.S. ; COSTA, MARCUS V.S. ; NOGUEIRA, FABRICIO G. . Output feedback Takagi-Sugeno fuzzy model predictive control through linear matrix inequalities approaches. INTERNATIONAL JOURNAL OF MODELLING, IDENTIFICATION AND CONTROL (PRINT), v. 40, p. 84, 2022. CARVALHO, LUIS ; NETO, JOZIAS R.L. ; REZENDE, JEFFERSON C. ; COSTA, MARCUS V.S. ; FORTES, ELENILSON V. ; MACEDO, LEONARDO H. . Linear quadratic regulator design via metaheuristics applied to the damping of low-frequency oscillations in power systems. ISA TRANSACTIONS, v. xx, p. xx, 2022. CARVALHO, LUIS ; COSTA, MARCUS V.S. ; MACEDO, LEONARDO H. ; FORTES, ELENILSON V. . A BATISTA, JACKSON C. S. ; COSTA, MARCUS V. S. ; OLIVEIRA, LEIVA C. . Smart noise reduction in SPR sensors response using multiple-ANN design. IEEE SENSORS JOURNAL, v. xx, p. 1-1, 2020.	

	REGO, ROSANA ; COSTA, MARCUS . Robust control with an anti-windup technique based in relaxed LMI conditions for LTV system. INTERNATIONAL JOURNAL OF MODELLING, IDENTIFICATION AND CONTROL (PRINT), v. 35, p. 298, 2020. COSTA, MARCUS; REIS, FRANCISCO ; CAMPOS, JOSE ; NOGUEIRA, FABRICIO ; ALMEIDA, OTACILIO . Robust Mpc-lmi Controller Applied To Three State Switching Cell Boost Converter. ELETRÔNICA DE POTÊNCIA (IMPRESSO), v. 22, p. 81-90, 2017

ÁREA TEMÁTICA 14		
Título	**CONTROLE PREDITIVO ROBUSTO APLICADO A SISTEMAS EÓLICOS OFFSHORE**	
Vagas	Mestrado: 1	Doutorado: 1
Palavras-chaves	Linear Matrix Inequalities, Robust Model Predictive Control, Switched Control Systems, Fuzzy Control Design, AI control strategies. FOWT control systems	
Descrição	This research aims to study the production of green hydrogen using offshore wind energy in Ceará considering aspectos such as: cost life and levelized cost, robust control process and vibration control stabilizing to FOWTs. The main control techniques in this field are: Robust Predictive Control, (Differential) Linear Matrix Inequalities, and Switched Control.	
Abstract	This research project aims to study the production of green hydrogen using offshore wind energy in Ceará. The investigation will focus on three main areas: the first area evaluates the economic feasibility of green hydrogen plants powered by offshore wind, using LCOE (Levelized Cost of Energy) and LCOH (Levelized Cost of Hydrogen) as key assessment criteria. The second area examines process control in hydrogen production, while the third focuses on vibration control in offshore wind turbines. Economic feasibility is critical for decision-making in project implementation. Given the growth of offshore wind projects in Ceará and Brazil, it is essential to meet the demands of the national wind turbine industry by incorporating advanced technologies that enhance equipment productivity and reliability. Additionally, the research will explore active control techniques, including model predictive control and linear parameter-varying process control. The project also plans to publish scientific articles in these fields.	
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Permanecem inalterados os demais itens e subitens do referido Edital.

Fortaleza, 23 de junho de 2026.

Prof. Francisco Kleber de Araújo Lima
Coordenador do Programa de Pós-Graduação em Engenharia Elétrica