

Virtual Mobility Program 2023

Subjects Catalog

Universidade Federal Rural de Pernambuco

Virtual Mobility

The Virtual Academic Mobility will offer, in a foreign language, classes from the Undergraduate Program for undergrad students from UFRPE and International Partners, under the virtual modality, in order to provide a global experience to all participants.



1st Subject

Subject

Topics of Electric Engineering IV
Academic Unit
Cabo de Santo Agostinho - UACSA

Content

Topics of Engineering has an interdisciplinary content approach, thus, promoting opportunities to develop Engineering projects. The Topics of Engineering subjects adopt a PBL methodology (Project Based Learning), in which Engineering Projects are developed aiming at integrating knowledge in several fields and encouraging students to innovate in the proposed solutions for the problems addressed in the subjects that are necessary for the formation of professionals that are innovative and also aware of need to seek solutions that minimize the impact of human activities in the environment.

Information

Dr Oswaldo Hideo Ando Junior
30 participants
60 hours
Language: Portuguese
Hybrid Communication:
Portuguese and Spanish



2nd Subject

Subject

**Solar photovoltaic
Engineering
Academic Unit of Cabo
de Santo
Agostinho – UACSA**

Content

Introduction to Solar Energy, Current. Black-body radiation, solar spectrum. Components of diffuse and direct solar radiation. Instruments to measure radiation. Measuring long term Radiation. Solar cell, Functioning principles. Manufacturing technology, Photovoltaic cells and Modules. Photovoltaic Autonomous Systems. Systems Connected to The Network. Hybrid systems.

Information

Dr Oswaldo Hideo Ando Junior
30 participants
60 hours
Language: Portuguese



3rd Subject

Subject

Glass technology
Academic Unit of Cabo
de Santo Agostinho -
UACSA

Content

The course is aimed to present glass technology from the basis of science and engineering. It covers fundamental concepts in glass technology such as glass formation, crystallization and structure of glasses. Physical and chemical properties of glass are also presented. Technical topics such as glass making, processing, industrial furnaces and product application are presented, thus providing the student a variety of tools to get into glass research and the glass industry.

Information

Prof. Vincius Dantas de Araújo
40 participants
60 hours
Language: English



4th Subject

Subject

Modern Physics
Academic Unit of Cabo
de Santo
Agostinho - UACSA

Content

The objective of the course “Modern Physics” is to introduce students of traditional engineering courses to concepts of modern physics permeating techniques and devices that they will use in their professional life, and which are requirements for the training of professionals involved in technical and technological areas. The topics covered update classic concepts such as time, energy and laws of mechanics acquired in basic physics courses, and form the basis of the modern technology, particularly electronics, metrology, optics, communications, geopositioning, etc. The following subjects will be addressed: special relativity, beginnings of quantum mechanics, wave properties of particles and basic applications of the Schrödinger equation.

Information

Prof. Marcos César Santos
Oriá Chevrollier
60 hours
Thursday 8am - 10am
Language: English



5th Subject

Subject

**The Behavioral
Economics of Global
Affairs
Department
of Economy**

Content

This class covers 21st-century global issues from a Behavioral Economics Perspective, with emphasis on interdisciplinary views around opportunities to rethink and redesign organizations and public policies. Topics include sustainability, aging, global health, immigration, prejudice and discrimination. The course requires no previous knowledge in economics; half of the classes are dedicated to the understanding and practical application of concepts such as: bounded rationality; contexts and framing; heuristics, cognitive and social biases; prospect theory; organizational behavior; strong contexts, ethical blindness and moral disengagement; organizational decision making; sociality and health behavior. The course is designed for undergraduate students in different fields, but masters students are also welcome as one recognizes possible contributions from multiple professional fields to the solution of global problems.

Information

Prof. Luis Maia
60 hours
Tuesdy 8pm - 9:45pm
Language: English



6th Subject

Subject

**Paulo Freire's
pedagogy**

**Departament of
Education**

Content

Context of influence of the formulation of Paulo Freire's Pedagogy, categories of Paulo Freire's Pedagogy, actuality of Paulo Freire's thought in pedagogical practice.

Information

Profa. Monica Folena -
UFRPE
Profa Enma Campozano -
Universidad Nacional de
Educación - UNAE

60 hours
Monday 1pm - 3pm
Language: Portuguese and
Spanish



Enrollment



Engineering
Topics
Electric IV



Glass
technology



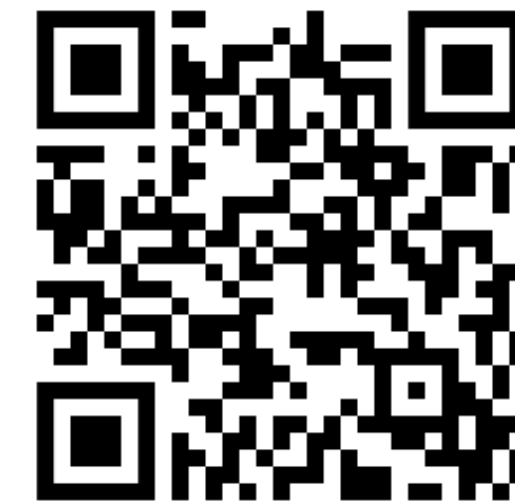
Photovoltaic
Solar
Engineering



Modern
Physics



The Behavioral
Economics of
Global Affairs



Pedagogy of
Paulo
Freire

Academic Information

Schedule

**PERIOD OF
APPLICATION:**
10 UNTIL 30 APRIL

STARTING DATE:
JUNE/2023

ENDING DATE:
SEPTEMBER/2023



Contact us



E-mail

chamado.ipe@ufrpe.br/
international@ufrpe.br



Site

[//international.ufrpe.br](http://international.ufrpe.br)

