

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

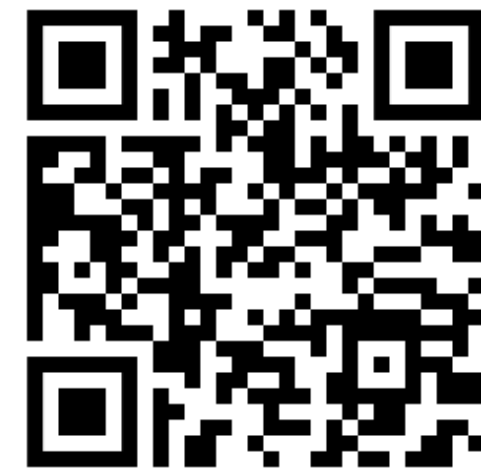
Prof. Marcos César Santos
Oriá Chevrollier
60 hours
Thursday 8h - 10h
Language: English



Enrollment



Engineering Topics
Electric IV



Glass
technology



Photovoltaic Solar
Engineering



Modern
Physics



Academic Information

Schedule

**PERIOD OF
APPLICATION:**
30 MARCH UNTIL
14 APRIL

STARTING DATE:
MAY/2023

ENDING DATE:
AUGUST/2023



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