

Курс за учители по Информатика и информационни технологии

Курсов организатор: STANDOutEDU

Наименование на курса: ***Robotics and STEM in Education***

Продължителност: 5 дни

Място на провеждане: Никозия, КИПЪР

Програма на курса:

DAY 1

Welcome addressed to the participants by management

Course outline

Ice-breaking activities

Introduction to Robotics and STEAM in Education: Explore different techniques and understand what STEM/STEAM/STREAMS is all about. Insight look on case studies and practical exercises on how to incorporate STEAM teaching in current curriculum and different age groups. Class Management tools and 21 century student centric classroom approaches are discussed.

DAY 2

Intro to Robotics for Primary Schools

Intro to Programming

Intro to Sphero SPRK+: Activities with the robotball

Intro to Drone Programming: Activities with the drone

Lego Wedo + Scratch 3.0

Mindstodms + Scratch 3.0

Scratch 3.0 Programming through games

Intro to Gamification of the classroom through STEM ACTIVITIES

Intro to Lego WeDo2

Developing Classroom curriculum

Practical sessions in using robotic equipment

DAY 3

- Intro to Robotics for Secondary Schools
- Intro to Programming
- Intro to Lego Mindstorms EV3
- Level 1 Developing Classroom curriculum using EV3
- Level 1 Practical sessions in using EV3 robotic equipment

DAY 4

Incorporating Robotics for Secondary Schools

Advance EV3 Programming

Projects using Lego Mindstorms EV3

Level 2 Developing Classroom curriculum using EV3

Level 2 Practical sessions in using EV3 robotic equipment

DAY 5

Final activities

Evaluation of the course

Diploma awarding