

## **TOT Program**

### **Course Syllabus**

#### **FLL Coaches Excellence Program**

**Course Title: Innovation project & Core Values Preparation Course**

**Prerequisites: none**

**Credit hours: 9**

**Target audience: Trainers and Teachers**

#### **Course Description:**

This is a TOT course designed for trainers and educators who aim to prepare and coach student teams for the FLL (FIRST LEGO League) competition, with a focus on the Innovation Project and Core Values.

Trainees will receive specialized, hands-on training covering the scientific research process, problem identification, solution development, impact analysis, and project documentation, in addition to deeply understanding FLL Core Values and how to integrate them effectively into team practices and judging presentations.

The course also addresses the judging framework, evaluation rubrics, presentation structure, storytelling techniques, team identity development, and strategies for building collaborative, confident, and well-prepared teams.

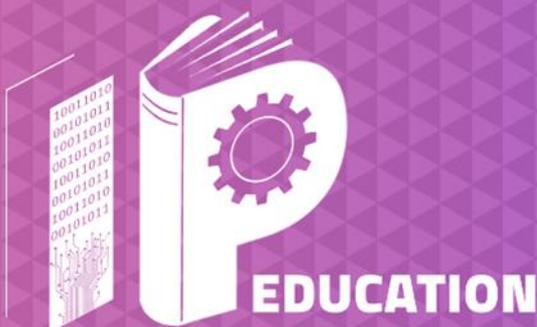
All topics are delivered through practical activities, real FLL case studies, and applied exercises to ensure effective implementation in real competition settings.

<b>The Content</b>	<b>Duration (hour)</b>
<p style="text-align: center;"><b>Innovation Project</b></p> <ul style="list-style-type: none"> <li>• Overview of the annual FLL competition theme and systematic problem exploration</li> <li>•</li> <li>• Scientific research writing and documentation in alignment with FLL standards</li> <li>• Solution selection, design, development, and implementation methodologies</li> <li>• Designing the Innovation Project poster and structuring an effective presentation</li> <li>• Practical, hands-on application and project simulation</li> </ul>	3
<p style="text-align: center;"><b>Core Values</b></p> <ul style="list-style-type: none"> <li>• Introduction to and in-depth understanding of FLL Core Values</li> <li>• Strategies for training and preparing students to demonstrate Core Values effectively</li> <li>• Development of Core Values documentation, evidence, and supporting materials</li> <li>• Team preparations and visual elements that reflect and reinforce Core Values</li> </ul>	3

Judging	3
<ul style="list-style-type: none"> <li>• Comprehensive overview of the FLL judging process</li> <li>• Detailed explanation of official judging rubrics and score sheets</li> <li>• Strategies and best practices for achieving the highest evaluation scores</li> </ul>	

**Learning Objectives: By the end of this course, trainees will:**

- Understand the FLL annual challenge theme and apply systematic problem analysis techniques
- Acquire the ability to guide students in conducting scientific research and developing innovation projects aligned with FLL standards
- Develop skills to support teams in selecting, designing, and implementing effective innovative solutions
- Gain the ability to prepare and evaluate Innovation Project posters and professional presentations
- Comprehend the FLL Core Values and apply effective strategies to train students on demonstrating them in team practices and judging sessions
- Acquire the ability to prepare Core Values documentation, evidence, and supporting materials
- Understand the FLL judging framework, rubrics, and evaluation process
- Develop strategies to maximize team performance and achieve high judging scores
- Be able to coach, mentor, and prepare student teams efficiently for FLL competitions



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