Course title:

Electromagnetic Fields at PhD

Duration [number of hours]: 24

PhD Program [MERC/MPS/SPACE]: SPACE

Name and Contact Details of Unit Organizer:

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course_description

The course provides the Engineering perspective to support comprehension and exploitation of Electromagnetic Fields.

Lectures are conducted at PhD level, but the module is conceived as an introduction to electromagnetics and can be also well attended by PhD students in STEM area that do not studied electromagnetics at BSc and MSc Level.

Theory is presented to provide an overall mathematical background to electromagnetic phenomena. Techniques are illustrated to address problems that involve electromagnetic problems. Methods are presented for conceiving solutions to specific problems. Some algorithms and engineering applications are finally presented.

Syllabus [itemized list of course topics]:


Assessment [form of assessment, e.g. final written/oral exam, solutions of problems during the course, final project to be handed-in etc.]:

The assessment is provided according to the PhD student proficiency and interest by means of an appropriate combination of written/oral exam, solutions of problems during the course, final project to be handed-in.
Suggested reading and online resources:

1. Lectures notes.
2. Lectures slides.