

Training plan schedule (application phase): Matlab

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Level 1 (24 hours)	
students	All students in all departments
Syllabus	<ol style="list-style-type: none">1. What is Matlab2. Operation instructions in Matlab3. Matlab as a calculator4. Mathematics in Matlab (integration-differentiation-limits & continuity-solving polynomials-differential equation-complex analysis-numerical analysis-special functions-statistics)5. Matrices in Matlab6. 2D plotting in Matlab7. 3D plotting in Matlab8. Applicable (ready to use) tools9. Applications (with respect to the department on interest)10. Mini project
Level 2 (24 hours):should finish level 1 first	
students	Students in communication and electronics department (from the 1 st year)
Syllabus	<ol style="list-style-type: none">1. Programming in Matlab2. Matlab toolboxes3. Matlab simulink4. Matlab graphical user interface (GUI)5. project
Level 3 (40 hours): should finish both level 1 and level 2 first	
students	Students in communication and electronics department (from the 2 nd year)
Syllabus	<ol style="list-style-type: none">1. digital Image processing2. Introduction to video processing3. Introduction to Artificial Intelligence4. Project (ready to the MIE and EED competitions):extra time required to complete the project