



Amirkabir University of Technology (Tehran Polytechnic)



Workshop on ANSYS Maxwell Software

Title	ANSYS Maxwell Software
Duration	18 hrs. (3 Days)
Name and position of instructor	Mr. Mohammad Amin Jalali (Research Assistant, Department of Electrical Engineering, Amirkabir University of Technology, Tehran, Iran)
Holding place	Department of Electrical Engineering, Amirkabir University of Technology, Tehran, Iran
Holding time	Around January-February, 2020
Price	450\$

■ **Aims & objectives:** Finite element analysis (FEA) is an outstanding method for solving nonlinear electric and magnetic problems. However, this method cannot be simply applied without advanced computers. One of the most user-friendly FEA Softwares is ANSYS Maxwell. At the end of this workshop, the applicants will be highly skilled to solve different electric and magnetic systems with ANSYS Maxwell Software. Both the 2D and 3D designs will be discussed and all design steps will be thoroughly clarified. Finally, two different case studies will be investigated.

Row	Outline and syllabus	Duration
1	An introduction to finite element analysis (FEA)	3 hrs. (day 1)
2	Getting started with ANSYS Maxwell 2D design	3 hrs. (day 1)
3	Different solution types, setting model and boundary in problems	3 hrs. (day 2)
4	Different excitation methods, meshing operations, field overlays, and setting external circuits	3 hrs. (day 2)
5	Getting started with ANSYS Maxwell 3D design	3 hrs. (day 3)
6	Solving two different 2D and 3D problems in ANSYS Maxwell	3 hrs. (day 3)

■ Registration method

Applicants should initially register at kish.aut.ac.ir (**short-courses menu**) and upload their scans in good quality. After registration, the tracking code is allocated to the applicant, which must be stored and provided to the University's affiliate. Applicants should definitely choose the option (**Short-course on ANSYS Maxwell Software**) in registration process. After registering, University will contact them and set the final time, location and way of tuition fee payment.

■ Contact us

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