



## Electromagnetics

25733 Group 1

1399-1

### A Course on Essential Elements for Electrical Engineering .

**Course Objectives:** Learn the fundamental laws of electromagnetics. These laws govern our world and everyday life, such as seeing objects or operation of our smart phones. Concepts such as electricity and magnetism, charges, current, static and dynamic electric and magnetic fields, capacitance and inductance, energy, power, etc. are discussed. These crucial concepts form an important basis of our understanding in physics and electrical engineering.

- *Instructor:* **Dr. Mahmood Akbari**, Associate professor
- *Email:* [makbari@sharif.edu](mailto:makbari@sharif.edu), *website:* <http://ee.sharif.ir/~makbari>
- *Textbook:* **Elements of Engineering Electromagnetics**, N. N. Rao, Illinois ECE Series, 6<sup>th</sup> ed. (Chapters 1-5)

#### Lectures

- Sunday and Tuesday 7:30 – 9:00 AM

#### Tutorials

- Sunday 3:00 – 4:30 PM (Start on 13 Mehr)
- Monday 3:00 – 4:30 PM (Start on 14 Mehr)

#### Course Evaluation:

- Assignments: 10% (Deadlines are on Saturdays 11:59 PM)
- Quizzes: 50% (On Thursdays 15:00 AM)
- Final exam: 40%

#### Course Time Table:

Chapter	Number of sessions	Strat	End	HW deadlines	Quiz
1	6	6/30	7/15	7/12 and 7/19	7/24
2	5	7/20	8/6	8/3 and 8/10	8/15
3	6	8/11	9/2	8/24 and 9/8	9/13
4	6	9/4	9/23	9/15 and 9/29	10/4
5	5	9/25	10/9	10/6 and 10/13	10/11