



HANYANG UNIVERSITY

2019 HISS Syllabus (Impact of Electromagnetic Radiation)

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Home Univ.: Hanyang University
Dept.: Dept. of Electronic Engineering

Description: This course is designed to increase knowledge and understanding about the impact of radio transmission, wireless technologies, lasers and light sources, X-ray and Terahertz technologies and the impacts of UV and Gamma rays.

Objective:

1. To introduce students to foundations of electromagnetic theory with focus on electromagnetic radiation
2. To introduce students to benefits of using electromagnetic radiation in everyday life and medical science
3. To introduce students to radiation induced injuries and electromagnetic pollution

Preparations: Lecture material will be available for purchase

Schedule:

Week 1	A Brief Review of Electromagnetic Radiation
Week 2	Impacts of Radio Transmission & Wireless Technologies
Week 3	Impacts of Lasers and Other Light Sources & Impacts of X-Ray, UV and Gamma Ray
Week 4	Biomedical Applications of Electromagnetic Fields and Radiation-Related Accidents

Evaluation:	Midterm (%)	Final (%)	Attendance (%)	Assignments (%)	Participation (%)	Etc. (%)
	40	40	10	00	10	00

Hanyang International Summer School

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