

# ELECTROMAGNETIC WAVE THEORY

<b>1</b>	Course Title:	ELECTROMAGNETIC WAVE THEORY	
<b>2</b>	Course Code:	EEM2202	
<b>3</b>	Type of Course:	Compulsory	
<b>4</b>	Level of Course:	First Cycle	
<b>5</b>	Year of Study:	2	
<b>6</b>	Semester:	4	
<b>7</b>	ECTS Credits Allocated:	5.00	
<b>8</b>	Theoretical (hour/week):	3.00	
<b>9</b>	Practice (hour/week):	0.00	
<b>10</b>	Laboratory (hour/week):	0	
<b>11</b>	Prerequisites:	-	
<b>12</b>	Language:	Turkish	
<b>13</b>	Mode of Delivery:	Face to face	
<b>14</b>	Course Coordinator:	Doç.Dr. UĞUR YALÇIN	
<b>15</b>	Course Lecturers:	Yrd. Doç.Dr. ESİN KARPAT Öğr. Gör. Dr. Sevim KURTULDU	
<b>16</b>	Contact information of the Course Coordinator:	uyalcin@uludag.edu.tr, +90 (224) 2942023, Uludağ Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Müh. Bölümü Görükle / BURSA	
<b>17</b>	Website:		
<b>18</b>	Objective of the Course:	Historical development of electromagnetism, to search behavior of electromagnetic waves.	
<b>19</b>	Contribution of the Course to Professional Development:		
<b>20</b>	Learning Outcomes:		
		1	The gain of ability to model and solve electromagnetic waves problems using theoretical knowledge.
		2	Gain the ability to identify, model, and solve complex engineering problems on electromagnetic waves; the ability to select and apply appropriate analysis and modelling methods for these problem.
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<b>21</b>	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Faraday's Law of Electromagnetic Induction. A Stationary Circuit in a Time-Varying Magnetic Field.		



ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>LO: Learning Objectives    PQ: Program Qualifications</b>																
<b>Contribution Level:</b>	<b>1 very low</b>		<b>2 low</b>			<b>3 Medium</b>			<b>4 High</b>			<b>5 Very High</b>				