

Fen Bilimleri Enstitüsü

Fizik / Fizik (İngilizce)

Doktora

Genel Toplam

Ders Adedi :8

T : 24

U :

Kredi : 60

ECTS : 60

T+U : 24

1. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	PHYS-C1	Core - 1 (Ders 1) <small>[Bu ders PHYS-C1 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
2	PHYS-E1,2,3-DR	Elective - 1,2,3 (Ders 1) <small>[Bu ders PHYS-E1,2,3-DR ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
3	PHYS-E1,2,3-DR	Elective - 1,2,3 (Ders 2) <small>[Bu ders PHYS-E1,2,3-DR ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
4	PHYS-E1,2,3-DR	Elective - 1,2,3 (Ders 3) <small>[Bu ders PHYS-E1,2,3-DR ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
Toplam			12	0	32	32

2. YARIYIL

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	FBE-ES	Enstitü Seçimlik (Ders 1) <small>[Bu ders FBE-ES ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	4	4
2	PHYS-C2	Core - 2 (Ders 1) <small>[Bu ders PHYS-C2 ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
3	PHYS-E4,5-DR	Elective - 4,5 (Ders 1) <small>[Bu ders PHYS-E4,5-DR ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
4	PHYS-E4,5-DR	Elective - 4,5 (Ders 2) <small>[Bu ders PHYS-E4,5-DR ders grubundan alınacaktır, aşağıya bakınız]</small>	3	0	8	8
Toplam			12	0	28	28

PHYS-C1

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	PHYS8004	Advanced Statistical Mechanics	3	0	8	8
2	PHYS8005	Advanced Classical Mechanics	3	0	8	8
3	PHYS8017	Advanced Electromagnetic Theory	3	0	8	8
4	PHYS8018	Advanced Quantum Mechanics	3	0	8	8

PHYS-E1,2,3-DR

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	PHYS8003	Advanced Mathematical Methods in Physics	3	0	8	8
2	PHYS8004	Advanced Statistical Mechanics	3	0	8	8
3	PHYS8005	Advanced Classical Mechanics	3	0	8	8
4	PHYS8006	Quantum Theory of Solids	3	0	8	8
5	PHYS8007	Condensed Matter Physics	3	0	8	8
6	PHYS8008	Advanced Group Theory	3	0	8	8
7	PHYS8009	Advanced Analysis Techniques in Physics	3	0	8	8
8	PHYS8010	Magnetic Properties of Matter	3	0	8	8
9	PHYS8011	Thin Films	3	0	8	8
10	PHYS8012	Advanced Molecular Physics	3	0	8	8
11	PHYS8014	Advanced General Relativity	3	0	8	8
12	PHYS8016	Advanced Physics of Semiconductor Devices	3	0	8	8
13	PHYS8017	Advanced Electromagnetic Theory	3	0	8	8
14	PHYS8018	Advanced Quantum Mechanics	3	0	8	8

FBE-ES

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	CSE7004	Combinatorial Optimization	3	0	8	8
2	CSE701	Advanced Database Systems	3	0	3	8
3	CSE702	Software Processes	3	0	3	8
4	CSE703	Object Oriented Design and Programming	3	0	3	8
5	CSE705	Mathematics for Computer Science	3	0	3	8
6	CSE706	Design and Analysis of Algorithms	3	0	3	8
7	CSE707	Advanced Engineering Mathematics	3	0	3	8
8	CSE708	Graph Theory	3	0	3	8
9	CSE709	Computational Complexity	3	0	3	8
10	CSE710	Probability and Random Processes	3	0	3	8
11	CSE711	Introduction to Cryptography	3	0	3	8
12	CSE713	Digital Signal Processing	3	0	3	8
13	CSE715	Digital Image Processing	3	0	3	8
14	CSE716	Computer Vision	3	0	3	8
15	CSE717	Automata Theory	3	0	3	8
16	CSE718	Performance Evaluation of Computer Networks	3	0	3	8
17	CSE719	Computer Architecture	3	0	3	8
18	CSE720	Advanced Computer Networks	3	0	3	8
19	CSE721	Parallel Processing	3	0	3	8
20	CSE722	Advanced Operating Systems	3	0	3	8
21	CSE723	Multi-Core Computing	3	0	3	8
22	CSE724	Distributed Systems	3	0	3	8
23	CSE725	Nature-Inspired Computing	3	0	3	8
24	CSE726	Task Scheduling in Distributed Systems	3	0	3	8
25	CSE727	Optical Networks	3	0	3	8
26	CSE728	Cluster Computing	3	0	3	8
27	CSE729	Machine Learning	3	0	3	8
28	CSE730	Text Processing	3	0	3	8
29	CSE731	Semantics of Programming Languages	3	0	3	8
30	CSE732	Evolutionary Computation	3	0	3	8
31	CSE733	Advanced Computer Graphics	3	0	3	8
32	CSE734	Neural Networks	3	0	3	8
33	CSE735	Multimedia Systems	3	0	3	8

PHYS-C2

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	PHYS8004	Advanced Statistical Mechanics	3	0	8	8
2	PHYS8005	Advanced Classical Mechanics	3	0	8	8
3	PHYS8017	Advanced Electromagnetic Theory	3	0	8	8
4	PHYS8018	Advanced Quantum Mechanics	3	0	8	8

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34	CSE736	Pattern Recognition	3	0	3	8
35	CSE737	Electronic Commerce Technologies	3	0	3	8
36	CSE738	Bio-Inspired Artificial Intelligence	3	0	3	8
37	CSE739	Digital Forensics	3	0	3	8
38	CSE740	Learning Automata	3	0	3	8
39	CSE741	Embedded Systems	3	0	3	8
40	CSE742	Optimal and Adaptive Control	3	0	3	8
41	CSE744	Digital Divide	3	0	3	8
42	CSE745	Introduction to Data Mining	3	0	3	8
43	CSE746	Introduction to Bioinformatics	3	0	3	8
44	CSE747	Information Retrieval and Web Search	3	0	3	8
45	CSE748	Introduction to Web Mining	3	0	3	8
46	CSE749	Special Topics Computer Engineering I	3	0	3	8
47	CSE750	Special Topics Computer Engineering II	3	0	3	8
48	CSE751	Knowledge Based Systems	3	0	3	8

PHYS-E4,5-DR

No	Ders Kodu	Ders Adı	T	U	Kredi	ECTS
1	PHYS8003	Advanced Mathematical Methods in Physics	3	0	8	8
2	PHYS8004	Advanced Statistical Mechanics	3	0	8	8
3	PHYS8005	Advanced Classical Mechanics	3	0	8	8
4	PHYS8006	Quantum Theory of Solids	3	0	8	8
5	PHYS8007	Condensed Matter Physics	3	0	8	8
6	PHYS8008	Advanced Group Theory	3	0	8	8
7	PHYS8009	Advanced Analysis Techniques in Physics	3	0	8	8
8	PHYS8010	Magnetic Properties of Matter	3	0	8	8
9	PHYS8011	Thin Films	3	0	8	8
10	PHYS8012	Advanced Molecular Physics	3	0	8	8
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