

Credits (sks) to ECTS Conversion

No	Course Name	Course Code	Workload (sks)	Lecture Form (sks)	Seminar Form (sks)	Practicum Form (sks)	Lecture Form (ECTS)	Seminar Form (ECTS)	Practicum Form (ECTS)	Workload (ECTS)	(180-240)ECTS	Hours					Weeks	
												In-class Tasks	Structured Tasks	Self-Learning	Seminar	Practicum		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8) = (5) * 1.6	(9) = (6)*1.6	(10) = (7) * 1.6	(11) = (8) + (9) + (10)	240						16	
Semester 1												1646.67	1976.00	1976.00	173.33	906.67	6678.67	(5400-7200) hours
1	English	UG184914	2	2			3.2	0	0	3.2		26.67	32.00	32.00	0.00	0.00		
2	Mathematics I	KM184101	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
3	Physics I	SF184101	4	3		1	4.8	0	1.6	6.4		40.00	48.00	48.00	0.00	45.33		
4	Mathematical Physics I	SF184102	2	2			3.2	0	0	3.2		26.67	32.00	32.00	0.00	0.00		
5	Chemistry I	SK184101	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
6	Biology	SW185702	2	2			3.2	0	0	3.2		26.67	32.00	32.00	0.00	0.00		
7	Pancasila	UG184911	2	2			3.2	0	0	3.2		26.67	32.00	32.00	0.00	0.00		
Semester 2												0.00	0.00	0.00	0.00	0.00		
8	Mathematics II	KM184201	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
9	Physics II	SF184202	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
10	Physics III	SF184203	3	2		1	3.2	0	1.6	4.8		26.67	32.00	32.00	0.00	45.33		
11	Chemistry II	SK184202	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
12	Religion	UG184901	2	2			3.2	0	0	3.2		26.67	32.00	32.00	0.00	0.00		
13	Bahasa Indonesia	UG184912	2	1.5	0.5		2.4	0.8	0	3.2		20.00	24.00	24.00	13.33	0.00		
14	Citizenship	UG184913	2	2			3.2	0	0	3.2		26.67	32.00	32.00	0.00	0.00		
Semester 3												0.00	0.00	0.00	0.00	0.00		
15	Mechanics I	SF184301	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
16	Waves	SF184302	3	2.5		0.5	4	0	0.8	4.8		33.33	40.00	40.00	0.00	22.67		
17	Thermodynamics	SF184303	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
18	Mathematical Physics II	SF184304	4	4			6.4	0	0	6.4		53.33	64.00	64.00	0.00	0.00		
19	Electronics	SF184305	4	3		1	4.8	0	1.6	6.4		40.00	48.00	48.00	0.00	45.33		
20	Physical Measurement Methods	SF184306	2	1.5		0.5	2.4	0	0.8	3.2		20.00	24.00	24.00	0.00	22.67		
Semester 4												0.00	0.00	0.00	0.00	0.00		
21	Mechanics II	SF184401	3	3			4.8	0	0	4.8		40.00	48.00	48.00	0.00	0.00		
22	Optics	SF184402	3	2.5		0.5	4	0	0.8	4.8		33.33	40.00	40.00	0.00	22.67		
23	Modern Physics	SF184403	4	3.5		0.5	5.6	0	0.8	6.4		46.67	56.00	56.00	0.00	22.67		
24	Mathematical Physics III	SF184404	4	4			6.4	0	0	6.4		53.33	64.00	64.00	0.00	0.00		
25	Instrumentation	SF184405	4	3		1	4.8	0	1.6	6.4		40.00	48.00	48.00	0.00	45.33		
26	Materials Science	SF184406	2	2			3.2	0	0	3.2		26.67	32.00	32.00	0.00	0.00		

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Semester 5										
27	Quantum Physics	SF184501	4	4			6.4	0	0	6.4
28	Electromagnetic Field I	SF184502	3	3			4.8	0	0	4.8
29	Laboratory Physics I	SF184503	2			2	0	0	3.2	3.2
30	Computational Physics I	SF184504	3	2.5		0.5	4	0	0.8	4.8
31	Optoelectronics	SF184505	2	2			3.2	0	0	3.2
32	Digital Data Acquisition	SF184506	2	1.5		0.5	2.4	0	0.8	3.2
Semester 6										
33	Statistical Physics	SF184601	3	3			4.8	0	0	4.8
34	Electromagnetic Field II	SF184602	3	3			4.8	0	0	4.8
35	Laboratory Physics II	SF184603	2			2	0	0	3.2	3.2
36	Computational Physics II	SF184604	3	2.5		0.5	4	0	0.8	4.8
37	Geophysical Exploration Methods	SF184605	2	1.5		0.5	2.4	0	0.8	3.2
38	Technological Insights and Applications	UG184916	3	3			4.8	0	0	4.8
Semester 7										
39	Nuclear Physics	SF184701	4	4			6.4	0	0	6.4
40	Solid State Physics	SF184702	4	4			6.4	0	0	6.4
41	Scientific Writing Methods	SF184703	2	2	2		3.2	3.2	0	6.4
42	Physics of Radiology and Dosimetry	SF184704	2	2			3.2	0	0	3.2
43	Technopreneurship	UG184915	2	2			3.2	0	0	3.2
44	Elective Courses		6	3	2	1	4.8	3.2	1.6	9.6
Semester 8										
45	Final Project	SF184801	6			6	0	0	9.6	9.6
46	Laboratory Management	SW184801	2	2			3.2	0	0	3.2
47	Elective Courses		6	3	2	1	4.8	3.2	1.6	9.6
48	Enrichment Courses		3	3			4.8	0	0	4.8
Kegiatan lainnya										
1	TELF test (TA)			2			3.2	0	0	3.2
2	Extracurricular (SKEM)			2			3.2	0	0	3.2

(180-240)ECTS

Hours					Weeks
0.00	0.00	0.00	0.00	0.00	
53.33	64.00	64.00	0.00	0.00	
40.00	48.00	48.00	0.00	0.00	
0.00	0.00	0.00	0.00	90.67	
33.33	40.00	40.00	0.00	22.67	
26.67	32.00	32.00	0.00	0.00	
20.00	24.00	24.00	0.00	22.67	
0.00	0.00	0.00	0.00	0.00	
40.00	48.00	48.00	0.00	0.00	
40.00	48.00	48.00	0.00	0.00	
0.00	0.00	0.00	0.00	90.67	
33.33	40.00	40.00	0.00	22.67	
20.00	24.00	24.00	0.00	22.67	
40.00	48.00	48.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
53.33	64.00	64.00	0.00	0.00	
53.33	64.00	64.00	0.00	0.00	
26.67	32.00	32.00	53.33	0.00	
26.67	32.00	32.00	0.00	0.00	
26.67	32.00	32.00	0.00	0.00	
40.00	48.00	48.00	53.33	45.33	
0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	272.00	
26.67	32.00	32.00	0.00	0.00	
40.00	48.00	48.00	53.33	45.33	
40.00	48.00	48.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	
26.67	32.00	32.00	0.00	0.00	
26.67	32.00	32.00	0.00	0.00	