

Rancangan Pengajaran Semester 1 Sistem Dua Semester Sesi 2024/2025 SP015 Physics 1 Unit Fizik Kolej Matrikulasi Sarawak

Week	Date	Lecture	Tutorial	Practical	Assessment	Remarks
1	08/07/2024 - 12/07/2024	1: Physical Quantities And Measurements	1.1: Dimensions Of Physical Quantities			Awal
			1.2: Scalars And Vectors			Muharram (8
			1.3: Significant Figures And Uncertainties Analysis			Jul)
2	15/07/2024 - 19/07/2024	2: Kinematics Of Motions	2.1: Linear Motion	Exp 0: Introduction to Laboratory		
			2.2: Uniformly Accelerated Motion	Skills and Safety		
	22/07/2024 - 26/07/2024	3: Dynamics Of Linear Motion	2.2: Uniformly Accelerated Motion	Exp 1:		Sarawak Day (22 Jul)
3			2.3: Projectile Motion	Measurement and Uncertainty		
		3: Dynamics Of Linear Motion	3.1: Momentum And Impulse	Exp 2: Free		
4	29/07/2024 - 02/08/2024		3.2: Conservation Of Linear Momentum	Fall and Projectile Motion		
5	05/08/2024 - 09/08/2024	4: Work, Energy And Power	3.3: Basic Of Forces And Free Body Diagram			
			3.4: Newton's Laws Of Motion			
			4.1: Work			
6	12/08/2024 - 16/08/2024	4: Work, Energy And Power	4.2: Energy And Conservation Of Energy	Exp 3: Energy		
7	19/08/2024 - 23/08/2024	5: Circular Motion	4.3: Power	Exp 4: Rotational Motion of Rigid Body	UPS1	
			5.1: Parameters In Circular Motion			National Day
8	26/08/2024 - 30/08/2024	5: Circular Motion	5.2: Uniform Circular Motion	_		(31 Aug)
			5.3: Centripetal Force 6.1: Rotational Kinematics	E F. Cil-	A:	
9	02/09/2024 - 06/09/2024	6: Rotation Of Rigid Body		Exp 5: Simple Harmonic	Assignment Handout (6	
		,	6.2: Equilibrium Of A Uniform Rigid Body	Motion	Sept 2024)	
10	09/09/2024 - 13/09/2024	6: Rotation Of Rigid Body	6.3: Rotational Dynamics	Exp 6: Standing		
			6.4: Conservation Of Angular Momentum	Waves		
15/09/2024 - 21/09/2024			Cuti Pertengahan Semester			Malaysia Day & Prophet Birthday (16 Sept)
11	22/09/2024 - 26/09/2024	7: Oscillations And Waves	7.1: Kinematics Of Simple Harmonic Motion 7.2: Graphs Of Simple Harmonic Motion		UPS2 Assignment	
			7.3: Period Of Simple Harmonic Motion		Submission (22 Sept 2024)	
			7.4: Properties Of Waves		Lab Test (Group A)	
12	29/09/2024 - 03/10/2024	7: Oscillations And Waves	7.5: Superposition Of Waves			
13	06/10/2024 - 10/10/2024	7: Oscillations And Waves	7.6: Application Of Standing Waves		Lab Test (Group B)	
14	13/10/2024 - 17/10/2024	8: Physics Of Matter	7.7: Doppler Effect			
			8.1: Stress And Strain			
15	20/10/2024 - 24/10/2024	8: Physics Of Matter	8.2: Young's Modulus		UPS3	
16	27/10/2024 - 31/10/2024	9: Kinetic Theory Of Gases And Thermodynamics	8.3: Heat Conduction 8.4: Thermal Expansion	_		Deepavali (31 Oct)
17	03/11/2024 - 07/11/2024	9: Kinetic Theory Of Gases And Thermodynamics	9.1: Kinetic Theory Of Gases 9.2: Molecular Kinetic Energy And Internal Energy			
		Thermodynamics	0,0			
18	10/11/2024 - 14/11/2024	9: Kinetic Theory Of Gases And Thermodynamics	9.3: First Law Of Thermodynamics 9.4: Thermodynamic Processes			
		Thermodynamics	9.5: Thermodynamic Work			
	6/11/2024 - 24/11/2024		Revision Week			
	25/11/2024 - 2/12/2024 3/12/2024 - 08/12/2024		PSPM 1			
0	J: 12/2024 - 00/12/2024		Cuti Antara Semester			

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Ketua Unit Fizik



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Rancangan Pengajaran Semester 2 Sistem Dua Semester Sesi 2024/2025 SP025 Physics 2 Unit Fizik Kolej Matrikulasi Sarawak

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Week	Date	Lecture 1: ELECTROSTATICS	Tutorial 1.1: Coulomb's Law	Practical	Assessment	Remarks			
1	09/12/2024 - 13/12/2024	1. LLECTROSTATICS	1.1: Coulomb's Law 1.2: Electric field						
			1.3: Electric potential						
		1: ELECTROSTATICS	1.4: Charge in a uniform electric field	Evn 1: Consoitor					
		1: ELECTROSTATICS	1.4: Charge in a uniform electric field	Exp 1: Capacitor					
2	16/12/2024 - 20/12/2024		2.1: Capacitance and capacitors in series						
			and parallel 2.2: Charging and discharging capacitors	-					
		Cuti	Khas Semester, (21/12/2024 - 29/12/2024)						
		2: CAPACITORS AND	2.3: Capacitors with dielectrics	Exp 2: Ohm's Law					
3	30/12/2024 - 03/01/2025	DIELECTRICS	1	Exp 2. Omn's Law					
			2.3: Capacitors with dielectrics 3.1: Electrical current	-					
		2: CAPACITORS AND							
		DIELECTRICS	3.2: Ohm's Law and resistivity						
4	06/01/2025 - 10/01/2025		3.3: Variation of resistance with						
			temperature 3.4: Electromotive force (emf), internal	-					
			resistance and potential difference						
		3: ELECTRIC CURRENT	25 P :	F 2 D 4 4					
5	13/01/2025 - 17/01/2025	AND DIRECT CURRENT CIRCUITS	3.5: Resistors in series and parallel	Exp 3: Potentiometer					
	13/01/2023 - 17/01/2023		3.6: Kirchhoff's Rules						
			3.6: Kirchhoff's Rules						
		3: ELECTRIC CURRENT AND DIRECT	3.7: Electrical energy and power						
6	20/01/2025 - 24/01/2025	CURRENT CIRCUITS	3.7. Electrical energy and power						
	20/01/2023 21/01/2023		3.8: Potential divider						
			3.9: Potentiometer						
			rtengahan Semester (1), (25/1/2025 - 2/2/20	- /		ı			
		4: MAGNETISM	3.9: Potentiometer	Exp 4: Magnetic Field	UPS1				
7	03/02/2025 - 07/02/2025		4.1: Magnetic field						
			4.2: Resultant magnetic field produced by						
			current-carrying conductor 4.3: Force on a moving charged particle in						
		4: MAGNETISM	a uniform magnetic field						
8	10/02/2025 - 14/02/2025		4.4: Force on a current carrying conductor						
			in a uniform magnetic field 4.5: Forces between two parallel current-	-					
			carrying conductors						
		5: ELECTROMAGNETIC	4.5: Forces between two parallel current-	Exp 5: Geometrical	Individual				
		INDUCTION	carrying conductors	Optics	Assignment (TOPIC 4)				
9	17/02/2025 - 21/02/2025		4.6: Application of motion of charged	-	(10110 4)				
			particle						
		5 EV ECTRONAL CHETYC	5.1: Magnetic flux						
		5: ELECTROMAGNETIC INDUCTION	5.2: Induced emf						
10	24/02/2025 - 28/02/2025		5.2: Induced emf						
			5.3: Self-inductance						
		6: ALTERNATING CURRENT	5.4: Energy stored in inductor	Exp 6: Diffraction Grating					
11	03/03/2025 - 07/03/2025	Coldenti	5.5: Mutual inductance	Grating					
			6.1: Alternating current						
		6: ALTERNATING	6.2: Root mean square (rms)		UPS2				
		CURRENT		-					
12	10/03/2025 - 14/03/2025		6.3: Resistance, reactance and impedance						
			(2 P : 1	1					
			6.3: Resistance, reactance and impedance						
		7: OPTICS	6.4: Power and power factor		Practical Test				
13	17/03/2025 - 21/03/2025		7.1: Reflection at a spherical surface						
		7: OPTICS	7.2: Refraction at a spherical surface 7.3: Thin lenses		Practical Test				
1.4	24/02/2025 28/02/2025		7.4: Huygen's Principle						
14	24/03/2025 - 28/03/2025		7.5: Constructive and destructive	1					
		Cuti P	interferences rtengahan Semester (2), (29/3/2025 - 6/4/20	125)					
			7.6: Interference of transmitted light						
		7: OPTICS	through double-slits]					
15	07/04/2025 - 11/04/2025		7.6: Interference of transmitted light						
			through double-slits 7.7: Interference of reflected light in thin						
L			films						
		8: WAVE PROPERTIES	7.7: Interference of reflected light in thin		UPS3	Good Friday			
16	14/04/2025 - 18/04/2025	OF PARTICLE	films 7.8: Diffraction by a single slit		0.00				
			7.8: Diffraction by a single slit 7.9: Diffraction grating			18/4/2025			
		9: NUCLEAR AND							
17	21/04/2025 - 25/04/2025	PARTICLE PHYSICS	8.1: de Broglie wavelength]					
1 1/	21/04/2025 - 23/04/2025		8.2: Electron diffraction						
-		9: NUCLEAR AND	9.1: Binding energy and mass defect						
	20/04/2005	9: NUCLEAR AND PARTICLE PHYSICS	9.2: Radioactivity						
18	28/04/2025 - 02/05/2025		9.3: Particle accelerator]					
			9.4: Fundamental particle						
	3/5/2025 - 12/5/2025		Revision W						
	13/5/2025 - 20/5/2025 PSPM 2 Tamat Sesi 2024/2025								
Tamat Sesi 2024/2025									

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