

APPLIED PHYSICS LABAROTARY

COORDINATOR



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SUPPORT STAF



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LAB DISCRPTION

SIF2011 Applied Physics Practical is designed in such a way as a preparation module prior to the Final Year Project. Students are trained to perform hands-on experiments using concepts in solid state physics, optics, materials science, radiation and plasma physics.

COURSE PRO FORMA

	Versi Bahasa Malaysia <i>Malay Version</i>	Versi Bahasa Inggeris <i>English Version</i>
Akademi/Fakulti/Institut/Pusat <i>Academy/Faculty/Institute/Centre</i>	Sains	<i>Science</i>
Jabatan <i>Department</i>	Fizik	<i>Physics</i>
Nama Program Akademik <i>Name of Academic Programme</i>	Sarjana Muda Sains Fizik Sarjana Muda dengan Pendidikan	<i>Bachelor of Science in Physics Bachelor of Science with Education</i>
Kod Kursus* <i>Course Code*</i>	SIF2011	<i>SIF2011</i>
Tajuk Kursus* <i>Course Title*</i>	Fizik Gunaan Amali	<i>Applied Physics Practical</i>
Kredit* <i>Credit*</i>	4	<i>4</i>
Masa Pembelajaran Pelajar (SLT) <i>Student Learning Time (SLT)</i>	160 jam	<i>160 hours</i>
Prasyarat/Keperluan Minimum Kursus <i>Course Pre-requisite(s)/Minimum Requirement(s)</i>	SIF1006 Fizik Amali I	<i>SIF1006 Physics Practical I</i>
Hasil Pembelajaran Kursus* <i>Course Learning Outcomes*</i>	<p>Pada akhir kursus ini, pelajar dapat:</p> <p>Menggunakan konsep-konsep dalam fizik keadaan pepejal, fizik plasma, optik, fizik sinaran, sains bahan dan fotonik dalam eksperimen fizik gunaan.</p> <p>Melakukan pengukuran dengan menggunakan alat-alat yang dibekalkan dalam eksperimen fizik gunaan. Melakukan analisa rapi pada data eksperimen termasuk analisa statistik, pepadanan lengkung dan analisa ralat.</p> <p>Memberi kesimpulan berasaskan analisa data eksperimen.</p>	<p><i>At the end of the course, the student will be able to:</i></p> <p><i>Use concepts in solid state physics, plasma physics, optics, radiation physics, materials science and photonics in applied physics experiment.</i></p> <p><i>Perform measurements using instruments provided in the applied physics experiment.</i></p> <p><i>Perform rigorous analysis on acquired experimental data including statistical analysis, curve-fitting and error analysis.</i></p> <p><i>Provide conclusion based on analysis of experimental data.</i></p>

Kemahiran Insaniah <i>Soft Skills</i>	Kemahiran Berkomunikasi (CS3) Pemikiran Kritis dan Kemahiran Menyelesaikan Masalah (CTPS3)	<i>Communication Skills (CS3)</i> <i>Critical Thinking and Problem Solving Skills (CTPS3)</i>
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	Kemahiran Kerja Berpasukan (TS1) Pembelajaran Berterusan dan Pengurusan Maklumat (LL2)	<i>Team Work Skills (TS1)</i> <i>Life Long Learning and Information Management (LL2)</i>
Sinopsis Kandungan Kursus <i>Synopsis of Course Contents</i>	Eksperimen-eksperimen fizik yang bercorak guna meliputi tajuk-tajuk: Fizik Keadaan Pepejal, Fizik Plasma, Optik, Fizik Sinaran, Sains Bahan dan Fotonik.	<i>Applied physics experiments covering topics in Solid State Physics, Plasma Physics, Optics, Radiation Physics, Materials Science, and Photonics.</i>
Pemberatan Penilaian* <i>Assessment Weightage*</i>	Penilaian Berterusan: 100% Peperiksaan Akhir: 0%	<i>Continuous Assessment: 100%</i> <i>Final Examination: 0%</i>
Kaedah Maklum Balas Tentang Prestasi <i>Methodologies for Feedback on Performance</i>	Gred untuk laporan makmal diumumkan dalam Spectrum / ditulis atas laporan.	<i>Grades for laboratory reports to be announced in Spectrum / written on the reports.</i>
Kriteria Dalam Penilaian Sumatif <i>Criteria in Summative Assessment</i>	Sila rujuk buku KAEDAH- KAEDAH UNIVERSITI MALAYA (PENGAJIAN IJAZAH PERTAMA) 2019 dan PERATURAN PERATURAN UNIVERSITI MALAYA (PENGAJIAN IJAZAH PERTAMA) 2019.	<i>Please refer to the UNIVERSITY OF MALAYA (FIRST DEGREE) RULES 2019 and UNIVERSITY OF MALAYA (FIRST DEGREE) REGULATIONS 2019 handbook.</i>

