



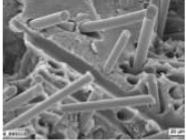
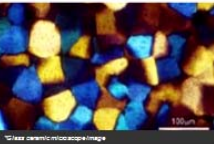



Senarai Produk Penyelidikan Pusat:

BIL	PRODUK DAN KETERANGAN RINGKAS	BUTIRAN PEGAWAI UNTUK DIHUBUNGI	STATUS PRODUK (Untuk pemantauan di peringkat pusat)
1.	<p>Nama produk: Crash Investigation and Reconstruction Training</p> <p>Keterangan: The course covers the scope of crash investigation up to the crash reconstruction. In overall, the course is divided into 3 levels; Basic, Intermediate and Advance with different numbers of teaching hours and teaching method proportions. Crash Investigation focuses on the interpretation and analysis of traffic crash related evidence and includes specific techniques of onsite measurements and vehicle damage severity assessments. Crash Reconstruction focuses on analyzing and interpreting information that has been collected and further explores the techniques for reconstructing traffic crashes and acquires even more advanced skills through the analysis of real-world case studies. Among other content in prepared in the courses are injury scaling techniques using Abbreviated Injury Scale (AIS), photogrammetry, which is the science of extracting measurements from photographs, and also developing crash animations based on real world parameters.</p>	<p>Nama:</p> <ol style="list-style-type: none"> 1. Ahmad Noor Syukri Zainal Abidin 2. Mohd Amirudin Mohamad Radzi 3. Zarir Hafiz Zulkipli <p>No Tel: 03 – 8924 9200</p> <p>Emel:</p> <ol style="list-style-type: none"> 1 ansyukri@miros.gov.my 2 mohdamirudin@miros.gov.my 3 zarirhafiz@miros.gov.my 	Siap sedia untuk dipasarkan

BIL	PRODUK DAN KETERANGAN RINGKAS	BUTIRAN PEGAWAI UNTUK DIHUBUNGI	STATUS PRODUK (Untuk pemantauan di peringkat pusat)
2.	<p>Nama produk: CRU Material Properties (MatPro) Lab</p> <p>Keterangan: CRU Material Properties Laboratory offers a variation of material analysis techniques which includes material sample preparation, materials research, materials characterization and failure analysis. We used primarily imaging (optical microscope) and chemical methods.</p>  <p>Our laboratory also equipped with accelerated ageing, where material is tested on specified environmental conditions of heat, oxygen and stress to speed up the normal aging processes of items. The study is useful in order to determine the long term effects of expected levels of stress within a short time. The ageing chamber is not only limited to sample ageing but can also perform product ageing.</p>	<p>Nama:</p> <ol style="list-style-type: none"> 1. Fauziana Lamin 2. Afiqah Omar <p>No Tel: 03 – 8924 9200</p> <p>Emel:</p> <ol style="list-style-type: none"> 1. fauziana@miros.gov.my 2. afiqah@miros.gov.my 	Siap sedia untuk dipasarkan

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	 <p data-bbox="414 643 533 662">Service Charge</p> <table border="1" data-bbox="369 678 577 1141"> <thead> <tr> <th>Package</th> <th>Internal Client</th> <th>External client: gov.</th> <th>External client: non-gov.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>RM 70/ surface</td> <td>RM75/ surface</td> <td>RM87/ surface</td> </tr> <tr> <td>B</td> <td>RM 62/ surface</td> <td>RM65/ surface</td> <td>RM76/ surface</td> </tr> <tr> <td>C</td> <td>RM30/ surface</td> <td>RM35/ surface</td> <td>RM38/ surface</td> </tr> <tr> <td rowspan="2">D</td> <td>SEM</td> <td>RM 145/ surface</td> <td>RM152/ surface</td> </tr> <tr> <td>FESEM</td> <td>RM320/ surface</td> <td>RM350/ surface</td> </tr> <tr> <td>E</td> <td colspan="3">Depend on distance (RM2.00/km), within Selangor, WP Kuala Lumpur & Putrajaya and time taken to complete the retrieval process (RM 100/hour)</td> </tr> <tr> <td>F</td> <td colspan="3">subjected to complexity and location of the case</td> </tr> <tr> <td>Additional cutting process</td> <td colspan="3">RM 20/ sample for larger/ hard sample</td> </tr> </tbody> </table>   <div data-bbox="600 986 824 1136" style="background-color: #4a7c9c; color: white; padding: 5px;"> <p>Contact Us Fauziana Lam In / Afiqah Omar CRU Material Properties Lab Malaysian Institute of Road Safety Research, Lot 125-126, Taman Kajang Sentral, 43000 Kajang, Selangor, Malaysia (603) 8924 9200 (ext: 445) / 444 fauziana@miros.gov.my afiqah@miros.gov.my</p> </div> <p data-bbox="869 1010 1041 1098">MATERIALOGRAPHY PREPARATION for microscopic view Laboratory Services</p>	Package	Internal Client	External client: gov.	External client: non-gov.	A	RM 70/ surface	RM75/ surface	RM87/ surface	B	RM 62/ surface	RM65/ surface	RM76/ surface	C	RM30/ surface	RM35/ surface	RM38/ surface	D	SEM	RM 145/ surface	RM152/ surface	FESEM	RM320/ surface	RM350/ surface	E	Depend on distance (RM2.00/km), within Selangor, WP Kuala Lumpur & Putrajaya and time taken to complete the retrieval process (RM 100/hour)			F	subjected to complexity and location of the case			Additional cutting process	RM 20/ sample for larger/ hard sample				
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	 <p>Background</p> <p>The goal of metallographic preparation is to obtain the true microstructure or "The True Structure", meaning an undisturbed material surface, which can be analysed in an optical (light) microscope or a Scanning Electron Microscope (SEM).</p> <p>Type of sample</p> <p>We receive wide range of materials including:</p> <ul style="list-style-type: none"> • Metal/ Metal Alloys • Non-metal (Composite & Polymer) <p>Sample Size</p> <p>Maximum size received for e-service is 0.5m x 0.5m</p>  <p>Service Flowchart</p> <pre> graph TD A[Service requested] --> B[Receiving sample] B --> C[Preparation process] C --> D[Result verification] D --> E[Payment] E --> F[Sample & report hand-over] </pre> <p>Our Services</p> <table border="1"> <thead> <tr> <th>Package</th> <th>Consulting</th> <th>Etching</th> <th>Polishing</th> <th>Micro-structure analysis</th> <th>Failure analysis</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>B</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>C</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>D</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>E</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>F</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> </tbody> </table> <p>Sample Submission Guidelines</p> <ol style="list-style-type: none"> Each sample should be properly labelled with specific ID. Sample origin should be adequately briefed. Minimum period of completion for package A&B,C is 15 working days/sample whereas other packages are subjected to discussion. Sample shall be submitted between 10am until 3pm during working days. 	Package	Consulting	Etching	Polishing	Micro-structure analysis	Failure analysis	A	•	•	•	•	•	B	•	•	•	•	•	C	•	•	•	•	•	D	•	•	•	•	•	E	•	•	•	•	•	F	•	•	•	•	•		
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3.	<p>Nama produk: CRU Unmanned Aerial Vehicle (UAV) for Aerial Photography</p> <p>Keterangan: Unmanned Aerial Vehicle (UAV) is a type of aircraft with no pilot on board. Historically, UAVs were mainly used as military utilities but nowadays have become common for other usage in terms of aerial surveillance and monitoring. The UAV unit developed by MIROS is a multi- rotor quadcopter type, specifically to assist in depth crash investigation, by the means of aerial</p>	<p>Nama:</p> <ol style="list-style-type: none"> 1. Mohd Azirahim Mohd Yusoff 2. Ahmad Noor Syukri Zainal Abidin 3. Kak D Wing <p>No Tel: 03 – 8924 9200</p> <p>Emel:</p> <ol style="list-style-type: none"> 1. azirrahim@miros.gov.my 2. ansyukri@miros.gov.my 3. kdwing@miros.gov.my 	Siap sedia untuk dipasarkan																																										

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	<p>photograph. With its capability of filming high definition video while hovering and maneuvering in the air and can be operated within a one-kilometer radius from the ground station, CRU is providing the service to conduct any surveillance or monitoring works which requires quality aerial image or aerial video capturing.</p> 		

Senarai Perundingan Penyelidikan Pusat:

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4.	<p>Nama produk: Crash Investigation & reconstruction service</p> <p>Keterangan: Provide service for crash investigation & reconstruction in order to identify in detail as many factors as possible that contribute to crashes and the resulting injuries to occupants, particularly factors that have not been previously identified. The team consists of crash analysts who use crash information to reconstruct the crash events and determine the critical values in the crash such as impact speed, travel speed, change in velocities (DV) and Energy Equivalent Speeds (EES).</p> <p>The service is open to all mode of transport and not limited to road transportation.</p>	<p>Nama: Ahmad Noor Syukri Zainal Abidin No Tel: 03 – 8924 9200 Emel: ansyukri@miros.gov.my</p>	Siap sedia untuk dipasarkan
5.	<p>Nama produk: Unmanned Aerial Vehicle (UAV) consultancy</p> <p>Keterangan: CRU team has been developing an Unmanned Aerial Vehicle (UAV), which is a multi- rotor quadcopter type to assist in depth crash investigation in Malaysia. As for</p>	<p>Nama: Mohd Azizirahim Mohd Yusoff No Tel: 03 – 8924 9200 Emel: azizirahim@miros.gov.my</p>	Siap sedia untuk dipasarkan

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	that, CRU also provides consultation of UAV development for those who are interested in this field. We have our own expert in handling and developing UAV from scratch.		