

# DACMT Courses

## Explosives Ordnance Engineering MSc/PgDip

Course No: 402/016

Aim of Course	Outline of Syllabus	Remarks
<p>The aim of the course is to provide education and training in ammunition and explosives technology for officers of the armed forces, and for scientists and engineers in government defence establishments and the defence industries. Students are taught the principles of explosives, ordnance technology with particular reference to the weapons used in land, sea and air operations.</p>	<p>Core modules:</p> <ul style="list-style-type: none"> <li>• Introduction to Explosives</li> <li>• Risk, Hazard and Safety of Explosives</li> <li>• Manufacture, Formulation of Explosives and Insensitive Munitions (1 ½ module)</li> <li>• Ammunition Systems 1 (Warheads)</li> <li>• Ammunition Systems 2 (Delivery Systems)</li> <li>• Armour System Design (½ module)</li> <li>• Advanced Explosives Science</li> <li>• Propellants, Internal Ballistics and Weapon Thermodynamics</li> <li>• Research Methodology.</li> </ul> <p>Optional Modules:</p> <ul style="list-style-type: none"> <li>• Rocket Motors and Propellants</li> <li>• Forensic Investigations of Explosives and Explosive Devices</li> <li>• Pyrotechnics</li> <li>• Explosives for Nuclear Weapons</li> <li>• Computer Modelling Tools in EOE (½ module)</li> <li>• Environmental Management (½ module)</li> <li>• Blast Loading.</li> </ul>	<p>Capacity is 20 personnel.</p>

Rank Range	Entry Standards	Duration	Qualifications gained	Frequency
	<p>IELTS level 7. Normally a 1st or 2nd class honours degree in engineering, science or mathematics or the professional equivalent.</p>	<p>One year full-time, up to five years part-time</p>		<p>1 course per year, starting in September</p>

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