

B.Sc. General Engineering Science: Defence Systems		CP	Summer	1 AT		2 WT		3 ST		Summer	4 AT		5 WT		6 ST		Summer	7 AT	
				CP	Typ	CP	Typ	CP	Typ		CP	Typ	CP	Typ	CP	Typ		CP	Typ
00 Preliminary Online Mathematics Course		WP/6			K2														
01 Mathematics		P/10																	
01.1 Elementary Calculus & Linear Algebra				5	K2														
01.2 Numerics & Optimization						5	K2												
02 Programming		P/8																	
02.1 Programming in C				4	K2														
02.2 Object Oriented Programming						4	K2												
03 Electrical Engineering		P/8																	
03.1 Electric Circuits				4	K2														
03.2 Electronic Systems						4	K2												
04 Electromagnetics		P/7							K3										
04.1 Electromagnetic Compatibility						2													
04.2 Electromagnetic Fields and Waves								5											
05 Mechanics and Materials		P/12																	
05.01 Engineering Mechanics				4	K1,5	4	K2,5												
05.02 Materials Technology				4	K2														
06 Thermal/Fluids Engineering		P/9																	
06.1 Thermodynamics						5	K2												
06.2 Fluid Dynamics								4	K2										
07 Structural Mechanics/FEM		P/4						4	K2										
08 Communication Systems		P/8										K3							
08.1 Digital Communication Systems								4											
08.2 Optical Communications										4									
09 Internetworking & Cyber Security		P/4						4	K2										
10 Sensor Systems 1		P/8										K3							
10.1 Inertial Sensors, Sensor Signals and Global Navigaton Systems										4									
10.2 RADAR and Antennas										4									
11 Sensor Systems 2		P/7																	
11.1 Estimation and Sensor Data Fusion												4	K2						
11.2 Electro-Optics												3	K2						
12 Drives & Propulsion		P/8											K3						
12.1 Electrical Drives			2 aus 3									4							
12.2 Aerospace Propulsion												4							
12.3 Combustion Engine Powered Drive Systems												4							
13 Control Systems		P/5								5	K2								
14 System Design		P/10														Alt2+Alt2			
14.1 Vehicle Dynamics			2 aus 5							5	Alt2								
14.2 Mechatronics/Multibody Simulation												5	Alt2						
14.3 Autonomous Systems														5	Alt2				
14.4 Design Methods														5	Alt2				
14.5 Quality and Knowledge Management																5	Alt2		
15 Defence Systems & Technologies 1		P/10														Alt2+Alt2			
15.1 Air And Space Systems			2 aus 6									5	Alt2						
15.2 Failure Analysis and Maintenance												5	Alt2						
15.3 Improvised Explosive Devices Disposal														5	Alt2				
15.4 Logistics														5	Alt2				
15.5 Network-Centric Warfare														5	Alt2				
15.6 Electrochemical Power Sources for Military Applications														5	Alt2				
16 Defence Systems & Technologies 2		P/16																	Alt2+Alt2
16.1 Chemical, Biological, Radio and Nuclear Protection			2 aus 3													4		4	Alt2
16.2 Naval Shipbuilding																4		4	Alt2
16.3 Systems Engineering for Land Vehicles																4		4	Alt2
17 Interdisciplinary Studies 1		P/5														Alt2+Alt2			
17.1 Procurement			2 aus 3							2,5	Alt2								
17.2 International Law												2,5	Alt2						
17.3 Transportation Law														2,5	Alt2				
18 Interdisciplinary Studies 2		P/5																	Alt2+Alt2
18.1 Tactics & Strategies																		3	Alt2
18.2 Leadership and Psychology in Organizations																		2	Alt2
19 Student's Project		WP/6																	
20 Bachelor Thesis		P/12														6	PA		
21 Language Training 1		P/8						8	LN										
22 Language Training 2		P/10														10	LN		
ΣCredit Points			180	0	21	24		29			24,5		27,5		23			25	25
							74							75					