PROGRESS IN LEVEL 3 TECHNICAL LEVEL MECHATRONIC ENGINEERING YEARS 12-13

Each of the eight modules is rated by a unique set of assessment objectives; to keep this document to a reasonable size this large range of assessment objectives have been rationalised to three broad objectives, each of which cover a wide ranging set of skills appropriate to an Engineer. Each of the eight modules is graded between Distinction, Merit & Pass. The eight modules are than aggregated by the AQA exam board to achieve a final grading as outlined below;

Overall Grading:

D*D* (112 UCAS)

D*D (104 UCAS)

DD (96 UCAS)

DM (80 UCAS)

MM (64 UCAS)

MP (48 UCAS)

PP (32 UCAS)

Module	Grading:			
	Distinction	Candidates recall and apply high level knowledge, skills and understanding from across the pecification content in a range of engineering situations.	Candidates plan and carry out a wide range of investigations and tasks in which they analyse engineering issues and problems at a high level and gather, record and analyse relevant information, data and other forms of evidence in the areas of study identified in the specification content in a range of engineering situations.	Candidates integrate knowledge, skills and understanding at a high level to independently analyse an engineering situation or problem; design, produce and communicate a response and evaluate outcomes and approach, making contributions to teamwork.
	Merit	Candidates recall and apply good knowledge, skills and understanding from across the specification content in a range of engineering situations.	Candidates plan and carry out a range of investigations and tasks in which they analyse engineering issues and problems and gather, record and analyse relevant information, data and other forms of evidence in the areas of study identified in the specification content in a range of engineering situations.	Candidates integrate knowledge, skills and understanding to independently analyse an engineering situation or problem; design, produce and communicate a response and evaluate outcomes and approach, making contributions to teamwork.

	Pass	Candidates recall and apply basic knowledge, skills and understanding from across the specification content in a range of engineering situations.	Candidates plan and carry out basic investigations and tasks in which they analyse engineering issues and problems and gather, record and analyse relevant information, data and other forms of evidence in the areas of study identified in the specification content in a range of engineering situations.	Candidates integrate basic knowledge, skills and understanding to independently analyse an engineering situation or problem; design, produce and communicate a response and evaluate outcomes and approach, making some contributions to teamwork but with others guiding them.
Unit 1: Materials Science	D	🟩 (green)		
	M	🟨 (yellow)		
	P	🟧 (orange)		
Unit 2: Mechanical Systems	D			🟩 (green)
	M			🟨 (yellow)
	P			🟧 (orange)
Unit 3: Mathematics for Engineers	D	🟩 (green)		

Unit	Level			
	M	🟨		
	P	🟧		
Unit 4: Engineering Design	D	🟩	🟩	🟩
	M	🟨	🟨	🟨
	P	🟧	🟧	🟧
Unit 5: Production and Manufacturing	D		🟩	🟩
	M		🟨	🟨
	P		🟧	🟧
Unit 6: Mechatronic Project Management	**D**	🟩	🟩	

	M	🟨	🟨	
	P	🟧	🟧	
Unit 7: Mechatronic Control Systems	**D**	🟩	🟩	🟩
	M	🟨	🟨	🟨
	P	🟧	🟧	🟧
Unit 8: Programming for Engineers	**D**	🟩		
	M	🟨		
	P	🟧		