

Luminus BTEC Level 5 Higher National Diploma in Automotive Engineering

2024-2025 | Advisory Plan (starting 2023 intake)



		First Semester					Second Semester						Summer Semester					
	Unit Code	Unit Title	Credit Hrs.	Theory Hrs.	Prct. Hrs.	Fin. Crd.	Unit Code	Unit Title	Credit Hrs.	Theory Hrs.	Prct. Hrs.	Fin. Crd.	Unit Code	Unit Title	Credit Hrs.	Theory Hrs.	Prct. Hrs.	Fin. Crd.
		English Language Level 1	3	4	2	3		English Language Level 2	3	4	2	3		Optional Unit 2: Level 4	4	2	2	3
R 1	CSD-01	Study Skills	3	3	0	3	CSD-02	Career Readiness	3	3	0	3	5006	Further Engineering Mathematics	4	2	2	3
YEA	4063	Engineering Mechanics and Materials	4	2	2	3		Optional Unit 1: Level 4	4	2	2	3						
	4002	Engineering Mathematics	4	2	2	3	4091	Automotive Fundamentals	4	2	2	3						
	4003	Engineering Science I	4	2	2	3	4092	Vehicle Dynamics and Performance	4	2	2	3						
		Total	18	13	8	15		Total	18	13	8	15		Total	8	13	8	6

First Semester						Second Semester						Summer Semester						
	Unit Code	Unit Title	Credit Hrs.	Theory Hrs.	Prct. Hrs.	Fin. Crd.	Unit Code	Unit Title	Credit Hrs.	Theory Hrs.	Prct. Hrs.	Fin. Crd.	Unit Code	Unit Title	Credit Hrs.	Theory Hrs.	Prct. Hrs.	Fin. Crd.
		English Language Level 3	3	4	2	3		English Language Level 4	3	4	2	3	5041	Engineering Project	4	2	2	3
R 2	CSD-03	Entrepreneurship	3	3	0	3	FT-AU-01	Field Training	3	0	9	3		Optional Unit 3: Level 5	4	2	2	3
YEA		Professional Engineering Practice (Pearson-set) *	4	2	2	3		Professional Engineering Management (Pearson-set) *	4	2	2	3						
	5059	Automotive Aerodynamics	4	2	2	3		Optional Unit 1: Level 5	4	2	2	3						
	5058	Automotive Structures and Materials	4	2	2	3		Optional Unit 2: Level 5	4	2	2	3						
		Total	18	13	8	15		Total	18	10	17	15		Total	8	4	4	6

* Pearson-Set units for both Level 4 and Level 5 must be studied in the same academic year to ensure that the same THEME is applied.



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Unit Code	Unit Name	Credit Hours	Theory Hours	Practical Hours	Pearson Level
4 Units: Core - I	Mandatory				
4063	Engineering Mechanics and Materials	4	2	2	level 4
4002	Engineering Mathematics	4	2	2	level 4
4003	Engineering Science I	4	2	2	level 4
4062	Professional Engineering Practice (Pearson-set)	4	2	2	level 4
2 Units: Special	ist - Mandatory				
4091	Automotive Fundamentals	4	2	2	level 4
4092	Vehicle Dynamics and Performance	4	2	2	level 4
2 Units: Option	al (selected from the list below)				
2 Units: Option 4111	Powertrain and Hybrid Vehicles	4	2	2	level 4
4112	Vehicle Repair and Diagnostics	4	2	2	level 4
4011	Fluid Mechanics	4	2	2	level 4
4013	Fundamentals of Thermodynamics and Heat Transfer	4	2	2	level 4
4115	Vehicle Electrical and Electronics	4	2	2	level 4
4061	Programming for Engineers	4	2	2	level 4
2 Units: College	Requirements - Mandatory				l
CSD-01	Study Skills	3	3	0	
CSD-02	Career Readiness	3	3	0	
2 Units: English	Language Levels - Mandatory				<u> </u>
	English Language Level 1	3	4	2	
	English Language Level 2	3	4	2	
Pre-A1-ID	Foundation English				
A1-ID	Elementary Englsih				
A2-ID	Pre-Intermediate English				
B1-ID	Intermediate English				
B2-ID	Upper Intermediate English				
C1-IL	Advanced English				
C2-IL	Proficiency (English)				

	Unit Code	Unit Name	Credit	Theory Hours	Practical Hours	Pearson Level
2	Units: Core -	Mandatory				
	5041	Engineering Project	4	2	2	level 5
	5002	Professional Engineering Management (Pearson-set)	4	2	2	level 5
2	Units: Special	list - Mandatory				
	5006	Further Engineering Mathematics	4	2	2	level 5
	5058	Automotive Structures and Materials	4	2	2	level 5
	5059	Automotive Aerodynamics	4	2	2	level 5
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rear	Units: Option	al (selected from the list below)		1		
ו	5063	Further Hybrid and Electric Vehicle Technologies	4	2	2	level 5
	5067	Vehicle Operations	4	2	2	level 5
	5069	Vehicle Systems and Technology	4	2	2	level 5
	5005	Further Thermodynamics	4	2	2	level 5
	5048	Sensors and Automation	4	2	2	level 5
			4	2	2	level 5
2	Units: College	Requirements - Mandatory				
	CSD-03	Entrepreneurship	3	3	0	
	FT-AU-01	Field Training	3	0	9	
2	Units: English	Language Levels - Mandatory		1		
		English Language Level 3	3	4	2	
		English Language Level 4	3	4	2	

For English Language Levels, learners attend 2 levels each year. Starting level (for English Language Level 1) is decided based on a placement test. Learners will then progress to the next level respectively until they complete 4 levels in total.