

Luminus BTEC Level 5 Higher National Diploma in Engineering (Electrical & Electronic)

[Programme Specification](#)



2024-2025 | Study Plan

Year 1	Luminus BTEC Level 4 Higher National Certificate (HNC) in Engineering (Electrical & Electronic)					
	Unit Code	Unit Name	Credit Hours	Theory Hours	Practical Hours	Pearson Level
	4 Units: Core - Mandatory					
	4001	Engineering Design	4	2	2	level 4
	4002	Engineering Mathematics	4	2	2	level 4
	4003	Engineering Science I	4	2	2	level 4
	4004	Managing a Professional Engineering Project (Pearson-set)	4	2	2	level 4
	1 Unit: Specialist - Mandatory					
	4019	Electrical and Electronic Principles	4	2	2	level 4
	3 Units: Optional (selected from the list below)					
	4020	Digital Principles	4	2	2	level 4
	4021	Electrical Machines	4	2	2	level 4
	4023	Computer-Aided Design and Manufacture (CAD/CAM)	4	2	2	level 4
	4061	Programming for Engineers	4	2	2	level 4
	2 Units: College Requirements - Mandatory					
	CSD-01	Study Skills	3	3	0	
	CSD-02	Career Readiness	3	3	0	
	2 Units: English Language Levels - Mandatory					
		English Language Level 1	3	4	2	
		English Language Level 2	3	4	2	
	Pre-A1-ID	Foundation English				
	A1-ID	Elementary English				
	A2-ID	Pre-Intermediate English				
	B1-ID	Intermediate English				
	B2-ID	Upper Intermediate English				
	C1-ID	Advanced English				
	C2-ID	Proficiency (English)				

Year 2	Luminus BTEC Level 5 Higher National Diploma (HND) in Engineering (Electrical & Electronic)					
	Unit Code	Unit Name	Credit Hours	Theory Hours	Practical Hours	Pearson Level
	3 Units: Core - Mandatory					
	5001	Research Project	8	2	6	level 5
	5002	Professional Engineering Management (Pearson-set)	4	2	2	level 5
	3 Units: Specialist - Mandatory					
	5006	Further Engineering Mathematics	4	2	2	level 5
	5011	Industrial Power, Electronics and Storage	4	2	2	level 5
	5019	Further Electrical, Electronic and Digital Principles	4	2	2	level 5
	2 Units: Optional (selected from the list below)					
	5012	Industrial Systems	4	2	2	level 5
	5016	Lean Manufacturing	4	2	2	level 5
	5018	Sustainability	4	2	2	level 5
	2 Units: College Requirements - Mandatory					
	CSD-03	Entrepreneurship	3	3	0	
	FT-EG-02	Field Training	3	0	9	
	2 Units: English Language Levels - Mandatory					
		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.

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YEAR 1	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 3: Level 4	4	2	2	3
	CSD-01	Study Skills	3	3	0	3	CSD-02	Career Readiness	3	3	0	3	5006	Further Engineering Mathematics	4	2	2	3
	4001	Engineering Design	4	2	2	3		Optional Unit 1: Level 4	4	2	2	3						
	4002	Engineering Mathematics	4	2	2	3	4019	Electrical and Electronic Principles	4	2	2	3						
	4003	Engineering Science I	4	2	2	3		Optional Unit 2: Level 4	4	2	2	3						
	Total		18	13	8	15	Total		18	13	8	15	Total		8	4	4	6

YEAR 2	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	5001	Research Project	8	2	6	6
	CSD-03	Entrepreneurship	3	3	0	3	FT-EG-02	Field Training	3	0	9	3						
	4004	Managing a Professional Engineering Project (Pearson-set) *	4	2	2	3	5002	Professional Engineering Management (Pearson-set) *	4	2	2	3						
		Optional Unit 1: Level 5	4	2	2	3		Optional Unit 2: Level 5	4	2	2	3						
	5011	Industrial Power, Electronics and Storage	4	2	2	3	5019	Further Electrical, Electronic and Digital Principles	4	2	2	3						
	Total		18	13	8	15	Total		18	10	17	15	Total		8	2	6	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.