

**AY2025-2026**  
**CURRICULUM FOR COMPUTER ENGINEERING**

**SUMMARY OF ACADEMIC UNIT REQUIREMENT**

Year of Study	Core	MPE	ICC			BDE	Total AU
			Common - Core	Professional Series	Care, Serve, Learn		
Y1	26	0	6	3	0	0	35
Y2	27	0	8	0	3	3	41
Y3	4	6	0	12	0	6	28
Y4	8	12	0	1	0	11	32
<b>Total</b>	<b>65</b>	<b>18</b>	<b>14</b>	<b>16</b>	<b>3</b>	<b>20</b>	<b>136</b>

**Recommended Course Schedule**

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC1003	Introduction to Computational Thinking & Programming	P-Series	3	Nil
SC1004	Linear Algebra for Computing	Core	4	SC1003 (co-req)
SC1005	Digital Logic	Core	3	Nil
SC1013	Physics For Computing	Core	2	Nil
EG1001	Engineers in Society	Core	2	Nil
CC0003	Ethics & Civics in a Multicultural World	C-Core	2	Nil
CC0015	Health & Wellbeing	C-Core	2	Nil
HW0001	Introduction to Academic Communication	-	-	For student failed QET
HW0002	Calculus	-	-	For student not done Calculus
<b>TOTAL</b>			<b>18</b>	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC1006	Computer Organisation & Architecture	Core	3	SC1005 (co-req)
SC1007	Data Structures & Algorithms	Core	3	SC1003
SC1008	C and C++ Programming	Core	3	SC1003
SC2000	Probability & Statistics for Computing	Core	3	Nil
MH1812	Discrete Mathematics	Core	3	Nil
CC0001	Inquiry & Communication in an Interdisciplinary World	C-Core	2	Nil
<b>TOTAL</b>			<b>17</b>	
<b>Year 1 Total AU</b>			<b>35</b>	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC2001	Algorithm Design & Analysis	Core	3	SC1007 & MH1812
SC2002	Object Oriented Design & Programming	Core	3	SC1003 OR SC1007
SC2006	Software Engineering	Core	3	SC2002 (co-req)
SC2008	Computer Network	Core	3	SC2000 & SC1004
SC2107	Microprocessor System Design and Development	Core	3	SC1006
CC0007	Science & Technology for Humanity	C-Core	3	Nil
ML0004	Career Design & Workplace Readiness in the V.U.C.A World	C-Core	2	Nil
<b>TOTAL</b>			<b>20</b>	

YEAR 2 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-requisite/Remarks
SC2103	Digital Systems Design	Core	3	SC1005
SC2005	Operating Systems	Core	3	SC1006 & SC1007
SC2104	Sensors, Interfacing & Digital Control	Core	3	SC1006
SC3102	Signals, Systems and Transforms	Core	3	SC1004
CC0006	Sustainability: Society, Economy & Environment	C-Core	3	Nil
	Broadening and Deepening Elective	BDE	3	Refer to Class Schedule
CSL	CSL (service learning course) - Part 1	CSL	3	(Continue in Y3S1)
<b>TOTAL</b>			<b>21</b>	
<b>Year 2 Total AU</b>			<b>41</b>	

