

C-26 CPS Cyber Physical Systems and Security Template

I Year		Credits	III semester		Credits	IV Semester		Credits	V Semester		Credits	VI Semester		20
Sub_Code	Sub Name		Sub Code	Sub Name		Sub_Code	Sub Name		Sub Code	Sub Name		Sub Code	Sub Name	
HU-101	Basic English	2	SC-301	Advance Engineering Mathematics	3	EC-401	Microcontrollers	3	ME-501	Techno Entrepreneurship & Startups	3	CPS-601	Industrial Training (20 credits)	
SC-102	Engineering Mathematics	3	EC-302	Digital Electronics	3	CPS-402	Embedded Systems	3	CPS-502	Security of Cyber Physical Systems	3			
SC-103	Engineering Physics	3	CS-303	Data Structures through C	3	CPS-403	IoT and Industry 4.0	3	CPS-503	Digital Forensics	3			
SC-104	Engineering Chemistry	3	CPS-304	Basics Of Cyber Physical Systems	3	CPS-404	Network Security	3	CPS-504 A / CPS-504 B	A) Semiconductor packaging & testing B) Cloud Computing & Big Data	3			
ES-105	Semiconductor Devices & Circuits	3	CS-305	Fundamentals of AI & ML	3	CS-405	Python Programming	3	CPS-505EA ME-505EB	A) Digital circuit Design using verilog HDL B) System Engineering	3			
CPS-106	Computer Fundamentals & C Programming	3	EC-306	Digital Electronics Lab	2	EC-406	Microcontroller Programming Lab	2	CPS-506	Digital Forensics Lab	2			
ME-107	Engineering Drawing with CAD	2	CS-307	Data Structures through C Lab	2	CPS-407	Network Security & Linux lab	2	CPS- 507	Digital Circuit Design Using Verilog HDL Lab	2			
ES-108	Semiconductor Devices & Circuits Lab	2	CPS-308	Internet of Things Lab	2	CS-408	Python Programming Lab	2	CPS-508	Testing & Verification of Cyber Physical Systems Lab	2			
SC-109	Science Lab	2	CPS-309	Fundamentals of AI & ML Lab	2	CPS-409	Web Designing Lab	2	ME-509	Innovation & Design Thinking Lab	2			
CPS-110	Computer Fundamentals & C Programming Lab	2	HU-310	Communications & Life Skills Lab	2	ES-410	PCB Design & Hardware Debugging Lab	2	CPS- 510	Project Work	2			
	Total	25		Total	25		Total	25		Total	25		Total	20

