










Certification Course Details

Offered by

Dept. of Electronics and Communication Engineering
For Y17 & Y18 Batch A. Y. 2020-21 Even Semester

Dear students, The following are the list of certification courses offered for the current semester

Sl.	Specialization	Skill Set	Course Name
1	NA	Digital Circuit Design with Boolean operations, String Operations and Application. Graphical programming by using looping concept, Use of Feedback and Shift Register, Array concept and Plotting of Data. Design and development Electronics appliances and gaming prototype	NI CLAD
2	IoT	Python scripting for analytics, data handling in analytics	IOT Analytics & Data Sciences 
3		R Programming, Data Visualization for IoT, Fog Computing.	Advanced IOT Analytics with Machine Learning 
4	VLSI	Classes usage, mail box and queues, SV assertions, Memory Test bench	Verification using system Verilog 
5		Transaction Level Modelling, Develop Driver, Sequencer and Monitor and Agent	Fundamentals of UVM (Universal Verification Methodology) 
6		APB based Memory design and Verification, Designing finite state machine	Electronic circuit & Analog Layout Design 
7		Design of CMOS Standard Cells & Analysis, Design & Analysis of CMOS Logic Cells for the given specifications, Standard Cell Layout Design and Analysis	CMOS Analog Circuit & Layout Design 
8		Timing slack calculations, on exceptions and time borrowing	Synthesis and Timing analysis 
9		Analysing clock tree synthesis, routing, Fixing timing and physical violations	Physical Design and Verification 
10		Internals and hardware configurations of Timer, Modes, ADC & Comparator, SPI and I2C, configuration, RTC interface	VLSI & Embedded System Applications 

11	Data Communication	A basic understanding of small and medium-sized networks, network technologies, and the ability to assist the design of small and medium-sized networks, and implement the designs using Huawei routing and switching devices. Network fundamentals, connection methods of popular networks, network construction, troubleshooting of common network faults, Installation and commissioning of Huawei routing and switching devices.	Huawei Certified ICT Associate Routing and Switching (HCIA-R&S) 
12	RF & Microwave	Electromagnetic propagation, Design and analysis of microwave components	RF Systems-Modelling, Design and Simulation 
13		Design & Simulation of Split ring resonator and bandpass filter, characterization array of antennas & Reconfigurable antennas	Fabrication, Testing and Validation 
14	Data Computing	AI development history, the Huawei Ascend AI system, the full-stack all-scenario AI strategy and the algorithms related to traditional machine learning and deep learning.	Huawei Certified ICT Associate Artificial Intelligence (HCIA-AI) 
15		Artificial Intelligence Engineer	 Get Certified. Get Ahead.
16		Automation Test Engineer	 Get Certified. Get Ahead.
17		Data Science Certification Training	 Get Certified. Get Ahead.
18		Data Science with Python Training Course	 Get Certified. Get Ahead.
19		COE Program in Cyber Security/- Network Security Associate/ Network Security Professional	COE Program in Cyber Security/- Network Security Associate/ Network Security Professional 

For any further queries kindly contact certification course in-charges.

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