

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
Department of Electronics and Communication Engineering

NPTEL EQUIVALENT COURSES FOR MINOR DEGREE 2021-2022 (July – December)

Date: 17-05-2021

Honors Degree

The Tentative list of courses for Honors Degree approved by Electronics and communication Engineering Department BoS members are as follows:

NPTEL/ COURSERA EQUIVALENT COURSES:

Sno	Course Code	Course Name	Institute	Credits	Duration	Start date	Exam date	Nptel/Coursera links
1	noc21-ee82	Applied Electromagnetics For Engineers	IITK	3	12 Weeks	July 26, 2021	October 15, 2021	https://nptel.ac.in/courses/108/104/108104099/
2	noc21-ee108	Principles and Techniques of Modern Radar Systems	IITKGP	3	12 Weeks	July 26, 2021	October 15, 2021	https://nptel.ac.in/courses/108/105/108105154/
3	noc21-ee111	Advanced Microwave Guided-Structures and Analysis	IITKGP	3	12 Weeks	July 26, 2021	October 15, 2021	https://onlinecourses.nptel.ac.in/noc21_ee111/preview
4	CN	Fundamentals of Network Communication	University of Colorado	1.25	5 Weeks	Considered from registered Date		https://www.coursera.org/learn/fundamentals-network-communications
5	CN	Peer-to-Peer Protocols and Local Area Networks	University of Colorado	1.25	5 Weeks	Considered from registered Date		https://www.coursera.org/learn/peer-to-peer-protocols-local-area-networks

Sno	Course Code	Course Name	Institute	Credits	Duration	Start date	Exam date	Nptel/Coursera links
6	CN	Packet Switching Networks and Algorithms	University of Colorado	1.25	5 Weeks	Considered from registered Date		https://www.coursera.org/learn/packet-switching-networks-algorithms
7	20CSMC S21	Introduction to Industry 4.0 and Industrial Internet of Things	IITKGP	3	12 Weeks	July 26, 2021	October 23, 2021	https://onlinecourses.nptel.ac.in/noc21_cs66/preview
8	20CSMI OT18	Introduction and programming with IoT Boards	Korea university	1.25	5 Weeks	-	-	https://www.coursera.org/learn/introduction-iot-boards
9	ECEA 5317	Real-Time Mission-Critical Systems Design	University of Colorado Boulder	1	4 Weeks			https://www.coursera.org/learn/real-time-mission-critical-systems-design?specialization=real-time-embedded-systems
10	ECEA 5318	Real-Time Project for Embedded Systems	University of Colorado Boulder	1	4 Weeks			https://www.coursera.org/learn/real-time-project-embedded-systems?specialization=real-time-embedded-systems
11	IOT	The Arduino Platform and C Programming	University of California	1	4 Weeks			https://www.coursera.org/learn/arduino-platform?specialization=iot
12	IOT	Interfacing with the Arduino	University of California	1	4 Weeks			https://www.coursera.org/learn/interface-with-arduino

Sno	Course Code	Course Name	Institute	Credits	Duration	Start date	Exam date	Nptel/Coursera links
13	CC	Cloud Computing Concepts, Part 1	University of Illinois at Urbana-Champaign	1.25	5 Weeks			https://www.coursera.org/learn/cloud-computing?specialization=cloud-computing
14	CC	Cloud Computing Concepts, Part 2	University of Illinois at Urbana-Champaign	1.25	5 Weeks			https://www.coursera.org/learn/cloud-computing-2?specialization=cloud-computing
15	noc21-ee102	Signal Processing for mm Wave communication for 5G and beyond	IITKGP	3	12 Weeks	July 26, 2021	October 15, 2021	https://onlinecourses.nptel.ac.in/noc21_ee102/preview
16	noc21-ee76	Millimeter Wave Technology	IITKGP	2	8 Weeks	September 17, 2021	September 26, 2021	https://nptel.ac.in/courses/117/105/117105139/
17	noc21-ee90	Enclosure design of electronics equipment	IISc	3	12 Weeks	October 15, 2021	October 24, 2021	https://nptel.ac.in/courses/117108140/
18	noc21-ee97	System Design Through VERILOG	IITG	2	8 Weeks	September 17, 2021	September 26, 2021	https://onlinecourses.nptel.ac.in/noc21_ee97/preview
19	noc21-ee98	Integrated Photonics Devices and Circuits	IITM	3	12 weeks	October 15, 2021	October 24, 2021	https://onlinecourses.nptel.ac.in/noc21_ee97/preview
20	ECEA 5362	FPGA Softcore Processors and IP Acquisition	University of Colorado Boulder	1	4 weeks	Considered from registered Date		https://www.coursera.org/learn/fpga-softcore-processors-ip
21	ECEA 5361	Hardware Description Languages for FPGA Design	University of Colorado Boulder	1	4 weeks	Considered from registered Date		https://www.coursera.org/learn/fpga-hardware-description-languages?specialization=fpga-design
22	ECEA 5363	FPGA Capstone: Building FPGA Projects	University of Colorado Boulder	1	4 weeks	Considered from registered Date		https://www.coursera.org/learn/capstone-fpga-design