Electronics and Communication Engineering

Electronics and Communication Engineering department is offering **"Honours"** and **"Additional Minor Engineering"** degree under the following rules and eligibility criteria.

Students, who have taken admission on or after 2018-19 academic year, will be eligible to get Under Graduate Degree with **"Honours"** or **"Additional Minor Engineering",** if he/she completes an additional 20 credits through MOOCs/NPTEL/Coursera/ any other on-line courses apart from 160 academic credits.

INSTRUCTIONS FOR MINOR OR HONOURS DEGREE:

1. For **Additional Minor Engineering,** a student has to earn at least twenty (20) Additional credits from professional courses.
2. A Student can choose the courses which were not studied earlier in the previous semester. Further the courses should not be present in the curriculum of the forthcoming semesters.
3. For "Additional Minor Engineering", a student has to earn additional credits from their discipline.
4. Credits for 4 weeks course is 1, for 8 weeks course is 2, for 12 weeks course is 3.
5. A student must ensure that he/she shall earn these additional credits before the completion of the regular course.
6. It is the student's responsibility for registering the courses through ONLINE and the required registration fee shall be borne by the respective student.
7. Students have to register for the courses with the approval of Head of the Department.
8. A student is eligible to opt either for **"Honours"** or **"Additional Minor Engineering", not eligible for the both**.

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

NPTEL EQUIVALENT COURSES FOR MINOR DEGREE 2022-2023 (Jan – April)

Date: 01-01-2023

Honors Degree

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

NPTEL EQUIVALENT COURSES

Sno	Course Code	Course Name	Institute	Credits	Duration	Start date	Exam date	Nptel/Coursera links
1	noc23-ee07	CMOS Digital VLSI Design	IITR	2	8 Weeks	January 23, 2023	March 17, 2023	https://onlinecourses.nptel.ac.in/noc23_ee07
2	noc23-ee09	A brief introduction of Micro - Sensors	IITM	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee09
3	noc23-ee18	Microwave Integrated Circuits	IITB	2	8 Weeks	January 23, 2023	March 17, 2023	https://onlinecourses.nptel.ac.in/noc23_ee18
4	noc23-ee24	Electronics equipment integration and Prototype building	IISc	2	8 Weeks	January 23, 2023	March 17, 2023	https://onlinecourses.nptel.ac.in/noc23_ee24
5	noc23-ee25	Architectural Design of Digital Integrated Circuits	IIEST	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee25

6	noc23-ee26	Recent Advances in Transmission Insulators	IISc	1	4 Weeks	January 23, 2023	February 17, 2023	https://onlinecourses.nptel.ac.in/noc23_ee26

Sno	Course Code	Course Name	Institute	Credits	Duration	Start date	Exam date	Nptel/Coursera links
7	noc23-ee32	Foundations of Wavelets and Multirate Digital Signal Processing	IITB	1	4 Weeks	January 23, 2023	February 17, 2023	https://onlinecourses.nptel.ac.in/noc23_ee32
`8	noc23-ee35	Semiconductor device modeling and Simulation	IITKGP	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee35
9	noc23-ee41	Advanced Neural Science for Engineers	IISc	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee41
10	noc23-ee44	VLSI Signal Processing	IITKGP	2	8 Weeks	February 20, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee44
11	noc23-ee45	Analysis And Design Principles Of Microwave Antennas	IITKGP	2	8 Weeks	February 20, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee45
12	noc23-ee46	Evolution Of Air Interface Towards 5G	IITKGP	2	8 Weeks	February 20, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee46
13	noc23-ee61	Optical Wireless Communications for Beyond 5G Networks and IoT	IIITD	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee61

Sno	Course Code	Course Name	Institute	Credits	Duration	Start date	Exam date	Nptel/Coursera links
14	noc23-ee65	Op-Amp Practical Applications: Design, Simulation and Implementation	IISc	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee65
15	noc23-ee69	Millimeter Wave Technology	IITKGP	2	8 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee74
16	noc23-ee74	Analog Circuits And Systems Through SPICE Simulation	IITKGP	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc22_ee72/preview
17	noc23-ee75	Spread Spectrum Communications And Jamming	IITKGP	3	12 Weeks	January 23, 2023	April 14, 2023	https://onlinecourses.nptel.ac.in/noc23_ee75
18	noc22-ee78	Basics of software defined Radios	IITR	1	4 weeks	Jul 25, 2022	Aug 19, 2022	https://onlinecourses.nptel.ac.in/noc22_ee78/preview
19	noc22-ee119	Pattern recognition and Application	IITKGP	3	12 Weeks	Jul 25, 2022	Oct 14, 2022	https://onlinecourses.nptel.ac.in/noc22_ee119/preview
20	noc22-ee102	Signal Processing for mm Wave communication for 5G and beyond	IITKGP	3	12 Weeks	Jul 25, 2022	Oct 14, 2022	https://onlinecourses.nptel.ac.in/noc22_ee102/preview