

## **ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT**

### **SHORT TERM PROGRAMMES : 01.04.2020 to 31.03.2021**

Sr. No	O. Plan No.	Course Title	Level	Start Date	End Date	Venue/ Beneficiary State	Course Coordinator	No. of Participants
1.	ICTO-07	Latest Wireless and Computing Technologies	Poly./ Engg. Colleges/Ind./ Students, Others	14.04.2020	18.04.2020	NITTTR CHD/ <b>National Level</b>	BSD/GS	408
2.	ICTO-16	Low Power VLSI Design	Poly./ Engg. Colleges/Ind./ Students, Others	20.04.2020	24.04.2020	NITTTR CHD/ <b>National Level</b>	SSG/BR	388
3.	ICTO-21	Image and Embedded Processing	Poly./ Engg. Colleges/Ind./ Students, Others	27.04.2020	01.05.2020	NITTTR CHD/ <b>National Level</b>	AK/KS	324
4.	ICTO-51	Academic Leadership Enhancement in Technical Institutions	Poly./ Engg. Colleges/Ind./ Students, Others	04.05.2020	08.05.2020	NITTTR CHD/ <b>National Level</b>	SSG/BSD	703
5.	ICTO-52	Images and Embedded Processing	Poly./ Engg. Colleges/Ind./ Students, Others	11.05.2020	15.05.2020	NITTTR CHD/ <b>National Level</b>	AK/KS	713
6.	ICTO-53	Technological Interventions using Wireless Communication	Poly./ Engg. Colleges/Ind./ Students, Others	18.05.2020	22.05.2020	NITTTR CHD/ <b>National Level</b>	BSD/GS	728
7.	ICTO-54	Research Trends in VLSI Design	Poly./ Engg. Colleges/Ind./ Students, Others	25.05.2020	29.05.2020	NITTTR CHD/ <b>National Level</b>	SSG/BR	1033
8.	ICTO-92	VLSI Physical Design Techniques	Poly./ Engg. Colleges/Ind./ Students, Others	15.06.2020	19.06.2020	NITTTR CHD/ <b>National Level</b>	SSG/BR	154
9.	ICTO-93	Advances in Antenna Design Techniques and Simulations using CST Studio Suite	Poly./ Engg. Colleges/Ind./ Students, Others	22.06.2020	26.06.2020	NITTTR CHD/ <b>National Level</b>	BSD	327
10.	ICTO-100	Nanoelectronics Devices and Circuits Design	Poly./ Engg. Colleges/Ind./ Students, Others	06.07.2020	10.07.2020	NITTTR CHD/ <b>National Level</b>	SSG/BR	328
11.	ICTO-111	Antenna Design Techniques and Software Simulation using HFSS	Poly./ Engg. Colleges/Ind./ Students, Others	13.07.2020	17.07.2020	NITTTR CHD/ <b>National Level</b>	BSD	193
12.	ICTO-116	Basic MATLAB Programming	Poly./ Engg. Colleges/Ind./ Students, Others	20.07.2020	24.07.2020	NITTTR CHD/ <b>National Level</b>	AK	146
13.	ICTO-117	Image Processing using MATLAB	Poly./ Engg. Colleges/Ind./ Students, Others	27.07.2020	31.07.2020	NITTTR CHD/ <b>National Level</b>	AK	87
14.	ICTO-131	Embedded World	Poly./ Engg. Colleges/Ind./ Students, Others	27.07.2020	31.07.2020	NITTTR CHD/ <b>National Level</b>	KS	43
15.	ICTO-141	Digital and Analog VLSI Design	Poly./ Engg. Colleges/Ind./ Students, Others	03.08.2020	07.08.2020	NITTTR CHD/ <b>National Level</b>	BR/SSG	124
16.	ICTO-140	Latest Wireless Technologies	Poly./ Engg. Colleges/Ind./ Students, Others	10.08.2020	14.08.2020	NITTTR CHD/ <b>National Level</b>	GS	144
17.	ICTO-137	Nanoelectronics Devices and Circuits	Poly./ Engg. Colleges/Ind./ Students, Others	17.08.2020	21.08.2020	NITTTR CHD/ <b>National Level</b>	BR/SSG	75
18.	ICTO-160	Industry Partnered online STC on IoT and LoRaWAN Technology using Arduino	Poly./ Engg. Colleges/Ind./ Students, Others	17.08.2020	21.08.2020	NITTTR CHD/ <b>National Level</b>	BSD	28

19.	ICTO-179	Digital Signal Processing Fundamentals	Poly./ Engg. Colleges/Ind./ Students, Others	24.08.2020	28.08.2020	NITTTR CHD/ <b>National Level</b>	AK	18
20.	ICTO-139	IoT & Embedded Systems	Poly./ Engg. Colleges/Ind./ Students, Others	24.08.2020	28.08.2020	NITTTR CHD/ <b>National Level</b>	KS	117
21.	ICTO-207	VLSI Design Challenges and Opportunities	Poly./ Engg. Colleges/Ind./ Students, Others	21.09.2020	25.09.2020	NITTTR CHD/ <b>National Level</b>	SSG/BR	20
22.	ICTO-212	Biomedical Instrumentation and Applications	Poly./ Engg. Colleges/Ind./ Students, Others	28.09.2020	02.10.2020	NITTTR CHD/ <b>National Level</b>	AK	07
23.	ICTO-216	IoT and Reconfigurable WSNs	Poly./ Engg. Colleges/Ind./ Students, Others	28.09.2020	02.10.2020	NITTTR CHD/ <b>National Level</b>	KS	13
24.	ICTO-SP-18	ATAL-FDP on Flexible and Wearable Antennas : Recent Advancements, Fabrication Techniques and Applications (Sub-Thrust Area : Wearable Devices)	Poly./ Engg. Colleges/Ind./ Students, Others	12.10.2020	16.10.2020	NITTTR CHD/ <b>National Level</b>	BSD	143
25.	ICTO-214	ECE Virtual Lab Practices using Free Simulators	Poly./ Engg. Colleges/Ind./ Students, Others	19.10.2020	23.10.2020	NITTTR CHD/ <b>National Level</b>	BSD	08
26.	ICTO-208	Mobile Broadband Transformation	Poly./ Engg. Colleges/Ind./ Students, Others	19.10.2020	23.10.2020	NITTTR CHD/ <b>National Level</b>	GS	18
27.	ICTO-233	Digital Filter Design using MATLAB	Poly./ Engg. Colleges/Ind./ Students, Others	16.11.2020	20.11.2020	NITTTR CHD/ <b>National Level</b>	AK	08
28.	ICTO-234	PLDs and Embedded Systems	Poly./ Engg. Colleges/Ind./ Students, Others	04.01.2021	08.01.2021	NITTTR CHD/ <b>National Level</b>	KS	08
29.	ICTO-269	Image Processing using MATLAB	Poly./ Engg. Colleges/Ind./ Students, Others	01.02.2021	12.02.2021	NITTTR CHD/ <b>National Level</b>	AMK	11
30.	ICTO-245	Teaching and Learning for NBA Accreditation in Technical Education	Poly./ Engg. Colleges/Ind./ Students, Others	08.02.2021	12.02.2021	NITTTR CHD/ <b>National Level</b>	BR/PV	59
31.	ICTO-270	Free and Open Source Software (FOSS) Tools for Effective Teaching – Learning	Poly./ Engg. Colleges/Ind./ Students, Others	15.02.2021	19.02.2021	NITTTR CHD/ <b>National Level</b>	BS/GS	43
32.	ICTO-280	4G and 5G Communication	Poly./ Engg. Colleges/Ind./ Students, Others	22.03.2021	26.03.2021	NITTTR CHD/ <b>National Level</b>	GS	09
33.	ICTO-281	Embedded System Design	Poly./ Engg. Colleges/Ind./ Students, Others	22.03.2021	26.03.2021	NITTTR CHD/ <b>National Level</b>	KS	21

#### WORKSHOPS – ONLINE - 2020-21

Sr. No.	O. Plan No.	Programme Title	Dept.	State	Start Date	Ending Date	Venue	Coordinator Details
1.	ICTO-W-6	Online Quiz for B.Tech Students of various Engg. Colleges on Electronics Devices and Circuits	ECE	National	31.08.2020	31.08.2020	NITTTR, CHD	BSD/ KS
2.	ICTO-W-8	IoT and Artificial Intelligence	ECE	National	01.03.2021	05.03.2021	NITTTR, CHD	GS

**PROMOTIONAL AND INDUSTRY LINKED ACTIVITIES:**

<b>Sr. No</b>	<b>O. Plan No.</b>	<b>Course Title</b>	<b>Level</b>	<b>Start Date</b>	<b>End Date</b>	<b>Venue/ Beneficiary State</b>	<b>Course Coordinator</b>
1.	ICTO-PDA-02	Atamnirbhar Bharat : Transmutation from Privation to Exuberance	-	27.07.2020	31.07.2020	NITTTR CHD/ National Level	BSD
2.	SP-38	SERB-DST "Design and Development of Junctionless Nanowire TFET Biosensor"	-	2019	2022	NITTTR CHD/ National Level	BR

Sr. No	O. Plan No.	Course Title	Level	Start Date	End Date	Venue/ Beneficiary State	Course Coordinator	No. of Participants
1.	ICTO-207	VLSI Design Challenges and Opportunities	Poly./ Engg. Colleges/Ind./ Students, Others	21.09.2020	25.09.2020	NITTTR CHD/ <b>National Level</b>	SSG/BR	20
2.	ICTO-CP-13	Administration, Planning, Monitoring & Training	Poly./ Engg. Colleges/Ind./ Students, Others	19.10.2020	23.10.2020	NITTTR CHD/ <b>National Level</b>	SSG	40

3.	ICTO-179	Digital Signal Processing Fundamentals	Poly./ Engg. Colleges/Ind./ Students, Others	24.08.2020	28.08.2020	NITTTR CHD/ National Level	AK	18
4	ICTO-212	Biomedical Instrumentation and Applications	Poly./ Engg. Colleges/Ind./ Students, Others	28.09.2020	02.10.2020	NITTTR CHD/ <b>National Level</b>	AK	07
5	ICTO-233	Digital Filter Design using MATLAB	Poly./ Engg. Colleges/Ind./ Students, Others	16.11.2020	20.11.2020	NITTTR CHD/ <b>National Level</b>	AK	08

<b>6</b>	<b>ICTO-160</b>	Industry Partnered online STC on IoT and LoRaWAN Technology using Arduino	Poly./ Engg. Colleges/Ind./ Students, Others	17.08.2020 0	21.08.2020 0	NITTTR CHD/ <b>National Level</b>	BSD	28
<b>7</b>	<b>ICTO-SP-18</b>	ATAL-FDP on Flexible and Wearable Antennas : Recent Advancements, Fabrication Techniques and Applications (Sub-Thrust Area : Wearable Devices)	Poly./ Engg. Colleges/Ind./ Students, Others	12.10.2020 0	16.10.2020 0	NITTTR CHD/ <b>National Level</b>	BSD	143
<b>8</b>	<b>ICTO-214</b>	ECE Virtual Lab Practices using Free Simulators	Poly./ Engg. Colleges/Ind./ Students, Others	19.10.2020 0	23.10.2020 0	NITTTR CHD/ <b>National Level</b>	BSD	08

<b>9</b>	<b>ICTO-141</b>	Digital and Analog VLSI Design (3-7 August, 2020)	Poly./ Engg. Colleges/Ind./ Students, Others	03.08.2020	07.08.2020	NITTTR CHD/ <b>National Level</b>	BR/SSG	124
<b>10</b>	<b>ICTO-137</b>	Nanoelectronics Devices and Circuits	Poly./ Engg. Colleges/Ind./ Students, Others	17.08.2020	21.08.2020	NITTTR CHD/ <b>National Level</b>	BR/SSG	75

<b>11</b>	<b>ICTO-139</b>	IoT & Embedded Systems	Poly./ Engg. Colleges/Ind./ Students, Others	24.08.2020	28.08.2020	NITTTR CHD/ <b>National Level</b>	KS	117
<b>12</b>	<b>ICTO-216</b>	IoT and Reconfigurable WSNs	Poly./ Engg. Colleges/Ind./ Students, Others	28.09.2020	02.10.2020	NITTTR CHD/ <b>National Level</b>	KS	13
<b>13</b>	<b>ICTO-234</b>	PLDs and Embedded Systems	Poly./ Engg. Colleges/Ind./ Students, Others	04.01.2021	08.01.2021	NITTTR CHD/ <b>National Level</b>	KS	08

<b>14</b>	<b>ICTO-140</b>	Latest Wireless Technologies (3-7 August, 2020)	Poly./ Engg. Colleges/Ind./ Students, Others	10.08.2020	14.08.2020	NITTTR CHD/ <b>National Level</b>	GS	144
<b>15</b>	<b>ICTO-208</b>	Mobile Broadband Transformation	Poly./ Engg. Colleges/Ind./ Students, Others	19.10.2020	23.10.2020	NITTTR CHD/ <b>National Level</b>	GS	18

## **ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT**

**SHORT TERM PROGRAMMES : 01.04.2021 to 31.03.2022**

**(CONTACT MODE)**

Sr. No	O. Plan No.	Category	Course Title	Level	Start Date	End Date	Venue/ Beneficiary State	Course Coordinator
34.	ECE-1	Advanced Level	VLSI Physical Design Techniques	National Level	26.07.2021	30.07.2021	All States	SSG/ BR
35.	ECE-2	Research Orientated	Flexible and Wearable Antennas for Next Generation Applications	National Level	02.08.2021	06.08.2021	All States	BSD
36.	ECE-3	Advanced Level	Digital Filter Design with MATLAB	National Level	02.08.2021	06.08.2021	All States	AMK
37.	ECE-4	Advanced Level	Engineering Applications of Artificial Intelligence and Machine Learning	National Level	13.09.2021	17.09.2021	All States	BSD
38.	ECE-5	General	Image Processing using MATLAB (Two Weeks)	National Level	13.09.2021	17.09.2021	All States	AMK
39.	ECE-6	Skill Orientation	Python programming & IoT Applications	National Level	04.10.2021	08.10.2021	All States	BSD/GS
40.	ECE-7	Advanced Level	Image and Embedded Processing.	National Level	04.10.2021	08.10.2021	All States	AMK/KS
41.	ECE-8	Research Orientated	Natural Language Processing	National Level	08.11.2021	12.11.2021	All States	AMK
42.	ECE-9	Research Orientated	Applications of Embedded Systems	National Level	22.11.2021	26.11.2021	All States	KS
43.	ECE-10	General	ECE lab Practices for Polytechnic Teachers (Two Weeks)	National Level	22.11.2021	03.12.2021	All States	BSD/GS
44.	ECE-11	General	Internet of Things (IoT) and Its Applications	National Level	06.12.2021	10.12.2021	All States	BR
45.	ECE-12	General	MATLAB & Its Application	National Level	03.01.2022	07.01.2022	All States	GS
46.	ECE-13	General	AI and Soft Computing Algorithms for Antenna Design	National Level	17.01.2022	21.01.2022	All States	BSD
47.	ECE-14	General	Artificial Neural Networks	National Level	17.01.2022	21.01.2022	All States	AMK
48.	ECE-15	General	Biomedical Image and Signal Processing.	National Level	17.01.2022	21.01.2022	All States	MS
49.	ECE-16	Research Orientated	Nanoelectronic : Materials, Devices and Circuits	National Level	24.01.2022	28.01.2022	All States	BR
50.	ECE-17	Advanced Level	5G & Beyond	National Level	31.01.2022	04.02.2022	All States	GS
51.	ECE-18	General	Digital Marketing	National Level	21.02.2022	25.02.2022	All States	BSD/KGS
52.	ECE-19	General	ECE lab Practices for Polytechnic Teachers (Two Weeks)	National Level	28.02.2022	11.03.2022	All States	BR/KS
53.	ECE-20	General	Digital Media Tools for Effective Teaching Learning	National Level	14.03.2022	18.03.2022	All States	BSD

**ICT MODE (Through Google Hangout/other Video Conferencing Mode)**

Sr. No	O. Plan No.	Category	Course Title	Level	Start Date	End Date	Venue/ Beneficiary State	Course Coordinator
54.	ICT-10	Advanced Level	Low Power VLSI Design	National Level	05.04.2021	09.04.2021	All States	BR/SSG
55.	ICT-11	Advanced Level	Specification to System Development	National Level	05.04.2021	09.04.2021	All States	KS
56.	ICT-12	General	Basic of MATLAB Programming	National Level	05.04.2021	09.04.2021	All States	AMK
57.	ICT-13	Advanced Level	Antenna & Wireless Communication Technologies	National Level	26.04.2021	30.04.2021	All States	GS/BSD
58.	ICT-40	General	Nanoelectronics Devices and Circuits Design	National Level	03.05.2021	07.05.2021	All States	BR
59.	ICT-41	General	Digital Signal Processing using MATLAB (Two Weeks)	National Level	03.05.2021	14.05.2021	All States	AMK
60.	ICT-42	General	Recent Technologies for Mobile Broadband Transformation	National Level	17.05.2021	21.05.2021	All States	GS
61.	ICT-43	Advanced Level	NBA Accreditation and Examination Reforms	National Level	17.05.2021	21.05.2021	All States	BSD/SSG
62.	ICT-62	General	Artificial Intelligent for Engineering Applications	National Level	07.06.2021	11.06.2021	All States	SSG/ BR
63.	ICT-63	General	ECE Virtual Lab Practices using Free Online Simulations	National Level	14.06.2021	18.06.2021	All States	BSD
64.	ICT-64	General	Neural Networks and Deep Learning	National Level	14.06.2021	18.06.2021	All States	MS
65.	ICT-77	General	System Designing with Embedded Processors	National Level	26.07.2021	30.07.2021	All States	KS
66.	ICT-92	General	Emerging Wireless Communication Technologies	National Level	02.08.2021	06.08.2021	All States	GS
67.	ICT-93	General	Embedded systems and IoT's	National Level	23.08.2021	27.08.2021	All States	KS
68.	ICT-105	Advanced Level	5G & Beyond	National Level	13.09.2021	17.09.2021	All States	GS
69.	ICT-106	General	Digital and Analog VLSI Design	National Level	13.09.2021	17.09.2021	All States	BR
70.	ICT-107	Research Orientated	IoT's and Sensor Networks	National Level	20.09.2021	24.09.2021	All States	KS
71.	ICT-108	General	Quality enhancement in circuit Departments of Engineering Institutes	National Level	20.09.2021	24.09.2021	All States	SSG/BSD
72.	ICT-136	General	Role of De Novo programs in Indian Scenario	National Level	06.12.2021	10.12.2021	All States	SSG
73.	ICT-144	General	Image and Embedded Processing	National Level	17.01.2022	21.01.2022	All States	AMK/ KS
74.	ICT-153	General	Vocal for Local: Issues for Electronics Industry	National Level	07.02.2022	11.02.2022	All States	SSG
75.	ICT-162	General	Industry oriented STC on VLSI Design Tools	National Level	21.03.2022	25.03.2022	All States	SSG/BR

#### PROMOTIONAL AND INDUSTRY LINKED ACTIVITIES:

Sr. No	O. Plan No.	Course Title	Level	Start Date	End Date	Venue/Beneficiary State	Course Coordinator
1.	ICTO-CP-18	IoT and Artificial Intelligence	National Level	31.05.2021	04.06.2021	NITTTR, CHD / All States	GS/BSD