

List of Approved MOOC Courses for B.Tech Honours 2019 Regulations

ELECTRICAL AND ELECTRONICS ENGINEERING

SL. No	Course	Course Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
GROUP I								
1	Computational Electromagnetics	EEH100	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Madras	
2	Electric vehicles and Renewable energy	EEH101	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITM	
3	Fundamentals of Electric vehicles: Technology & Economics	EEH102	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Madras	
4	Advanced Electric Drives	EEH103	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
5	Basics Of Finite Element Analysis - I	EEH104	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
6	Basics Of Finite Element Analysis - II	EEH105	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
7	Electrical Equipment And Machines: Finite Element Analysis	EEH106	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Bombay	
8	Power Quality Improvement Technique	EEH107	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	
9	Fuzzy Sets, Logic and Systems & Applications	EEH108	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
GROUP II								
1	Applied Electromagnetics For Engineers	EEH200	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITK	
2	E-Mobility and Charging Infrastructure	EEH201	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Guwahati	
3	Introduction to Embedded System Design	EEH202	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Jammu	
4	Semiconductor Devices and Circuits	EEH203	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IISC	
5	Fuzzy Sets, Logic and Systems & Applications	EEH204	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
6	Industrial Automation and Control	EEH205	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kharagpur	

7	Introduction to Industry 4.0 and Industrial Internet of Things	EEH206	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kharagpur	
8	Advance power electronics and Control	EEH207	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	
9	Fundamentals of Electric vehicles: Technology & Economics	EEH208	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Madras	
10	Power Management Integrated Circuits	EEH209	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITM	
11	Electronic Modules For Industrial Applications Using Op-Amps	EEH210	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IISc Bangalore	
12	Modelling And Simulation Of Dynamic Systems	EEH211	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	
13	High Power Multilevel Converters- Analysis, Design And Operational Issues	EEH212	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Delhi	
14	Integrated Circuits, MOSFETs, Op-Amps And Their Applications	EEH213	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IISc Bangalore	
15	Microelectronics: Devices To Circuits	EEH214	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	
16	Op-Amp Practical Applications: Design, Simulation And Implementation	EEH215	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IISc Bangalore	
17	Electric vehicles and Renewable energy	EEH216	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITM	
18	Advanced Electric Drives	EEH217	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
GROUP III								
1	Power System Dynamics, Control and Monitoring	EEH300	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT KGP	
2	Energy Resources, Economics and Environment	EEH301	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITB	
3	Power System Protection	EEH302	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kharagpur	
4	Elements of Solar Energy Conversion	EEH303	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITK	(If not registering for EET458 Solar PV Systems under KTU)

5	Non-Conventional Energy Resources	EEH304	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITM	(If not registering for EET322 Renewable Energy Systems under KTU)
6	Waste to Energy Conversion	EEH305	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	
7	Introduction To Industry 4.0 And Industrial Internet Of Things	EEH306	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kharagpur	
8	Power Quality Improvement Technique	EEH307	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	
9	Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems	EEH308	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITG	(If not registering for EET322 Renewable Energy Systems under KTU)
10	Dc Microgrid and Control System	EEH309	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	
11	Introduction to Smart Grid	EEH310	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	(If not registering for EET434 Smart Grid Technologies under KTU)
12	Electrochemical Energy Storage	EEH311	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kharagpur	
13	Solar Energy Engineering and Technology	EEH312	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITG	(If not registering for EET458 Solar PV Systems under KTU)
14	Electrical Distribution System Analysis	EEH313	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	
15	Fundamentals of Electric vehicles: Technology & Economics	EEH314	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Madras	
16	Power Quality Improvement Technique	EEH315	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	

17	Computer Aided Power System Analysis	EEH316	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	(If not registering for EET464 Computer Aided Power System Analysis under KTU)
18	Advances In UHV Transmission And Distribution	EEH317	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IISc Bangalore	
19	Facts Device	EEH318	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	(If not registering for EET466 HVDC & Facts under KTU)
20	Power System Protection And Switchgear	EEH319	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	
21	Solar Energy Engineering And Technology	EEH320	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Guwahati	(If not registering for EET458 Solar PV Systems under KTU)
22	Solar Photovoltaics Fundamentals, Technology And Applications	EEH321	HONOURS MOOC	8 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	

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INFORMATION TECHNOLOGY

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GROUP II								
1	Computational Number Theory and Algebra	ITH205	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
2	A basic course in number theory	ITH206	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Bombay	
GROUP III								
1	Microprocessors and Interfacing	ITH305	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITG	
2	Microprocessors And Microcontrollers	ITH306	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITKGP	
3	Advanced Computer Architecture	ITH307	HONOURS MOOC	08 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITG	
4	Introduction To Embedded System Design	ITH308	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	Netaji Subhas University of Technology and IIT Jammu	
5	Introduction To Robotics	ITH309	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Madras	
6	Introduction To Robotics	ITH310	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kanpur	
7	Robotics	ITH311	HONOURS MOOC	08 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Kharagpur	
8	Robotics And Control : Theory And Practice	ITH312	HONOURS MOOC	08 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Roorkee	
9	Robotics: Basics And Selected Advanced Concepts	ITH313	HONOURS MOOC	12 weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IISc Bangalore	



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MECHANICAL ENGINEERING

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GROUP 1								
1	Mechanics of material	MEH100	HONOUR MOOC	12 Weeks	NPTEL	B.Tech Regulations 2019	IITM	
2	Experimental stress analysis	MEH101	HONOUR MOOC	13 Weeks	NPTEL	B.Tech Regulations 2019	IITM	
GROUP 2								
1	Applied thermodynamics	MEH200	HONOUR MOOC	12 Weeks	NPTEL	B.Tech Regulations 2019	IITG	