

File Ref.No.KTU/ASST(ACADEMIC)/4117/2017

**APJ Abdul Kalam Technological University
Thiruvananthapuram**

Abstract

APJAKTU- NPTEL MOOC Courses for B.Tech(Honours) - 47 MOOC courses offered by different IITs- sanctioned-Orders issued.

ACADEMIC SECTION

U.O.No. 419/2019/KTU

Thiruvananthapuram, Dated: 24.10.2019

*Read:-*1. Minutes of the 5th Academic council held on 16/08/2019, item no.005.3.01.

ORDER

Vide item under reference , a list of 47 NPTEL MOOC courses , sent by certain colleges which are offered by different IITs, was placed in the Academic Council for approval .

As per rule 8 of the rules of B.Tech(Honours) degree programme, students registering for the B.Tech (Honours) programme can earn credits by undergoing massive open online courses (MOOC) offered by reputed institutions/organisation with the approval of the University.

The Academic Council after discussion had approved all the NPTEL MOOC Courses, which was placed for approval.

The list of NPTEL MOOC courses is attached.

Orders are here by issued that this additional 47 NPTEL MOOC courses can be registered by the students for the B.Tech(Honours) Programme. The final list of MOOC courses is accordingly updated.

Sd/-

Dr. J. SREEKUMAR *
Dean (Academic)

Copy to:-

1. JD(IT) to be published in the website and updation of the portal.
2. The Principals of all engineering colleges.

* This is a computer system (Digital File) generated letter. Hence there is no need for a physical signature.



NPTEL MOOC Courses

Srl.No.	Discipline	Course Name	Institute	Duration
1	ME	Industrial Safety Engineering	IIT Kharagpur	12 weeks
2	Civil	Geo Environmental Engineering	IIT Guwahati	12 weeks
3	Civil	Glass in Buildings-Design and Applications	IIT Madras	12 weeks
4	Civil	Higher Surveying	IIT Guwahati	12 weeks
5	Civil	Integrated waste management for a smart city	IIT Kharagpur	12 weeks
6	Civil	Modern construction materials	IIT Madras	12 weeks
7	Civil	Geosynthetics and Reinforced soil structures	IIT Madras	12 weeks
8	CSE	Foundations to Computer systems design	IIT Madras	12 weeks
9	EEE/ECE	Programming in Java	IIT Kharagpur	12 weeks
10	CSE	Joy of computing using Python	IIT Ropar	12 weeks
11	EEE/ECE	Machine learning for Engineering & Science applications	IIT Madras	12 weeks
12	CSE	AI:Knowledge representation and reasoning	IIT Madras	12 weeks
13	CSE	Blockchain architecture and use cases	IIT Kharagpur	12 weeks
14	CSE	Cryptography and network security	IIT Kharagpur	12 weeks
15	CSE	Social networks	IIT Ropar	12 weeks
16	CSE	Introduction to internet of things	IIT Kharagpur	12 weeks
17	CSE	Introduction to industry 4.0 and Industrial internet of things	IIT Kharagpur	12 weeks
18	EEE	Modern digital communication techniques	IIT Kharagpur	12 weeks
19	EEE	Introduction to photonics	IIT Madras	12 weeks
20	EEE/ECE	Biomedical signal processing	IIT Kharagpur	12 weeks
21	EEE/ECE	Multirate DSP	IIT Madras	12 weeks
22	EEE	Mathematical methods and Techniques in signal processing	IISc	12 weeks
23	EEE/ECE	Electronic systems for cancer diagnosis	IISc	12 weeks
24	ME	Principles of mechanical measurement	IIT Guwahati	12 weeks
25	ME	Conduction and convection heat transfer	IIT Kharagpur	12 weeks
26	ME	IC Engines and Gas turbines	IIT Guwahati	12 weeks
27	ME	Product design and manufacturing	IIT Kanpur	12 weeks
28	ME	Rapid manufacturing	IIT Kanpur	12 weeks
29	ME	Introduction to mechanical micro machining	IIT Kharagpur	12 weeks



Srl.No.	Discipline	Course Name	Institute	Duration
30	ME	Machinery fault diagnosis and signal processing	IIT Kharagpur	12 weeks
31	ME	Spray theory	IIT Madras	12 weeks
32	MD	Non-conventional Energy resources	IIT Madras	12 weeks
33	EEE	Fiber-optic communication systems and techniques	IIT Kanpur	12 weeks
34	EEE	Heat exchangers: Fundamentals and design analysis	IIT Kharagpur	12 weeks
35	ME	Energy conservation and waste heat recovery	IIT Kharagpur	12 weeks
36	ME	Computational fluid mechanics	IIT Kharagpur	12 weeks
37	ME	Fundamentals of manufacturing processes	IIT Roorkey	12 weeks
38	ME	Manufacturing systems technology i&ii	IIT Kanpur	12 weeks
39	ME	Mechanics of human movement	IIT Madras	12 weeks
40	ME	Advanced composites	IIT Kanpur	12 weeks
41	ME	Engineering metrology	IIT Kanpur	12 weeks
42	ME	Noise management and control	IIT Kanpur	12 weeks
43	ME	Fundamentals of surface engineering: Mechanisms, processes and characterisations	IIT Roorkey	12 weeks
44	ME	Work system design	IIT Roorkey	12 weeks
45	ME	Engineering Fracture Mechanics	IIT Madras	12 weeks
46	EEE	Coding Information theory and Cryptography	IIT Delhi	12 weeks
47	EEE	Design of photovoltaic system.	IISc Bangalore	12 weeks

