

APJ Abdul Kalam Technological University
Thiruvananthapuram

Abstract

APJAKTU–Academics- List of Approved MOOC Courses for B.Tech Honours (B.Tech 2019 Regulations) - Orders issued - Reg.

ACADEMIC SECTION

U.O.No. 3170/2022/KTU

Thiruvananthapuram, Dated: 30.12.2022

*Read:-*1. Rule R.12.5 of B.Tech 2019 Regulations.

2. U.O.No.2566/2022/KTU Dated 14.10.2022

3. List of Honour MOOC courses recommended by the various Board of Studies.

ORDER

Vide paper read as (1) above, students registering for the B. Tech **Honours** Degree programme can earn 8 credits by undergoing 2 Massive Open Online Courses (MOOC) relevant to the subjects concerned in the respective Honours group offered by agencies namely AICTE/ NPTEL/ SWAYAM/ NITTTR with the recommendation of the Board of Studies and approval by the Academic Council.

By issuance of University Order read as (2) above, a total of 375 nos. of Massive Open Online Courses (MOOC) that can be registered by the students of B.Tech (2019 Scheme), to earn credits for **Honours** Programme, have been approved.

Vide paper read (3) above, various Boards of Studies, after verifying the syllabus content and duration of the courses, have recommended to approve **19 numbers of Massive Online Open Courses (MOOCs)**.

Considering the urgency, sanction has been accorded by the Vice Chancellor to approve the list of **19 Massive Open Online Courses (MOOCs)** offered by agencies namely AICTE/ NPTEL/ SWAYAM/ NITTTR that can be registered by the students of **B.Tech Honours** Programme to earn credits, as appended herewith (*refer attachment*), subject to reporting and ratification of the matter in the Academic Council.

Students will not be permitted to register for MOOCs other than those approved and published by



the University, to earn credits for their Honours.

Orders are issued accordingly

Sd/-

Dr. VINU THOMAS *
Dean (Academic)

Copy to:-

1. All affiliated Institutions.
2. IT(section) for updating s/w and to publish in the website.
3. PS to VC & PVC, Dean (Acad)
4. JR(Acad) / JD(Acad) / Section
- 5.. SF / FC.

Forwarded / By Order

Section Officer

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



List of approved MOOC Course for B Tech Honours 2019 Regulations

MECHANICAL ENGINEERING

Sl No	Course	Course Code	Course Type	B Tech Regulations	Duration	Offering Platform	Course Institution
GROUP II							
1	FUNDAMENTALS OF THEORETICAL AND EXPERIMENTAL AERODYNAMICS	MEH201	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KHARAGPUR
2	COMPUTATIONAL FLUID DYNAMICS FOR INCOMPRESSIBLE FLOWS	MEH202	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT GUWAHATI
3	ADVANCED FLUID MECHANICS	MEH203	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KHARAGPUR
4	TURBULENT COMBUSTION: THEORY AND MODELLING	MEH204	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KANPUR
GROUP III							
5	RAPID MANUFACTURING	MEH302	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KANPUR
6	METAL ADDITIVE MANUFACTURING	MEH303	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KANPUR
7	ADVANCED MACHINING PROCESS	MEH304	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT GUWAHATI
8	FUNDAMENTALS OF ADDITIVE MANUFACTURING TECHNOLOGIES	MEH305	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT GUWAHATI
9	AUTOMATION IN MANUFACTURING	MEH306	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT GUWAHATI
10	MANUFACTURING SYSTEMS TECHNOLOGY I & II	MEH307	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KANPUR
ELECTRICAL AND ELECTRONICS ENGINEERING							
GROUP I							



1	INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	EEH111	Honour MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KHARAGPUR
GROUP II							
1	POWER PLANT ENGINEERING	EEH220	Honours MOOC	2019 Regulations	8 weeks	NPTEL/SWAYAM	IIT ROORKEE
2	INTRODUCTION TO SMART GRID	EEH221	Honours MOOC	2019 Regulations	8 weeks	NPTEL/SWAYAM	IIT ROORKEE
3	SOLAR ENERGY ENGINEERING AND TECHNOLOGY	EEH222	Honours MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT GUWAHATI
4	INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	EEH223	Honour MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KHARAGPUR
5	INTRODUCTION TO SEMICONDUCTOR DEVICES	EEH224	Honour MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT HYDERABAD
6	FUNDAMENTALS OF ELECTRIC DRIVES	EEH225	Honour MOOC	2019 Regulations	8 weeks	NPTEL/SWAYAM	IIT KANPUR
GROUP III							
1	INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	EEH324	Honour MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT KHARAGPUR
COMPUTER SCIENCE AND ENGINEERING							
GROUP II							
1	INTRODUCTION TO MACHINE LEARNING	CSH202	Honour MOOC	2019 Regulations	12 weeks	NPTEL/SWAYAM	IIT MADRAS

