

**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.

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*ACADEMIC SECTION*

U.O.No. 142/2022/KTU

Thiruvananthapuram, Dated: 25.01.2022

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- Read:-*1. Rule R.12.5 of B.Tech 2019 Regulations.  
2. U.O.No.1987/2021/KTU Dated: 27.11.2021  
3. U.O.No.2010/2021/KTU Dated 01.12.2021  
4. U.O.No.2033/2021/KTU Dated 04.12.2021  
5. U.O.No.2096/2021/KTU Dated 15.12.2021  
6. 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 concerned subjects in the respective honours group offered by agencies namely AICTE/ NPTEL/ SWAYAM/ NITTTR with the recommendation by the Board of studies and approval of the Academic Council.

Vide University Orders read as (2) to (5) above, 346 nos. of MOOCs that can be registered by the students of B.Tech (2019 Scheme), to earn credits for **Honours** Programme, were approved.

Vide paper read (6) above, various Board of Studies, after verifying the syllabus content and duration of the courses, has recommended to approve **21 Massive Online Open Courses.**

Considering the urgency, sanction has been accorded by the Vice Chancellor to approve the list of 21 MOOC Courses 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. Sadiq A. \*  
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 Courses for B.Tech Honours 2019 Regulations**

**CIVIL ENGINEERING**

SL. No	Course	Course Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
<b>GROUP I</b>								
1	Modern Construction Materials	CEH100	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITM	Replacement of S7 Honours CET495
2	Structural Dynamics	CEH101	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIITH	Replacement of S5 Honours CET393
3	Finite Element Method	CEH102	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITKGP	Replacement of S6 Honours course CET394
4	Experimental Stress Analysis	CEH103	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITM	Replacement of S4 Course CET292
<b>GROUP II</b>								
1	Advanced Soil Mechanics	CEH203	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITG	
2	Soil Structure Interaction	CEH204	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITKGP	Students Planning to register for CET428 Soil structure interaction (S8) are not eligible for selecting this course
3	Expansive Soil	CEH205	HONOURS MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITG	
4	Advanced Foundation Engineering	CEH206	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITKGP	Students Planning to register for CET426 Advanced foundation design (S8) are not eligible for selecting this course
5	Urban Transportation Systems Planning	CEH207	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITKGP	
6	Geomorphology	CEH208	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	

**GROUP III**

1	Geographic Information Systems	CEH302	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	Replacement of S4 Course CET296
2	Microwave Remote Sensing in Hydrology	CEH303	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITB	
3	Applied Environmental Microbiology	CEH304	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	Students Planning to register for CET463 Advanced Environmental Engineering(S7) are not eligible for selecting this course
4	Engineering Hydrology	CEH305	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITG	Students Planning to register for CET443 Applied Hydrology(S7) are not eligible for selecting this course
5	Air pollution and Control	CEH306	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IITR	



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**COMPUTER SCIENCE & ENGINEERING**

<b>SL. No</b>	<b>Course</b>	<b>Course Code</b>	<b>Course Type</b>	<b>Duration</b>	<b>Offering Platform</b>	<b>B.Tech Regulation</b>	<b>Course Institution</b>	<b>Remarks</b>
<b>GROUP I</b>								
1	A basic course in Number Theory	CSH101	HONOURS MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech Regulation 2019	IIT Bombay	Replacing Course in S4, CST 292 Number Theory

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**ELECTRICAL AND ELECTRONICS ENGINEERING**

SL. No	Course	Course Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
<b>GROUP I</b>								
1	Scientific Computing Using Matlab	EEH109	HONOURS MOOC	12 Weeks	NPTEL	B.Tech Regulation 2019	IITD	
<b>GROUP II</b>								
1	Scientific Computing Using Matlab	EEH218	HONOURS MOOC	12 Weeks	NPTEL	B.Tech Regulation 2019	IITD	
2	Design of Power Electronic Converters	EEH219	HONOURS MOOC	8 Weeks	NPTEL	B.Tech Regulation 2019	IITG	
<b>GROUP III</b>								
1	Scientific Computing Using Matlab	EEH322	HONOURS MOOC	12 Weeks	NPTEL	B.Tech Regulation 2019	IITD	
2	Operation and Planning of Power Distribution Systems	EEH323	HONOURS MOOC	12 Weeks	NPTEL	B.Tech Regulation 2019	IITG	