File Ref.No.KTU/AC1/2569/2021

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. 2096/2021/KTU   Thiruvananthapuram, Dated: 15.12.2021

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. 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 (4) above, 328 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 (5) above, various Board of Studies, after verifying the syllabus content and duration of the courses, has recommended to approve **18 Massive Online Open Courses.**

Considering the urgency, sanction has been accorded by the Vice Chancellor to approve the list of 18 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 / Minor.

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.

SL. No	Course	Course Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
List of Approved MOOC Courses for B.Tech Honours 2019 Regulations								
COMPUTER SCIENCE AND ENGINEERING								
GROUP II								
1	Essential Mathematics for Machine Learning.	CSH201	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Roorkee	

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
GROUP II								
1	Geosynthetics and Reinforced Soil Structures	CEH200	HONOUR MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech 2019 Regulation	IITM	If not registered for CET424 Geo Environmental Engineering
2	Advanced Soil Mechanics	CEH201	HONOUR MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech 2019 Regulation	IIT G	
3	Rock Engineering	CEH202	HONOUR MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech 2019 Regulation	IIT R	
GROUP III								
1	Plastic Waste Management	CEH300	HONOUR MOOC	8 Weeks	NPTEL/ SWAYAM	B.Tech 2019 Regulation	IITKGP	
2	Environmental Remediation of Contaminated Sites	CEH301	HONOUR MOOC	12 Weeks	NPTEL/ SWAYAM	B.Tech 2019 Regulation	IIT R	If not registered for CET424 Geo Environmental Engineering

SL. No	Course	Course Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
List of Approved MOOC Courses for B.Tech Honours 2019 Regulations								
ELECTRONICS & BIOMEDICAL ENGINEERING								
GROUP III								
1	Introductory Mathematical Methods for Biologists	EBH311	HONOURS MOOC	8 weeks	NPTEL	B.Tech Regulation 2019	IIT Bombay	

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

NAVAL ARCHITECTURE AND SHIP BUILDING

SL. No	Course	Course Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
GROUP-1								
1	Offshore Structures Under Special Environmental Loads Including Fire Resistance	SBH100	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Madras	
2	Dynamics of Offshore Structures	SBH101	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Madras	
3	Computer Method of Structural Analysis of Offshore Structures	SBH102	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Madras	
4	Aqueous Corrosion and its control	SBH103	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Bombay	
5	Stability and Hydrostatics	SBH104	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Kharagpur	
6	Introduction to CFD	SBH105	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Kharagpur	
7	Advanced Fluid Mechanics	SBH106	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Kharagpur	
8	Finite Element Method	SBH107	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Kharagpur	
9	Vibration of Structures	SBH108	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Kharagpur	
10	Experimental Methods in Fluid Mechanics	SBH109	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Guwahati	
11	Fluid Mechanics and its applications	SBH110	HONOURS MOOC	12 WEEKS	SWAYAM/ NPTEL	B.Tech Regulation 2019	IIT Delhi	