

**APJ Abdul Kalam Technological University  
Thiruvananthapuram**

**Abstract**

APJAKTU - Additional list of 24 Massive Open Online Courses (MOOC) - Approved - Orders issued - Reg.

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*ACADEMIC SECTION*

U.O.No. 531/2021/KTU

Thiruvananthapuram, Dated: 23.03.2021

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- Read:-*1. U.O. No. 419/2019/KTU Dated 24.10.2019.  
2. U.O. No. 1229/2020/KTU Dated 03.09.2020.  
3. U.O. No. 1243/2020/KTU Dated 08.09.2020.  
4. U.O. No. 424/2021/KTU Dated 08.03.2021.  
5. Recommended list of MOOC Courses, forwarded by different Board of Studies, after verifying the syllabus and duration of the courses.

**ORDER**

Vide Order read as reference (1) above, 47 Massive Open Online Courses (MOOC), vide Order read as (2) above, 172 numbers of MOOC, and vide Order read as (3) above, 8 numbers of MOOC courses, vide Order read as (4) above, 97 numbers of MOOC, offered by reputed Institutions/Organisations, that can be registered by the students of B.Tech (Honours) Programme to earn credits, were approved by the University.

Vide paper read (5) above, various Board of Studies, after verifying the syllabus and duration of the courses, has recommended to approve **24 MOOC courses**, in addition to the existing approved list of MOOC courses read above.

Sanction has been accorded by the Vice Chancellor for the approval of the additional list of **twenty four MOOC Courses** offered by reputed Institutions/ Organisations that can be registered by the students of B.Tech (Honours) 2015 regulations to earn credits. The same shall be reported in the Academic Council. The list of courses are attached herewith.

Orders are issued accordingly.

*Sd/-*

Dr. Sadiq A. \*  
Dean (Academic)

Copy to:-

1. Principals of all affiliated colleges.
2. JD(IT), to be published in the website and s/w updation.
3. PS to VC / PVC, CE, Dean(Acad).
4. 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	Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
<b>CIVIL ENGINEERING</b>								
1	Remote Sensing: Principles and Applications	OCCE22	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Bombay	
2	Urban Transportation Systems Planning	OCCE23	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kharagpur	
3	Rock Engineering	OCCE24	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Roorkee	
4	Soil Structure Interaction	OCCE25	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kharagpur	
5	Municipal Solid Waste Management	OCCE26	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Guwahati	
6	Computational Hydraulics	OCCE27	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kharagpur	
7	Advanced Foundation Engineering	OCCE28	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kharagpur	
8	Advanced Soil Mechanics	OCCE29	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Guwahati	
9	Applied Environmental Microbiology	OCCE30	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Roorkee	
10	Basics of Remote sensing, GIS, GNSS technology	OCCE31	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	AICTE	
11	Environmental chemistry and Microbiology	OCCE32	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kharagpur	
12	Environmental remediation of contaminated sites	OCCE33	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Roorkee	
13	Mechanical characterisation of bituminous materials	OCCE34	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Madras	
14	Geo morphology	OCCE35	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Roorkee	
<b>INFORMATION AND TECHNOLOGY</b>								
1	Introduction to Internet of Things	OCIT29	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kharagpur	Can be offered to those students who didn't study the subject IT462 Internet of things as elective paper.
2	Social Networks	OCIT30	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IITM	
<b>INSTRUMENTATION AND CONTROL ENGINEERING</b>								
1	Biomedical Signal processing	OCIC24	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IITKGP	
2	Optical Spectroscopy and Microscopy: Fundamentals of optical measurements and instrumentation	OCIC25	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IISc	
3	Process Control- Design, analysis and assessment	OCIC26	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IITM	
4	Model Predictive Control: Theory and Applications	OCIC27	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IITM	
5	Computer Aided Applied Single Objective Optimization	OCIC28	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IITG	
6	Nonlinear System Analysis	OCIC29	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IITM	
7	Optical Fiber Sensors	OCIC30	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IITM	
8	Robotics: Basics and Selected Advanced Concepts	OCIC31	MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IISc	

