

**APJ Abdul Kalam Technological University
Thiruvananthapuram**

Abstract

APJAKTU - Additional list of 16 Massive Open Online Courses (MOOC) - B.Tech (Honours)- 2015 Regulations-Approved - Orders issued - Reg.

ACADEMIC SECTION

U.O.No. 1169/2021/KTU

Thiruvananthapuram, Dated: 27.07.2021

- Read:-*1. U.O. No. 419/2019/KTU Dated 24.10.2019.
2. Circular No. KTU/Director(Acad)/3031/2019 Dated 25.01.2020.
3. U.O. No. 1229/2020/KTU Dated 03.09.2020.
4. U.O. No. 1243/2020/KTU Dated 08.09.2020.
5. U.O. No. 424/2021/KTU Dated 08.03.2021.
6. U.O.No. 531/2021/KTU Dated 23.03.2021.
7. U.O.No.835/2021/KTU Dated 29.05.2021.
8. U.O.No. 532/2021/KTU Dated 23.03.2021.
9. U.O.No.1052/2021/KTU Dated 06.07.2021.
10. U.O.No.1162/2021/KTU Dated 26.07.2021
11. List of MOOCs recommended by the various Board of Studies.

ORDER

Vide papers read as (1) to (10) above orders were issued on the Massive Open Online Courses approved by the University that can be registered by the students of B.Tech Honours pursuing studies vide Regulations of 2015.

Vide papers read as (11) above, various Board of Studies, after verifying the syllabus and duration of the courses, has recommended to approve **16 Massive Online Open Courses**, in addition to the existing approved list of MOOC courses read above.

Sanction has been accorded by the Hon.Vice Chancellor for the approval of the additional list of **Sixteen MOOC Courses** offered by reputed Institutions/ Organisations, that can be registered by the students of B.Tech (Honours) 2015 regulations to earn credits, subject to reporting to the Academic Council. The details of courses are appended here with.

Orders are issued accordingly.

Sd/-

Dr. Sadiq A. *
Dean (Academic)

Copy to:-

1. Principals of all affiliated colleges.
2. AD(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



Additional list of approved MOOC Courses for B.Tech Honours (2015 Regulations)

SL. No	Course Name	Course Code	Course Type	Duration	Offering Platform	B.Tech Regulation	Course Institution	Remarks
INFORMATION TECHNOLOGY								
1	Problem Solving, Python Programming, and Video Games	OCIT31	Honour MOOC	12 weeks	Coursera	B.Tech Regulation 2015	University of Alberta	
MECHANICAL ENGINEERING								
1	Introduction to Air Breathing Propulsion	OCME61	Honour MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kanpur	
MECHANICAL PRODUCTION ENGINEERING								
1	Rapid Manufacturing	OCMP08	Honour MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kanpur	
2	Fundamentals of Manufacturing Processes	OCMP09	Honour MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Roorkee	
3	Manufacturing Process Technology I and II	OCMP10	Honour MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kanpur	
4	Introduction To Mechanical Micromachining	OCMP11	Honour MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kharagpur	
5	Principles of Mechanical Measurement	OCMP12	Honour MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Guwahati	
6	IC Engines and Gas Turbines	OCMP13	Honour MOOC	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Guwahati	
ELECTRONICS AND COMMUNICATION ENGINEERING								
1	Python for Everybody	OCEC53	Coursera	14weeks (two 7- week)	Coursera	B.Tech Regulation 2015	University Of Michigan.	Include two specializations: Courses: 1.Programming for Everybody (Getting started with python) 2.Python Data Structures



2	Python for Everybody	OCEC54	Coursera	20 Weeks (Five 4 week courses)	Coursera	B.Tech Regulation 2015	University Of Michigan.	Five courses each of 4 weeks duration Courses: 1. Programming for Everybody (Getting started with python) 2. Python Data Structures 3. Using Python to access web data 4. Using databases with Python 5. Capstone: Retrieving, Processing and visualizing data with Python
3	Machine Learning	OCEC55	Coursera	24weeks (Four 6 week courses)	Coursera	B.Tech Regulation 2015	University Of Washington	Four courses, Each of 6 weeks duration Courses: 1. Machine Learning foundations: A case study approach: 2. Machine Learning - Regression 3. Machine Learning - Classification 4. Machine Learning - Clustering & Retrieval
4	Mathematics for Machine Learning	OCEC56	Coursera	(5 + 4 + 6)weeks course	Coursera	B.Tech Regulation 2015	Imperial College London	Three courses (5 + 4 + 6)weeks course Courses: 1. Mathematics for Machine Learning -Linear Algebra: (5 weeks) 2. Mathematics for Machine Learning - Multivariate calculus (4 weeks) 3. Mathematics for Machine Learning - PCA (6weeks)



5	Python 3 Programming	OCEC57	Coursera	5 courses (4+5+3+3+3) weeks	Coursera	B.Tech Regulation 2015	University Of Michigan.	Five courses 1. Python Basics (4 weeks): 2. Python Files, Functions and Dictionaries (5 weeks): 3. Data Collection and Processing with Python (3 weeks): 4. Python Classes and Inheritance (3 weeks): 5. Python Project: pillow, tesseract and open CV (3 weeks):
6	Data Structures And Algorithms	OCEC58	Coursera	Two 6 week courses	Coursera	B.Tech Regulation 2015	Higher School of Economics	Two 6 weeks courses 1. Algorithmic Toolbox 2. Data Structures (6 weeks)
7	Introductory Neuroscience and Neuro Instrumentation	OCEC59	NPTEL	12 weeks	NPTEL	B.Tech Regulation 2015	IISc Bangalore	
8	Applied Linear Algebra For Signal Processing, Data Analytics and Machine Learning”	OCEC60	NPTEL	12 weeks	NPTEL	B.Tech Regulation 2015	IIT Kanpur	

