ST. JOSEPH'S COLLEGE OF ENGINEERING & TECHNOLOGY · PALAI

ST. JOSEPH'S

COLLEGE OF ENGINEERING AND TECHNOLOGY, - PALAI -

AUTONOMOUS

Choondacherry P.O., Pala, Kottayam - 686579
Kerala, India

LIST OF APPROVED MOOC COURSES

M. Tech.

2024 SCHEME

List of approved MOOC Courses for M. Tech

Offering Department : Mechanical Engineering

Name of the Program : Advanced Manufacturing and Production Management

Sl. No.	Course Name	Course Code	Course Type	Duration	Offering Platform	M.Tech Regulation	Course Offering Institution	Remarks
1	Introduction to Abrasive Machining and Finishing processes	24SJ3MPE027	MOOC	8 Weeks	NPTEL	2024 Regulation	IIT Tirupati	
2	Introduction To Mechanical Micro Machining	24SJ3MPE028	MOOC	12 Weeks	NPTEL	2024 Regulation	IITKGP	
3	Mechanical Measurement System	24SJ3MPE029	MOOC	8 Weeks	NPTEL	2024 Regulation	IITR	
4	Rapid Manufacturing	24SJ3MPE030	MOOC	12 Weeks	NPTEL	2024 Regulation	IITK	
5	Laser Based Manufacturing	24SJ3MPE031	MOOC	8 Weeks	NPTEL	2024 Regulation	IITG	
6	Ethics In Engineering Practice	24SJ3MPE032	MOOC	8 Weeks	NPTEL	2024 Regulation	IITKGP	
7	Quality Design and Control	24SJ3MPE033	MOOC	12 Weeks	NPTEL	2024 Regulation	IITKGP	
8	Understanding Incubation and Entrepreneurship	24SJ3MPE034	MOOC	12 Weeks	NPTEL	2024 Regulation	IITB	
9	Computer Aided Decision Systems - Industrial practices using Big Analytics	24SJ3MPE036	MOOC	12 Weeks	NPTEL	2024 Regulation	IITK	
10	Strategic Performance Management	24SJ3MPE037	MOOC	8 Weeks	NPTEL	2024 Regulation	IITKGP	

11	Modelling And Analytics for Supply Chain Management	24SJ3MPE038	MOOC	12 Weeks	NPTEL	2024 Regulation	IITKGP
12	Mergers, Acquisitions and Corporate Restructuring	24SJ3MPE039	MOOC	8 Weeks	NPTEL	2024 Regulation	IITKGP
13	Quality Control and Improvement with MINITAB	24SJ3MPE040	MOOC	8 Weeks	NPTEL	2024 Regulation	IITB
14	E-Business	24SJ3MPE041	MOOC	12 Weeks	NPTEL	2024 Regulation	IITKGP
15	Decision making with spreadsheet	24SJ3MPE042	MOOC	12 Weeks	NPTEL	2024 Regulation	IITR
16	Management Of Inventory Systems	24SJ3MPE043	MOOC	12 Weeks	NPTEL	2024 Regulation	IITKGP
17	Six Sigma	24SJ3MPE044	MOOC	12 Weeks	NPTEL	2024 Regulation	IITKGP
18	Supply Chain Analytics	24SJ3MPE045	MOOC	8 Weeks	NPTEL	2024 Regulation	IITR
19	Applied Multivariate Statistical Modelling	24SJ3MPE046	MOOC	12 Weeks	NPTEL	2024 Regulation	IITKGP
20	Computer Integrated Manufacturing	24SJ3MPE048	MOOC	12 Weeks	NPTEL	2024 Regulation	IITK
21	Advanced Robotics	24SJ3MPE049	MOOC	12 Weeks	NPTEL	2024 Regulation	IITK
22	Electronic Packaging and Manufacturing	24SJ3MPE051	MOOC	8 Weeks	NPTEL	2024 Regulation	IITKGP
23	Tools In Scientific Computing	24SJ3MPE052	MOOC	8 Weeks	NPTEL	2024 Regulation	IITKGP
24	Manufacturing Guidelines for Product Design	24SJ3MPE053	MOOC	8 Weeks	NPTEL	2024 Regulation	IITR

25	Introduction to Reliability Engineering	24SJ3MPE055	MOOC	8 Weeks	NPTEL	2024 Regulation	IITKGP	
26	Predictive Analytics - Regression and Classification	24SJ3MPE056	MOOC	12 Weeks	NPTEL	2024 Regulation	CMI	

List of approved MOOC Courses for M. Tech Audit Course

Offering Department : Mechanical Engineering

Name of the Program : Advanced Manufacturing and Production Management

Sl. No.	Course Name	Course Code	Course Type	Duration	Offering Platform	M.Tech Regulation	Course Offering Institution	Remarks
1	Design, Technology and Innovation	24SJ3AMGE35	MOOC	8 Weeks	NPTEL	2024 Regulation	IITB	Audit Course
2	Essentials Of Data Science with R Software - 1: Probability And statistical inference	24SJ3AMGE47	MOOC	12 Weeks	NPTEL	2024 Regulation	IITK	Audit Course
3	Modelling and Simulation of Dynamic Systems	24SJ3AMGE50	MOOC	8 Weeks	NPTEL	2024 Regulation	IITR	Audit Course
4	Product Engineering and Design Thinking	24SJ3AMGE54	MOOC	8 Weeks	NPTEL	2024 Regulation	IITKGP	Audit Course

List of approved MOOC Courses for S3 M.Tech CE-SECM

Offering Department: CIVIL

Name of the Program: M.Tech SECM

Sl. No.	Course Name	Course Code	Course Type	Duration	Offering Platform	M.Tech Regulation	Course offering institution	Remarks
1	Sustainable Engineering Concepts and Life Cycle Analysis	24SJ3MCE001	Elective	8weeks	SWAYAM	2024	IITKGP	
2	Admixtures And Special Concretes	24SJ3MCE002	Elective	12 weeks	SWAYAM	2024	IITM	
3.	Optimization methods for Civil engineering	24SJ3MCE003	Elective	12 weeks	SWAYAM	2024	IITG	
4.	Remote Sensing: Principles and Applications	24SJ3MCE004	Elective	12 weeks	SWAYAM	2024	IITB	
5.	Reliability-Based Structural Design	24SJ3MCE005	Elective	12 weeks	SWAYAM	2024	IITG	

List of approved MOOC Courses for Audit Course

Department: Civil Engineering

Program: M. Tech (Structural Engineering and Construction Management)

Sl. No.	Course Name	Course Code	Course Type	Duration	Offering Platform	B. Tech Regulation	Course offering	Remarks
1	Sustainable Engineering Concepts and Life Cycle Analysis	24SJ3AMGE13	MOOC	8 WEEKS	NPTEL	2024	IIT KGP	Audit Course
2	Remote Sensing: Principles and Applications	24SJ3AMGE14	MOOC	12 WEEKS	NPTEL	2024	IIT B	Audit Course
3	Introduction to Multimodal Urban Transportation Systems (MUTS)	24SJ3AMGE18	MOOC	12 WEEKS	NPTEL	2024	IIT KGP	Audit Course
4	Integrated Waste Management for a Smart City	24SJ3AMGE16	MOOC	12 WEEKS	NPTEL	2024	IIT KGP	Audit Course
5	Sustainable Transportation Systems	24SJ3AMGE17	MOOC	12 WEEKS	NPTEL	2024	IIT R	Audit Course

List of approved MOOC Courses

Name of the Program: M.Tech-CS and M.Tech-CS (WP)

Sl.No.	Course Name	Course Code	Course Type	Duration	Offering Platform	M. Tech Regulation	Course offering institution	Remarks
1	Introduction to Machine Learning	24SJ1MCS101	MOOC	12 Weeks	NPTEL	2024	IIT Madras, Prof. Balaraman Ravindran	S1-Working Professional only
2	Database Management System	24SJ1MCS002	MOOC	12 Weeks	SWAYAM	2024	Aligarh Muslim University Prof. Mohammad Ubaidullah Bokhari	S1-Working Professional only
MANDATORY MOOC COURSE (Semester -3)								
1	Privacy And Security in Online social media	24SJ3MCS116	MOOC	12 Weeks	NPTEL	2024	IIIT Hyderabad/ Prof. Ponnurangam Kumaraguru	
2	Data Science for Engineers	24SJ3MCS117	MOOC	8 Weeks	NPTEL	2024	IIT Madras/ Prof. Ragunathan Rengasamy and Prof. Shankar Narasimhan	
3	Deep Learning	24SJ3MCS009	MOOC	12 Weeks	NPTEL	2024	IIT Ropar/ Prof.Sudarshan Iyengar and Prof. Mitesh M. Khapra	
4	Cloud Computing and Distributed Systems	24SJ3MCS010	MOOC	8 Weeks	NPTEL	2024	IIT Patna/ Prof. Rajiv Misra	
5	Foundation of Cloud IoT Edge ML	24SJ3MCS011	MOOC	8 Weeks	NPTEL	2024	IIT Patna/ Prof. Rajiv Misra	
6	An introduction to Artificial intelligence	24SJ3MCS012	MOOC	12 Weeks	NPTEL	2024	IIT Delhi/ Prof. Mausam	
7	Data Analytics with Python	24SJ3MCS013	MOOC	12 Weeks	NPTEL	2024	IIT Roorkee / Prof. A Ramesh	

| 8 | Deep Learning | 24SJ3MCS014 | MOOC | 12 Weeks | NPTEL | 2024 | IIT Kharagpur / Prof. Prabir Kumar Biswas | |
| 9 | Deep Learning for Computer Vision | 24SJ3MCS015 | MOOC | 12 Weeks | NPTEL | 2024 | IIT Hyderabad / Prof. Vineeth N Balasubramanian | |

List of approved MOOC Courses for Audit Course

Offering Department : Computer Science and Engineering

Name of the Program : M.Tech CS, M.Tech-CS(WP)

Certificate of Completion is required. No Grade/Credits for the course

Sl.No.	Course Name	Course Code	Course Type	Offering Platform	M. Tech Regulation	Course offering institution
1	Design Thinking - A Primer	24SJ3AMGE04	MOOC	NPTEL	2024	IIT Madras, Prof. Ashwin Mahalingam, Prof. Bala Ramadurai
2	Design Thinking for Educators	24SJ3AMGEXX	MOOC	SWAYAM	2024	Dr. S. Saravana Perumaal National Institute of Technical Teachers Training & Research, Chennai