Phone: Off: +91–40–23158665
Fax: +91–40–23158665
Web : www.jntuh.ac.in
E Mail: pa2registrar@jntuh.ac.in

ACCREDITED BY NAAC
A-GRADE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Govt. Act No.30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)

BN Bhandari
Ph. D. (IIT, Kgp.)
Professor of Electronics & Commn. Engg.,
Director, Academic & Planning

Lr. No. DAPO/SWAYAM Substitutes /2020 Date: 31.01.2020

To
All the Principals of Constituent and Affiliated Colleges of JNTUH

Sir/Madam,

Sub: JNT University Hyderabad – Directorate of Academic & Planning - Substitute MOOCs courses for the students who registered and failed MOOCs courses through SWAYAM platform (NPTEL) of R16 B.Tech. III year Sem., IV Year I & II Semesters for the academic year 2019-20.

Ref: 1. Procds No. A1/2557/ 44th SCAS/2019 (1), dated 18.12.2019.
2. Letters received from the Principals of Affiliated Colleges.

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As per the instructions of UGC, AICTE and MHRD, Govt. of India, the University is implementing the Massive Open Online Courses (MOOCs) through SWAYAM platform (NPTEL), as Electives in B.Tech. R16 III-II, IV-I, IV-II Semesters from the academic year 2018-19.

It come to the notice of the University that many students who registered for MOOCs courses have failed and there is no supplementary examination for those who fail in the MOOCs Course as per MOOCs guidelines.

The failed students have to re-register for the same courses in the subsequent semesters and pass the subject to acquire the credits assigned to that elective subject and in many occasions the same course is not offered by NPTEL.

As this may lead to delay in getting the B.Tech. degree for final year students failed in the MOOCs Courses. As per the recommendations of BOS Chairpersons, it is proposed to provide substitute MOOCs in case of non-availability of same MOOCs course in the next semester.

The BOS Chairpersons have recommended the following MOOCs courses as substitutes for failed students in the III Year II Semester and IV Year I Semester.

R16 B.TECH III Year II Semester

Department	Professional Elective – I	Substitute MOOCs	Open Elective - II	Substitute MOOCs
Civil Engineering	--	--	(Offered to Civil Engg) English Language for Competitive Exams (12W) Fuzzy Logic and Neural Networks (8W)	Same Courses are Available
EEE	Electromagnetic Compatibility (8W) Non-Linear Adaptive Control (8W)	-- --	(Offered to EEE) MATLAB Programming for Numerical Computation (8W)	Same Course is Available
CSE	Introduction to Soft Computing (8W)	Same Course is Available	(Offered to CSE/IT) Joy of Computing using Python (12W)	Same Course is Available
MME	Material Characterization (12W)	Same Course is Available	(Offered to MME) Non-Conventional Energy Resources (12W)	Same Course is Available
Mining Engineering	Digital Land Surveying and Mapping (8W)	Same Course is Available	(Offered to Mining Engg) Non-Conventional Energy Resources (12W)	Same Course is Available
ECE	Modern Digital Communication Techniques (12W)	Spread Spectrum Communications and Jamming (12W)	(Offered to ECE/EIE) Fuzzy Logic and Neural Networks (8W)	Same Course is Available
Mechanical Engineering	1. Introduction To Mechanical Micro Machining (12W) 2. Machinery Fault Diagnosis and Signal Processing (12W) 3. Rapid Manufacturing (12W)	1. Same Course is Available -- --	(Offered to Mechanical Engg) Industrial Automation and Control (12W) Financial Mathematics (12W)	Same Courses are Available

R16 B.TECH IV Year I Semester

Department	Professional Elective – II	Substitute MOOCs	Professional Elective – III	Substitute MOOCs
Civil Engg.	Sustainable Materials and Green Buildings (12W)	Modern Construction Materials (12W)	Environmental Geotechniques (12W)	Environmental Geomechanics (12W)
	Design of Masonry Structures (12W)	Characterization of Construction Materials (12W)	--	--
EEE	Operating System Fundamentals (12W)	Operating System (12W)	--	--
	Introduction to Internet of things (12W)	Same Course is Available	--	--
Mech. Engg.	Industrial Safety Engineering (12W)	Principles of Industrial Engineering (12W)	Fundamentals of Gas Dynamics (12W)	Computational Fluid Dynamics for Incompressible Flows (12W)
	Dynamic Behaviour of Materials (12W)	Principles of Industrial Engineering (12W	Noise Management and Control (12W)	Computer Integrated Manufacturing (12W)
ECE	Pattern Recognition and Application (12W)	Cloud Computing (8W)	Introduction to Wireless and Cellular Communications (12W)	Evolution of Air Interface towards 5G (8W)
	Introduction to Machine Learning (12W)	Same Course is Available	Principles and Techniques of Modern Radar Systems (12W)	Antennas (12W)
EIE	Digital Image Processing (12W)	Optical Engineering (12W)	Sensors and Actuators (12W)	Integrated Circuits, MOSFETs, OP-Amps and Their Applications (12W)
CSE	The Joy of Computing Using Python (12W)	Same Course is Available	Introduction to Machine Learning (12W)	Same Course is Available
	Introduction to Internet of Things (12W)	Same Course is Available	Software Project Management (12W)	User-Centric Computing for Human-Computer Interaction (8W)
IT	The Joy of Computing Using Python (12W)	Same Course is Available	Artificial Intelligence Search Methods for Problem Solving (12W)	Artificial Intelligence: Knowledge Representation and Reasoning (12W)
	Introduction to Internet of things (12W)	Same Course is Available	Software Project Management (12W)	User-Centric Computing for Human-Computer Interaction (8W)

R16 B.TECH IV Year I Semester

Department	Professional Elective - IV	Substitute MOOCs
Civil Engg.	Advanced Concrete Technology (12W)	Maintenance and Repair of Concrete Structures (12W)
Mech. Engg.	Manufacturing Systems Technology Part I & II (12W)	Manufacturing Process Technology I & II (12W)
	Engineering Fracture Mechanics (12W)	Manufacturing Process Technology I & II (12W)
ECE	Principles of Modern CDMA/ MIMO/ OFDM Wireless Communications (8W)	Fundamentals of Wireless MIMO Communication (8W)
	Introduction to Computer Vision (12W)	Privacy and Security in Online Social Media (8W)
EIE	Pattern Recognition and Application (12W)	Cloud Computing (8W)
CSE	Blockchain Architecture Design and Use Cases (12W)	Introduction to Blockchain Technology and Applications (8W) (or) Privacy and Security in Online Social Media (8W)
	Social Networks (12W)	Same Course is Available
IT	Blockchain Architecture Design and Use Cases (12W)	Introduction to Blockchain Technology and Applications (8W) (or) Privacy and Security in Online Social Media (8W)
	Social Networks (12W)	Same Course is Available

The failed students may register for same MOOC course if offered in present semester (or) substitute MOOC course if same course is not offered in present semester.

This is for your information and necessary action.

Yours sincerely

31.01.2020

DIRECTOR

Copy to Director of Evaluation & Controller of Examinations, JNTUH, Hyderabad.