List of approved MOOC Course for B Tech Honours 2019 Regulations ARTIFICIAL INTELLIGENCE AND DATA SCIENCE Offering B Tech Course Course Code Course Type **Duration** Regulations **Platform** Institution GROUP I CRYPTOGRAPHY AND 2019 NPTEL/ Honour IIТ 1 ADH100 12 weeks MOOC NETWORK SECURITY Regulations **SWAYAM** KHARAGPUR **GROUP II** MACHINE LEARNING AND DEEP LEARNING -2019 NPTEL/ Honour ADH200 12 weeks IIT GUWAHATI 1 FUNDAMENTALS AND MOOC Regulations **SWAYAM APPLICATIONS** NEXT GENERATION **SEQUENCING** 2019 NPTEL/ Honour IIT TECHNOLOGIES: DATA ADH201 12 weeks MOOC Regulations **SWAYAM** KHARAGPUR ANALYSIS AND APPLICATIONS INTRODUCTION TO Honour 2019 NPTEL/ 3 ADH202 12 weeks IIT BOMBAY **PROTEOGENOMICS** MOOC Regulations **SWAYAM GROUP III** DEEP LEARNING FOR Honour 2019 NPTEL/ IIТ ADH300 1 12 weeks MOOC **SWAYAM** COMPUTER VISION Regulations **HYDERABAD** DIGITAL IMAGE Honour 2019 NPTEL/ IIT 2 ADH301 12 weeks KHARAGPUR **PROCESSING** MOOC Regulations **SWAYAM** COMPUTER VISION AND IMAGE PROCESSING-Honour 2019 NPTEL/ 3 **ADH302** 12 weeks IIT GUWAHATI FUNDAMENTALS AND MOOC **SWAYAM** Regulations **APPLICATIONS ENGINEERING** Honour 2019 NPTEL/ 4 **ADH303** 12 weeks IIT DELHI GRAPHICS AND DESIGN MOOC Regulations **SWAYAM** 2019 NPTEL/ Honour 5 COMPUTER GRAPHICS ADH304 8 weeks IIT GUWAHATI **SWAYAM** MOOC Regulations



	ELECTRICAL AND ELECTRONICS ENGINEERING										
GRO	GROUP I										
1	NETWORK ANALYSIS	EEH112	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT KANPUR				
GRO	UP II										
1	NETWORK ANALYSIS	EEH226	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT KANPUR				
GRO	GROUP III										
1	NETWORK ANALYSIS	ЕЕН325	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT KANPUR				
2	ECONOMIC OPERATIONS AND CONTROL OF POWER SYSTEMS	ЕЕН326	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT ROORKIE				
3	SMART GRID:BASICS TO ADVANCED TECHNOLOGIES	ЕЕН327	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT ROORKIE				
4	DC MICROGRID AND CONTROL SYSTEMS	ЕЕН328	Honour MOOC	2019 Regulations	8 weeks	NPTEL/ SWAYAM	IIT MADRAS				
		C	IVIL ENGINE	ERING							
GRO	UP I										
1	BASICS OF FINITE ELEMENT ANALYSIS -I	СЕН109	Honour MOOC	2019 Regulations	8 weeks	NPTEL/ SWAYAM	IIT KANPUR				
2	ENGINEERING FRACTURE MECHANICS	CEH110	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT MADRAS				
3	VIBRATION AND STRUCTURAL DYNAMICS	СЕН111	Honour MOOC	2019 Regulations	8 weeks	NPTEL/ SWAYAM	IIT KHARAGPUR				
4	DYNAMICS OF STRUCTURES	CEH112	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT BOMBAY				



5	FINITE ELEMENT METHOD AND COMPUTATIONAL STRUCTURAL DYNAMICS	CEH113	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT ROORKEE					
		NAVAL ARCH	ITECTURE A	ND SHIP BUI	LDING							
GRO	GROUP I											
1	OFFSHORE STRUCTURES UNDER SPECIAL ENVIRONMENTAL LOADS INCLUDING FIRE RESISTANCE	SBH111	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT MADRAS					
2	ADVANCED DESIGN OF STEEL STRUCTURES	SBH112	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS					
3	SURFACE FACILITIES FOR OIL AND GAS HANDLING	SBH113	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS					
4	AQUEOUS CORROSION AND ITS CONTROL	SBH114	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT BOMBAY					
5	COMPUTATIONAL FLUID DYNAMICS FOR INCOMPRESSIBLE FLOWS	SBH115	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT GUWAHATI					
6	FINITE ELEMENT METHOD	SBH116	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR					
7	STRUCTURAL VIBRATION	SBH117	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR					
	E	LECTRONICS AN	D COMMUN	ICATION ENG	INEERING							
GRO	UP I											
1	C-BASED VLSI DESIGN	ECH115	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR					
2	HARDWARE MODELING USING VERILOG	ECH116	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR					
3	ANALOG ELECTRONIC CIRCUIT	ECH117	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIITD					
4	DESIGN OF PHOTOVOLTAIC SYSTEMS	ECH118	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc					
5	ENCLOSURE DESIGN OF ELECTRONICS EQUIPMENT	ECH119	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc					
6	FABRICATION TECHNIQUES FOR MEMS-BASED SENSORS : CLINICAL PERSPECTIVE	ECH120	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc					



7	ELECTRONIC SYSTEMS FOR CANCER DIAGNOSIS	ECH121	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc
8	ELECTRICAL MEASUREMENT AND ELECTRONIC INSTRUMENTS	ECH122	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
9	DIGITAL CIRCUITS	ECH123	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
10	MICROELECTRONICS: DEVICES TO CIRCUITS	ECH124	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT ROORKEE
11	ANALYSIS AND DESIGN PRINCIPLES OF MICROWAVE ANTENNAS	ECH125	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
12	DIGITAL CONTROL IN SWITCHED MODE POWER CONVERTERS AND FPGA-BASED PROTOTYPING	ECH126	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
13	VLSI DESIGN FLOW: RTL TO GDS	ECH127	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIITD
14	ANALOG VLSI DESIGN	ECH128	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR
15	SYSTEM DESIGN THROUGH VERILOG	ECH129	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT GUWAHATI
16	NANOTECHNOLOGY, SCIENCE AND APPLICATIONS	ECH130	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT MADRAS
GRO	OUP II						
1	STATISTICAL LEARNING FOR RELIABILITY ANALYSIS	ECH220	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
2	STOCHASTIC CONTROL AND COMMUNICATION	ECH221	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT BOMBAY
3	AN INTRODUCTION TO CODING THEORY	ECH222	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KANPUR
4	MICROWAVE ENGINEERING	ECH223	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT GUWAHATI
5	PRINCIPLES AND TECHNIQUES OF MODERN RADAR SYSTEMS	ECH224	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR



GRO	UP I	3 3					
10	PROBABILITY - II WITH EXAMPLES USING R	ECH322 ELECTRONICS	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	ISI Bangalore
9	COMPUTATIONAL COMMUTATIVE ALGEBRA	ECH321	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	СМІ
8	REAL-TIME DIGITAL SIGNAL PROCESSING	ECH320	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc
7	DISCRETE TIME SIGNAL PROCESSING	ECH319	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUF
6	PATTERN RECOGNITION AND APPLICATION	ECH318	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUF
5	DIGITAL IMAGE PROCESSING	ECH317	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUF
4	STOCHASTIC CONTROL AND COMMUNICATION	ECH316	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT BOMBAY
3	MODERN ALGEBRA	ECH315	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KANPUR
2	COMPUTER GRAPHICS	ECH314	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT GUWAHA
1	THE JOY OF COMPUTING USING PYTHON	ECH313	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROPAR
GRO	UP III						
10	PROBABILITY AND STATISTICS	ECH229	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUI
9	INTRODUCTION TO PROBABILITY THEORY AND STATISTICS	ECH228	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT DELHI
8	INTRODUCTION TO PROBABILITY THEORY AND STOCHASTIC PROCESSES	ECH227	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT DELHI
7	INTRODUCTION TO ADAPTIVE SIGNAL PROCESSING	ECH226	Honour MOOC	2019 Regulations	8 weeks	NPTEL/ SWAYAM	IIT KHARAGPUI
6	SIMULATION OF COMMUNICATION SYSTEMS USING MATLAB	ECH225	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT GUWAHA



1	SIGNALS AND SYSTEMS	EBH110	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITM
2	COMPUTER VISION AND IMAGE PROCESSING - FUNDAMENTALS AND APPLICATIONS	EBH111	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITG
3	BIOMEDICAL SIGNAL PROCESSING	EBH112	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
GRO	OUP II						
1	EMBEDDED SYSTEM DESIGN WITH ARM	EBH210	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITKGP
2	EMBEDDED SYSTEMS DESIGN	EBH211	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
3	CMOS DIGITAL VLSI DESIGN	EBH212	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITR
GRO	OUP III						
1	DATA ANALYSIS FOR BIOLOGISTS	EBH312	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITG
2	BIOENGINEERING: AN INTERFACE WITH BIOLOGY AND MEDICINE	ЕВНЗ13	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITB
3	COMPUTATIONAL SYSTEMS BIOLOGY	ЕВН314	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITM
4	INTRODUCTORY MATHEMATICAL METHODS FOR BIOLOGISTS	ЕВН315	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITB
		BIOM	EDICAL EN	GINEERING			
GRO	OUP I						
1	SIGNALS AND SYSTEMS	BMH112	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITM
2	COMPUTER VISION AND IMAGE PROCESSING - FUNDAMENTALS AND APPLICATIONS	BMH113	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITG
3	BIOMEDICAL SIGNAL PROCESSING	BMH114	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
4	PRINCIPLES OF SIGNALS AND SYSTEMS	BMH115	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITK
GRO	DUP II						



1	MICROSENSORS, IMPLANTABLE DEVICES AND RODENT SURGERIES FOR BIOMEDICAL APPLICATIONS	ВМН205	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc
2	BIOENGINEERING: AN INTERFACE WITH BIOLOGY AND MEDICINE	ВМН206	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITB
3	INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	ВМН207	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
4	SENSORS AND ACTUATORS	ВМН208	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc
GRO	OUP III						
1	DATA ANALYSIS FOR BIOLOGISTS	ВМН305	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITG
2	BIOENGINEERING: AN INTERFACE WITH BIOLOGY AND MEDICINE	ВМН306	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITB
3	DATA ANALYTICS WITH PYTHON	ВМН307	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITR
		AGRIC	ULTURAL EI	GINEERING			
GRO	OUP I						
1	INSTRUMENTATION AND PROCESS CONTROL IN FOOD INDUSTRY	AGH100	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
2	NOVEL TECHNOLOGIES FOR FOOD PROCESSING AND SHELF LIFE EXTENSION	AGH101	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
3	MACHINE LEARNING FOR SOIL AND CROP MANAGEMENT	AGH102	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
4	COOLING TECHNOLOGY: WHY AND HOW UTILIZED IN FOOD PROCESSING AND ALLIED INDUSTRIES	AGH103	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR



5	ORGANIC FARMING FOR SUSTAINABLE AGRICULTURAL PRODUCTION	AGH104	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
6	FUNDAMENTALS OF FOOD PROCESS ENGINEERING	AGH105	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
7	MICRO IRRIGATION ENGINEERING	AGH106	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
8	ADVANCED AQUACULTURE TECHNOLOGY	AGH107	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
9	SOIL FERTILITY AND FERTILIZERS	AGH108	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
10	THERMAL OPERATIONS IN FOOD PROCESS ENGINEERING: THEORY AND APPLICATIONS	AGH109	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
11	POST HARVEST OPERATIONS AND PROCESSING OF FRUITS, VEGETABLES, SPICES AND PLANTATION CROP PRODUCTS	AGH110	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
12	DAIRY AND FOOD PROCESS AND PRODUCTS TECHNOLOGY	AGH111	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
13	FOOD OILS AND FATS : CHEMISTRY AND TECHNOLOGY	AGH112	Honour MOOC	2019 Regulations	12 weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
		INDU	STRIAL ENG	HINEERING		l	
GRO	UP I						
1	MODELLING AND ANALYTICS FOR SUPPLY CHAIN MANAGEMENT	IEH112	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
2	SAFETY AND RISK ANALYTICS	IEH113	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
3	SUPPLY CHAIN ANALYTICS	IEH114	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT ROORKEE



ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS	IEH115	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc
PRODUCT ENGINEERING AND DESIGN THINKING	IEH116	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITKGP
FUZZY LOGIC AND NEURAL NETWORKS	IEH117	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITKGP
INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	IEH118	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
UP II						
MODELLING AND ANALYTICS FOR SUPPLY CHAIN MANAGEMENT	IEH200	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
SAFETY AND RISK ANALYTICS	IEH201	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
SUPPLY CHAIN ANALYTICS	IEH202	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS	IEH203	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc
PRODUCT ENGINEERING AND DESIGN THINKING	IEH204	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITKGP
FUZZY LOGIC AND NEURAL NETWORKS	IEH205	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IITKGP
INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	IEH206	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
BUSINESS ANALYTICS FOR MANAGEMENT DECISION	IEH207	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
E-BUSINESS	IEH208	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
	PRODUCT ENGINEERING AND DESIGN THINKING FUZZY LOGIC AND NEURAL NETWORKS INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS FUP II MODELLING AND ANALYTICS FOR SUPPLY CHAIN MANAGEMENT SAFETY AND RISK ANALYTICS ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS PRODUCT ENGINEERING AND DESIGN THINKING FUZZY LOGIC AND NEURAL NETWORKS INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS BUSINESS ANALYTICS FOR MANAGEMENT DECISION	SELECTED ADVANCED CONCEPTS RODUCT ENGINEERING AND DESIGN THINKING FUZZY LOGIC AND NEURAL NETWORKS IEH117 INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS WP II MODELLING AND ANALYTICS FOR SUPPLY CHAIN MANAGEMENT SAFETY AND RISK ANALYTICS SUPPLY CHAIN ANALYTICS ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS PRODUCT ENGINEERING AND DESIGN THINKING FUZZY LOGIC AND NEURAL NETWORKS IEH205 INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS BUSINESS ANALYTICS FOR MANAGEMENT DECISION IEH207 IEH207	SELECTED ADVANCED CONCEPTS IEH115 MOOC PRODUCT ENGINEERING AND DESIGN THINKING IEH116 Honour MOOC FUZZY LOGIC AND NEURAL NETWORKS IEH117 IEH117 HONOUR MOOC INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS IEH118 MODELLING AND ANALYTICS FOR SUPPLY CHAIN MANAGEMENT SAFETY AND RISK ANALYTICS IEH201 HONOUR MOOC SUPPLY CHAIN ANALYTICS IEH202 HONOUR MOOC SUPPLY CHAIN ANALYTICS ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS PRODUCT ENGINEERING AND DESIGN THINKING IEH203 HONOUR MOOC FUZZY LOGIC AND NEURAL NETWORKS IEH205 HONOUR MOOC INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS BUSINESS ANALYTICS FOR MANAGEMENT DECISION FUZION FUZION FUZION HONOUR MOOC HONOUR MOOC HONOUR MOOC FUZION HONOUR MOOC HONOUR MOOC HONOUR MOOC FUZION HONOUR MOOC	SELECTED ADVANCED CONCEPTS IEH115 MOOC Regulations PRODUCT ENGINEERING AND DESIGN THINKING FUZZY LOGIC AND NEURAL NETWORKS IEH117 Honour NDUSTRY 4.0 AND INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS MODELLING AND ANALYTICS FOR SUPPLY CHAIN MANAGEMENT ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS IEH203 HONOUR MOOC Regulations Honour MOOC Regulations Honour MOOC Regulations 1EH201 Honour MOOC Regulations 2019 Regulations 2019 Regulations 1EH200 Honour MOOC Regulations 1EH201 Honour MOOC Regulations 1EH202 Honour MOOC Regulations 1EH203 Honour MOOC Regulations 1EH204 Honour MOOC Regulations 1EH205 PRODUCT ENGINEERING AND DESIGN THINKING IEH205 Honour MOOC Regulations 1EH206 Honour MOOC Regulations 1EH207 Honour MOOC Regulations	SELECTED ADVANCED CONCEPTS IEH115 MOOC Regulations 12 Weeks PRODUCT ENGINEERING AND DESIGN THINKING IEH116 Honour MOOC Regulations 8 Weeks FUZZY LOGIC AND NEURAL NETWORKS IEH117 Honour MOOC Regulations 8 Weeks INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS MODELLING AND ANALYTICS FOR SUPPLY CHAIN MANAGEMENT SAFETY AND RISK ANALYTICS SUPPLY CHAIN ANALYTICS IEH202 Honour MOOC Regulations Regulations 8 Weeks ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS PRODUCT ENGINEERING AND DESIGN THINKING IEH204 Honour MOOC Regulations 12 Weeks Honour MOOC Regulations 12 Weeks ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS ROBOTICS: BASICS AND SELECTED ADVANCED CONC	SELECTED ADVANCED CONCEPTS Regulations Re



10	MANAGEMENT OF INVENTORY SYSTEMS	IEH209	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
11	OPERATIONS AND SUPPLY CHAIN MANAGEMENT	IEH210	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS
12	SIX - SIGMA	IEH211	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
13	PRODUCT DESIGN AND MANUFACTURING	IEH212	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR
14	INDUSTRIAL SAFETY ENGINEERING	IEH213	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
15	ENTREPRENEURSHIP ESSENTIALS	IEH214	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
		MECHANICA	AL PRODUCT	ION ENGINEE	RING		
GRO	OUP I						
1	FAILURE ANALYSIS AND PREVENTION	MPH110	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
2	ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS	MPH111	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc
3	MACHINERY FAULT DIAGNOSIS AND SIGNAL PROCESSING	MPH112	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
4	OPTIMIZATION FROM FUNDAMENTALS	MPH113	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT BOMBAY
5	AI IN MARKETING	MPH114	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
6	DATA ANALYSIS AND DECISION MAKING - I	MPH115	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR
7	WHEELED MOBILE ROBOTS	MPH116	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT MADRAS IIT PALAKKAD
8	PRODUCT DESIGN AND MANUFACTURING	MPH117	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR
9	DESIGN PRACTICE	MPH118	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KANPUR
GRO	OUP II		•				•



1	FAILURE ANALYSIS AND PREVENTION	MPH206	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT ROORKEE				
2	ROBOTICS: BASICS AND SELECTED ADVANCED CONCEPTS	MPH207	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc				
3	MACHINERY FAULT DIAGNOSIS AND SIGNAL PROCESSING	MPH208	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP				
4	OPTIMIZATION FROM FUNDAMENTALS	MPH209	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT BOMBAY				
5	AI IN MARKETING	MPH210	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROORKEE				
6	DATA ANALYSIS AND DECISION MAKING - I	MPH211	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR				
7	WHEELED MOBILE ROBOTS	MPH212	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT MADRAS IIT PALAKKAD				
8	DESIGN PRACTICE	MPH213	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KANPUR				
9	ADVANCED MACHINING PROCESSES	MPH214	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR				
10	INTRODUCTION TO MECHANICAL MICRO MACHINING	MPH215	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP				
11	INDUSTRIAL AUTOMATION AND CONTROL	MPH216	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP				
12	FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE	MPH217	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT GUWAHATTI				
		PROD	UCTION EN	GINEERING							
GRO	GROUP I										
1	COMPUTER INTEGRATED MANUFACTURING	PEH107	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR				
2	INTRODUCTION TO MECHANICAL MICRO MACHINING	PEH108	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP				
3	OIL HYDRAULICS & PNEUMATICS	PEH109	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS				



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4	STRATEGIES FOR SUSTAINABLE DESIGN	PEH110	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT HYDERABAD
5	ENERGY EFFICIENCY ACOUSTICS & DAYLIGHTING IN BUILDING	PEH111	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT DELHI
6	INTRODUCTION TO ROBOTICS	PEH112	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS
7	RAPID MANUFACTURING	PEH113	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR
GRO	UP II						
1	INTRODUCTION TO INTERNET OF THINGS	PEH206	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
2	INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	PEH207	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
3	INTRODUCTION TO MACHINE LEARNING	PEH208	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT MADRAS
4	DATA ANALYTICS WITH PYTHON	PEH209	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
5	BUSINESS ANALYTICS AND DATA MINING MODELLING USING R	PEH210	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
6	STRATEGIES FOR SUSTAINABLE DESIGN	PEH211	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT HYDERABAD
7	ENERGY EFFICIENCY ACOUSTICS & DAYLIGHTING IN BUILDING	PEH212	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT DELHI
8	FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE	PEH213	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT GUWAHATI
9	SYSTEM DESIGN FOR SUSTAINABILITY	PEH214	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT GUWAHATI
10	MACHINE LEARNING FOR ENGINEERING AND SCIENCE APPLICATIONS	PEH215	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS
GRO	UP III						
1	INTRODUCTION TO INTERNET OF THINGS	PEH306	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
2	INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS	РЕН307	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
3	INTRODUCTION TO MACHINE LEARNING	PEH308	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT MADRAS



4	DATA ANALYTICS WITH PYTHON	PEH309	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
5	BUSINESS ANALYTICS AND DATA MINING MODELLING USING R	РЕНЗ10	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROORKEE
6	MACHINE LEARNING FOR ENGINEERING AND SCIENCE APPLICATIONS	PEH311	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS
7	COMPUTER INTEGRATED MANUFACTURING	PEH312	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR
8	INTRODUCTION TO MECHANICAL MICRO MACHINING	РЕНЗ13	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IITKGP
9	OIL HYDRAULICS & PNEUMATICS	PEH314	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS
10	FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE	PEH315	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT GUWAHATI
11	INTRODUCTION TO ROBOTICS	PEH316	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS
12	RAPID MANUFACTURING	PEH317	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KANPUR
		INFO	RMATION TE	CHNOLOGY			
GRO	OUP I						
1	SOCIAL NETWORK ANALYSIS	ITH100	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT DELHI
2	SOCIAL NETWORKS	ITH101	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROPAR
3	DISCRETE MATHEMATICS	ITH102	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT ROPAR
4	DISCRETE MATHEMATICS	ITH103	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IISc (IIITB)
5	ADVANCED DISTRIBUTED SYSTEMS	ITH104	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT DELHI
6	DISTRIBUTED SYSTEMS	ITH105	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KANPUR
7	CLOUD COMPUTING	ITH106	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
8	GOOGLE CLOUD COMPUTING FOUNDATIONS	ITH107	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR
9	SOCIAL NETWORKS	ITH108	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS



10	CLOUD COMPUTING AND DISTRIBUTED SYSTEMS	ITH109	Honour MOOC	2019 Regulations	8 Weeks	NPTEL/ SWAYAM	IIT KANPUR
11	ADVANCED COMPUTER NETWORKS	ITH110	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT MADRAS
12	COMPUTER NETWORKS AND INTERNET PROTOCOL	ITH111	Honour MOOC	2019 Regulations	12 Weeks	NPTEL/ SWAYAM	IIT KHARAGPUR

