DEPARTMENT OF PRODUCTION ENGINEERING

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN – PART I			
Course Title	Data Analytics Lab		
Course Code	PR657	No. of Credits	2
Session	July 2021	Section (if, applicable)	
Name of Faculty	Dr S Kumanan Dr S Vinodh	Department	Production Engg
Email	kumanan@nitt.edu vinodh@nitt.edu	Telephone No.	0431-2503507/ 0431-2503520
E-mail		Telephone No.	
Course Type	[×] Core Lab course	[ ] Elective course	

Syllabus (approved in BoS)
M.Tech. (Industrial Engineering & Management) Curriculum and Syllabus with effect from July 2019 (Pages 15 and 16)

COURSE OBJECTIVES
M.Tech. (Industrial Engineering & Management) Curriculum and Syllabus with effect from July 2019 Syllabus Page 2

COURSE PLAN – PART II

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/ Contact Hours	Topic	Mode of Delivery
1	Week 1	Basic Statistics	Practice session and Discussion in Online Mode
2	Week 2	Correlation analysis	
3	Week 3	Regression analysis	
4	Week 4	Testing of Hypothesis (One Sample t- test)	
5	Week 5	Testing of Hypothesis (Two Sample t-test)	
6	Week 6	Testing of Hypothesis (Paired T-Test)	
7	Week 7	Testing of Hypothesis (ANOVA- One Way)	
8	Week 8	Testing of Hypothesis (ANOVA- Two Way)	
9	Week 9	Demonstration on Life Cycle Assessment module	
10	Week 10	Application based exercise	

Students will be using SPSS/Python/Systat/R – Prog/Minitab modules

COURSE ASSESSMENT METHODS (shall range from 4 to 6)				
S.No.	**Mode of Assessment**	**Week/Date**	**Duration**	**% Weightage**
1	Internal Assessment Weekly assignments.			70
2	Final Assessment (Viva Voce) physical presence			30

COURSE EXIT SURVEY - Feedback form

COURSE POLICY

MODE OF CORRESPONDENCE – Interaction in Online session

ATTENDANCE POLICY --As per Institute norms

FOR APPROVAL

Course Faculty _____ **CC-Chairperson** _____ **HOD** _____