

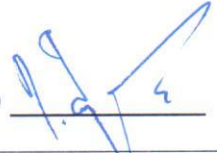


DEPARTMENT OF PRODUCTION ENGINEERING

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	<input checked="" type="checkbox"/> Core Lab course	<input type="checkbox"/> 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 <u>SPSS/Python/Systat/R – Prog/Minitab</u> modules			

COURSE ASSESSMENT METHODS (shall range from 4 to 6)				
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Internal Assessment <i>Weekly assignments.</i>			70
2	Final Assessment (Viva Voce) <i>physical presence</i>			30
COURSE EXIT SURVEY - Feedback form				
COURSE POLICY				
<u>MODE OF CORRESPONDENCE</u> – Interaction in Online session				
<u>ATTENDANCE POLICY</u> --As per Institute norms				
FOR APPROVAL				
Course Faculty		CC-Chairperson		HOD 

Signature