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 2018	**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)
https://www.nitt.edu/home/academics/departments/prod/programmes/mtech/curriculum/MTech-IE-Management-2015.pdf Pages 4 and 8

COURSE OBJECTIVES
https://www.nitt.edu/home/academics/departments/prod/programmes/mtech/curriculum/MTech-IE-Management-2015.pdf Page 8

COURSE PLAN – PART II

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/ Contact Hours	Topic	Mode of Delivery
1	Week 1	Basic statistics and Correlation	Practice in Data Analytics Lab
2	Week 2	Correlation and Regression analysis	
3	Week 3	Correlation and Regression analysis	
4	Week 4	Testing of Hypothesis-I(one sample t-test)	
5	Week 5	Testing of Hypothesis(Two sampled and paired t-test)	
6	Week 6	Testing of Hypothesis(Two sampled and paired t-test)	
7	Week 7	Testing of Hypothesis and ANOVA(one-way)	
8	Week 8	Analysis of Variance(one-way)	
9	Week 9	Analysis of Variance(one way and Two-way)	
10	Week 10	Cluster Analysis and Life Cycle Assessment using GaBi LCA software	

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

COURSE EXIT SURVEY - Feedback form

COURSE POLICY
MODE OF CORRESPONDENCE – Interaction in Lab **ATTENDANCE POLICY - As per Institute norms**