Finolex Academy of Management and Technology, Ratnagiri
Department of Information Technology

Class:	BE IT / Semester – VIII (Rev-2016)	Subject Code
Subject:	Python Lab.	ITL803
Semester:	First Half of 2020 (AY: 2019-20)	Schedule:
DOC	January 02, 2020	02 hours per week/batch

.... List of Practical assignments and plan of implementation........

No	Title	Exp. type	LO	PO	Plan
1	Understand the concept of DevOps with related technologies	Understand	1	1	Week 1
2	Install and configure Jenkins with necessary plugins	Understand	1,2	1,2	Week 2
3	Integrating Jenkins to the GitHub to automate the jobs with every commit on GitHub.	Apply	1,2	1,2	Week 3
4	Perform version control on software/web site using various version control systems	Apply	1,3	3,4	Week 4
5	Install and Configure Docker for creating containers of different operating systems image	Apply	1,4	3, 4	Week 5
6	Build, deploy and manage python based web application application on Docker	Apply	1,4	4,5	Week 6
7	install and configure Software Configuration Management using Chef/Puppet/Ansible or Saltstack	Understand	1,5	5,6,7	Week 7
8	Deploy docker image to Kubernetes	Apply	4	5,6,7	Week 8
9	**Case Study-1:** Uploading and downloading customized different operating systems images to the GitHub repository.	Create	3	11,12	Week 9
10	**Case Study-2: Pipeline as a code:Demo on how to use Blue Ocean with Jenkins**	Create	2	9,10,11	Week 10

Subject Teacher-   Head of Department-