



Design Lab I

SWAYAM Prabha Course Code – G15

PROFESSOR'S NAME	Prof. Kannan Moudgalya
DEPARTMENT	Chemical Engineering
INSTITUTE	Indian Institute of Technology, Bombay
COURSE OUTLINE	The course deals with two part: One is flowsheeting and the other is computation fluid dynamics. Flowsheeting deals with steady-state process simulation using open-source chemical process simulator DWSIM. Steady state process simulation includes simulating various unit operation such mixers, reactors, distillation column.

COURSE DETAILS

S. No	Module ID/ Lecture ID	Lecture Title/Topic
1	L1	Introduction
2	L2	Introduction to phase equilibrium calculations and flowsheeting
3	L3	Conversion reactor and multiple reactions
4	L4	PFR, CSTR and heterogeneous catalytic reactions
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References if Any: