COURSE CODE	COURSE NAME	L-T-P- Credits	Year of Introduction
CH334	PROGRAMMING AND PROCESS SIMULATION LAB	0-0-3-1	2016
Prerequisite: CH3	307 Computer programming in C++		
commercia	the skill to model and simulate various unit operations l simulators the ability to develop software programmes for simulat SYLLABUS	ing Chemical l	
	(Minimum of 5 exercises from each part is comp	ulsory)	
<ol> <li>Equation</li> <li>Phase end</li> <li>Phase end</li> <li>Chemical Aspention</li> <li>Mass Branch</li> <li>Simulal MATL</li> <li>Simulal MATL</li> <li>Chemical MATL</li> <li>Chemical MATL</li> <li>Transport MATL</li> <li>Process</li> <li>Part B</li> <li>Develop C</li> <li>Solution end</li> <li>Nonline</li> <li>Linear A</li> <li>Methods</li> <li>Solution</li> <li>Solution</li> <li>Solution</li> <li>Solution</li> </ol>	Balances with Recycle Streams: solution of problems us AB(Scilab)/ Aspen Plus tion of Mass Transfer Equipments: solution of problem AB(Scilab)/ Aspen Plus cal Reactors: solution of problems using MS Excel / M. ort Processes in One Dimension: solution of problems u AB(Scilab)/ Aspen Plus as simulation of typical chemical plants using Aspen Plu C++ programmes to implement the following numerica	ATLAB (Scila S Excel / MA ing MS Excel Is using MS Ex ATLAB(Scilal using MS Exce s/ HYSYS	b)/ Aspen Plus TLAB (Scilab)/ / kcel / b)/ Aspen Plus
	nlayson, Introduction to Chemical Engineering Compu	ting, Wiley In	terscience.
2. Aspen Plus	Building and running a process model: Manual from	Aspen Tech, U	JS.
3. Mohd. Kar	naruddin Abd Hamid, HYSYS: An introduction to Che	emical Engine	ering
Simulation	, http://eprints.utm.my/3030/2		