

SCHOOL OF ELECTRICAL ENGINEERING

Value Added Courses (2019 -2020)

Dynamic process simulation using flow sheet structure
Course Objective

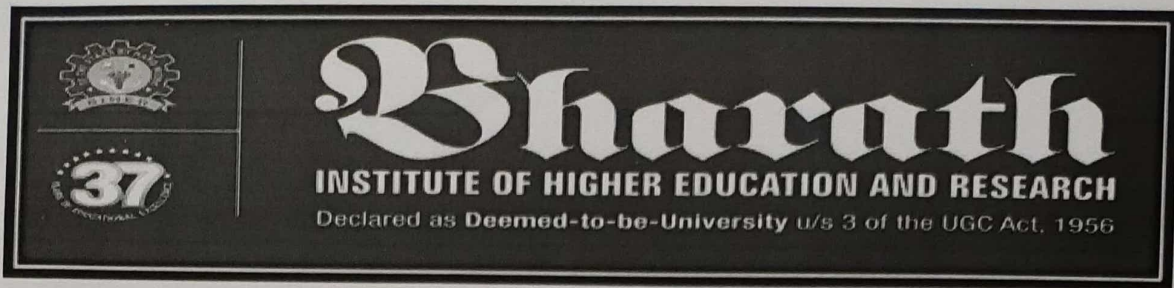
Process simulation is based on models. A model should mirror the reality at the degree of accuracy required by application. Having a good knowledge of the modeling background is compulsory for getting reliable results and using the software effectively. Flow sheeting is still dominated by the Sequential-Modular architecture, but incorporates increasingly features of the Equation-Oriented solution mode. A limited number of systems can offer both steady state and dynamic flow sheeting simulators

Resource Persons:

1. Dr.S.Arulselvi
2. Ms.M.Ramya
3. Ms.S.Philomina

Convener

Dr.M.Sangeetha
HOD/ECE



Requisition Letter

Date: 05.07.2019

From

The HOD,
ECE Department,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

To

The Dean Engineering,
Bharath Institute of Higher Education and Research,
Selaiyur, Chennai.

Respected Sir,

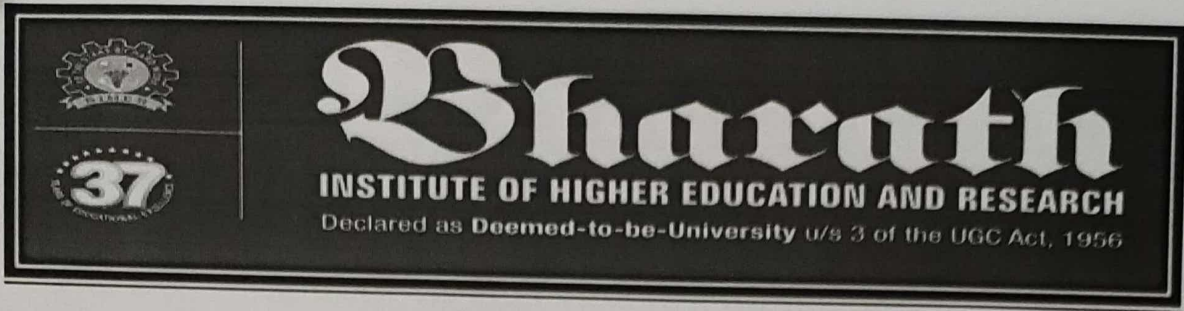
SUB: Requisition for conducting Value Added Course-Regd

School of Electrical Engineering has planned to conduct Value added Course on “**Dynamic process simulation using flow sheet structure**” on 25.07.2019. In this regard we kindly request you to grant permission for the same.

Thanking you

HOD/ECE

Dean Engineering



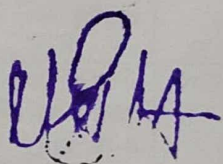
CIRCULAR

SCHOOL OF ELECTRICAL ENGINEERING

Date: 12.07.2019

The course on “**Dynamic process simulation using flow sheet structure**” is planned by School of Electrical Engineering which commences on 25-07-2019(Tuesday). In this regard the students are requested to give their willingness to Course Coordinator. It is instructed to actively participate and get benefitted for the certified course.

Course Coordinator: G.Meenakumari
Contact No: 9001485989
Email id :meenakumari.ece@bharathuniv.ac.in


(Dr.M.Sangeetha)
HOD/ECE

To,
Copy to ECE Department,
Copy to EEE Department,
Department Notice Board

SCHOOL OF ELECTRICAL ENGINEERING

Dynamic process simulation using flow sheet structure

SCHEDULE

Contact Hours: 32 hrs

DATE	SESSION	Contact Hours	TOPICS	Resource person
25-07-2019	FN	9.00 am to 12.30 pm	Principles of model formulation, Role and importance of steady-state and dynamic simulation.	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	Classification of models, Model building, Modeling difficulties.	Dr.S.Philomina
26-07-2019	FN	9.00 am to 12.30 pm	Degree-of-freedom analysis, Selection of design variables, Review of numerical techniques, Model simulation.	Dr.S.Arulselvi
	AN	1.30 pm to 4 pm	Equations of continuity, energy, momentum, and state, Transport properties, Equilibrium and chemical kinetics,	Ms. M.Ramya
27-07-2019	FN	9.00 am to 12.30 pm	Review of thermodynamic correlations for the estimation of physical properties like phase equilibria, bubble and dew points.	Dr.S.Philomina
	AN	1.30 pm to 4 pm	Constant and variable holdup CSTRs under isothermal and non-isothermal conditions, Stability analysis, Gas phase pressurized CSTR, Two phase CSTR	Ms. M.Ramya
28-07-2019	FN	9.00 am to 12.30 pm	Non-isothermal PFR, Batch and semi-batch reactors, Heat conduction in a bar, Laminar flow of Newtonian liquid in a pipe, Gravity flow tank, Single component vaporizer.	Dr.S.Arulselvi
	AN	1.30 pm to 5 pm	Multi-component flash drum, Absorption column, Ideal binary distillation column and nonideal multi-component distillation column, Batch distillation with holdup etc.	Dr.S.Philomina
29-07-2019	FN	9.00 am to 12.30 pm	Simulation: Simulation of the models, Sequential modular approach, Equation oriented approach.	Ms. M.Ramya
	AN	1.30 pm to 5 pm	Partitioning and tearing, Introduction and use of process simulation software (Aspen Plus/ Aspen Hysys) for flow sheet simulation.	Dr.S.Philomina

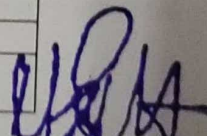
VALUE ADDED COURSE
SCHOOL OF ELECTRICAL ENGINEERING
Dynamic process simulation using flow sheet structure

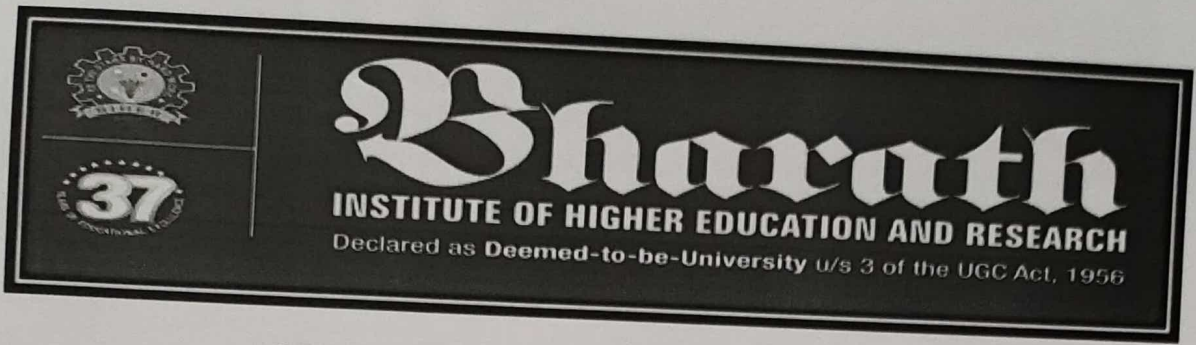
List of Participants

Date: 25.07.2019

S.NO	REG.NO	NAME OF THE CANDIDATE
1.	U16EC013	ANCHA KRISHNA REDDY
2.	U16EC014	BUGUDI RAMU
3.	U16EC015	GANJI BHARATHCHANDRA
4.	U16EC016	KATIKERI VENKATESH
5.	U16EC017	KOWSALYA K
6.	U16EC018	UNNAM SIVA KRISHNA
7.	U16EC020	RAUSHAN KUMAR
8.	U16EC021	ALIVELI CHARAN SAI
9.	U16EC022	BASIMALLA MARK RATNA BOSE
10.	U16EC023	THATIKONDA PREM SAI
11.	U16EC024	DASINENI ANUSHA
12.	U16EC025	KOLLUMALLA SHYAM NAGA SRI KIRAN
13.	U16EC026	SUNKU RAM NAVI CHAND
14.	U16EC027	J P HIMAVANTH
15.	U16EC028	THIRIVEEDI SUBBAMMA
16.	U16EC029	PEMMASANI KAVYA
17.	U16EC030	KAMASANI JYOTHI PRAKASH REDDY
18.	U16EC031	PEDINEEDI NAGARJUNA
19.	U16EC032	YANAMALA SREEKANTH REDDY
20.	U16EC033	MOTE KEERTHI
21.	U16EC034	ADDALA KRISHNA VAMSI
22.	U16EC035	GOKARAJU AJAY BABU
23.	U16EC036	MANE CHANDRAKANTH
24.	U16EC037	SANNUTHI VINAY NAGA PRANEETH
25.	U16EC038	TELLAMEKALA PRADEEP KUMAR
26.	U16EC039	MATTAPALLI SAI SRIKANTH YADAV
27.	U16EC040	PULI NAGANATH REDDY
28.	U16EC041	KOTTRA ANUSHA GOUD
29.	U16EC042	K RADHAKRISHNA
30.	U16EC043	KAPULURI MARUTHI RAO
31.	U16EC044	RAMPRASATH T
32.	U16EC045	KAPULURI VENKATESWARLU
33.	U16EC046	MUNGARA SRIHARIBABU
34.	U16EC047	VEMULA SIVA SANKAR VARAPRASAD
35.	U16EC048	GUDLURU SUMANTH

36.	U16EC049	KUCHULA SAIKUMAR REDDY
37.	U16EC050	KOTA VENKATA SIVA PRASAD REDDY
38.	U16EC051	GANGASANI SAI NANDA GOPAL REDDY
39.	U16EC052	POKALA SUDHARSHAN REDDY
40.	U16EC053	CHINTALA GANESH
41.	U16EC054	TAMATAM HARSHAK REDDY
42.	U16EC055	M DURGAPRASAD
43.	U16EC056	YANDRA SAI VENKAT
44.	U16EC057	AKASH KUMAR C
45.	U16EC058	BHASHAKARLA GOPIKRISHNA
46.	U16EC059	MADDIBOINA GIRI BABU
47.	U16EC060	MASANAM TARUN
48.	U16EC061	N E ANIL KUMAR
49.	U16EC062	KALLURI RAMA KSRISHNA
50.	U16EC063	YALAMANDALA SANDHYA
51.	U16EC064	RACHARLA VENKATNARAYAN
52.	U16EC065	A MAHESH
53.	U16EC066	MARAMREDDY MURALI MOHAN
54.	U16EC067	JIJARAPU SHIVA
55.	U16EC068	DINESH D
56.	U16EC069	BURLA MALLIKHARJUNA REDDY
57.	U16EC070	KATNAM SAIKUMAR
58.	U16EC071	YANAMALA VASU
59.	U16EC073	IMMADI KARTHIK
60.	U16EC074	VEMIREDDY NARASA REDDY
61.	U16EC075	MANGISHETTI RAVALI
62.	U16EC076	KOMMINENI DHARANI
63.	U16EC077	KAVALA HARI HARSHAVARDHAN
64.	U16EC078	VEMULA BHARATH
65.	U16EC079	POTHURAJU VENKATA NAGA SUBRAMANYAM
66.	U16EC080	SEELAM VISWANATH
67.	U16EC082	ABHISHEK RANJAN
68.	U16EC084	K VISHNU
69.	U16EC085	AJITH A K
70.	U16EC086	SUNDAR BORO
71.	U16EC087	MOHAMMED MARUF KHAN A
72.	U16EC088	TAMILARASAN N
73.	U16EC089	SARASWATHI REDDY SREE PHANI MONISH
74.	U16EC501	NANDIPATI AJAY REDDY
75.	U16EC503	L JEEVAN SAI KUMAR REDDY


(Dr.M.Sangeetha)
HOD/ECE



SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

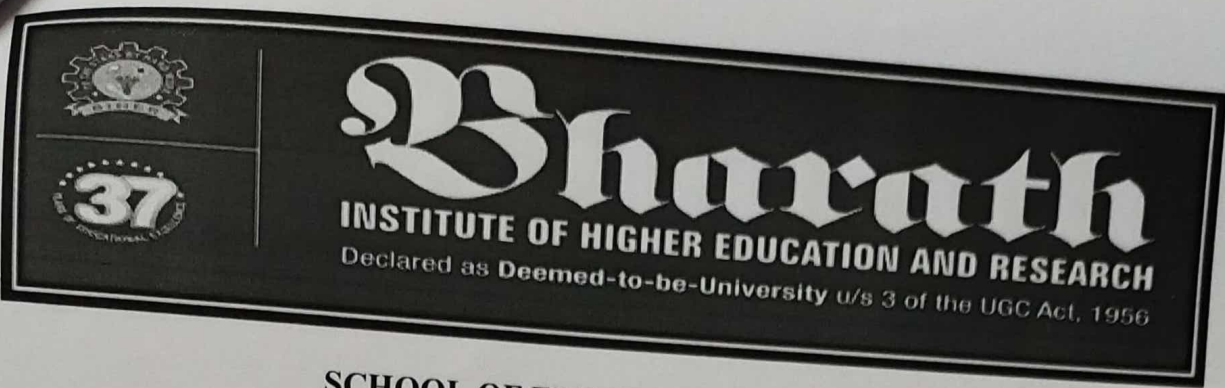
Dynamic process simulation using flow sheet structure

FEED BACK FORM

Date: 25.07.2019

Name	mote keerthi				
Register number	U16EC033				
	Poor	Fair	Good	Very Good	Excellent
Overall Program				✓	
The Speaker				✓	
Audio, Visual Aids Technology used					✓
Presentation hand outs				✓	


 Student Signature



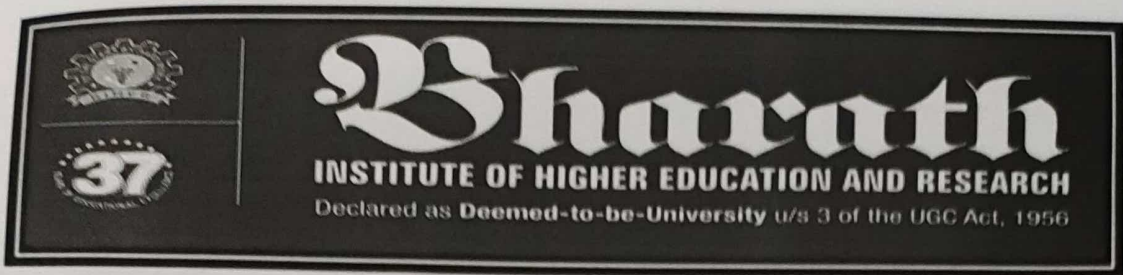
SCHOOL OF ELECTRICAL ENGINEERING

VALUE ADDED COURSE

Dynamic process simulation using flow sheet structure

FEED BACK FORM						Date 25.07.2019
Name	K. Vishnu					
Register number	U16EE084					
	Poor	Fair	Good	Very Good	Excellent	
Overall Program				✓		
The Speaker				✓		
Audio, Visual Aids Technology used					✓	
Presentation hand outs				✓		

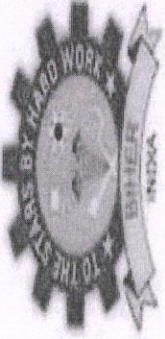
Vishnu
Student signature



SCHOOL OF ELECTRICAL ENGINEERING

Course on "Dynamic process simulation using flow sheet structure" dated on 25.07.2019
conducted by school of Electrical Engineering.





BSHoreoith
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



SCHOOL OF ELECTRICAL ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms. **RADHAKRISHNA K** has attended Values added Course on
“**Dynamic process simulation using flow sheet structure**” Organized by the school of
Electrical Engineering, BIHER conducted from 25-07-2019 to 29-07-2019.

Dr S Arulselvi
COURSE COORDINATOR

Dr. M. Sangeetha
CONVENOR