You Choose, We Do it

St. JOSEPH'S COLLEGE OF ENGINEERING

We Make You Shine

St. JOSEPH'S INSTITUTE OF TECHNOLOGY

St. Joseph's Group of Institutions

OMR,CHENNAI - 600 119

SUMMARY OF CLASS WORK

RECORD OF ATTENDANCE AND ASSESSMENT

Name of the Staff: N. Chidambaraj M.E. Ph.D.,

Department of the Staff : EEE

Semester From : June'18 To Sep'18

Class & Branch : III year EEE 'A'-SEC

Code No. / Subject Name : EE6501 - POWER SYSTEM ANALYSIS

EE6501 POWER SYSTEM ANALYSIS L T P C
3 0 0 3

OBJECTIVES:

- To model the power system under steady state operating condition.
- To apply numerical methods to solve the power flow problem.
- To model and analyze the system under faulted conditions.
- To model and analyze the transient behaviour of power system when it is subjected to a fault.

UNIT I INTRODUCTION 9

Need for system planning and operational studies – basic components of a power system.-Introduction to restructuring - Single line diagram – per phase and per unit analysis – Generator - transformer – transmission line and load representation for different power system studies.- Primitive network – construction of Y-bus using inspection and singular transformation methods – z-bus.

UNIT II POWER FLOW ANALYSIS 9

Importance of power flow analysis in planning and operation of power systems - statement of power flow problem - classification of buses - development of power flow model in complex variables form iterative solution using Gauss-Seidel method - Q-limit check for voltage controlled buses – power flow model in polar form - iterative solution using Newton-Raphson method .

UNIT III FAULT ANALYSIS – BALANCED FAULTS 9

Importance of short circuit analysis - assumptions in fault analysis - analysis using Thevenin's theorem – Z-bus building algorithm - fault analysis using Z-bus – computations of short circuit capacity, post fault voltage and currents.

UNIT IV FAULT ANALYSIS – UNBALANCED FAULTS 9

Introduction to symmetrical components – sequence impedances – sequence circuits of synchronous machine, transformer and transmission lines - sequence networks analysis of single line to ground, line to line and double line to ground faults using Thevenin's theorem and Z-bus matrix.

UNIT V STABILITY ANALYSIS 9

Importance of stability analysis in power system planning and operation - classification of power system stability - angle and voltage stability – Single Machine Infinite Bus (SMIB) system: Development of swing equation - equal area criterion - determination of critical clearing angle and time – solution of swing equation by modified Euler method and Runge-Kutta fourth order method.

TOTAL : 45 PERIODS

OUTCOMES:

Ability to understand and analyze power system operation, stability, control and protection.

TEXT BOOKS:

1. Nagrath I.J. and Kothari D.P., 'Modern Power System Analysis', Tata McGraw-Hill, Fourth Edition, 2011.
2. John J. Grainger and W.D. Stevenson Jr., 'Power System Analysis', Tata McGraw-Hill, Sixth reprint, 2010.
3. P. Venkatesh, B.V. Manikandan, S. Charles Raja, A. Srinivasan, ' Electrical Power Systems- Analysis, Security and Deregulation', PHI Learning Private Limited, New Delhi, 2012.

REFERENCES:

1. Hadi Saadat, 'Power System Analysis', Tata McGraw Hill Education Pvt. Ltd., New Delhi, 21st reprint, 2010.
2. Kundur P., 'Power System Stability and Control, Tata McGraw Hill Education Pvt. Ltd., New Delhi, 10th reprint, 2010.
3. Pai M A, 'Computer Techniques in Power System Analysis', Tata Mc Graw-Hill Publishing Company Ltd., New Delhi, Second Edition, 2007.
4. J. Duncan Glover, Mulukutla S. Sarma, Thomas J. Overbye, ' Power System Analysis & Design', Cengage Learning, Fifth Edition, 2012.
5. Olle. I. Elgerd, 'Electric Energy Systems Theory – An Introduction', Tata McGraw Hill Publishing Company Limited, New Delhi, Second Edition, 2012.
6. C.A.Gross, "Power System Analysis," Wiley India, 2011.

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SUMMARY OF CLASS WORK

RECORD OF ATTENDANCE AND ASSESSMENT

Name of the Staff: N. Chidambararaj ME., (Ph.D)

Department of the Staff : EEE

Semester From : June 2018 **To**

Class & Branch : III Year EEE 'A' Section

Code No. / Subject Name : EE6501 - Power System Analysis

TIME TABLE

Period / Day	1	2	3	4	5	6	7	8	9	10
Monday	EE 6501									
Tuesday			EE 6501							
Wednesday		EE 6501		EE 6501						
Thursday				EE 6501						
Friday							EE 6501			

LESSON PLAN

Unit : I From 18/06/18 To 13/07/18 No. of Hours : 16 hours

UNIT I INTRODUCTION

Target Period: 12 Planned Periods: 14

S.No	Topics to be Covered	Course Outcome	Hours Required	Text /Reference Book	Teaching Aid	PO
1.	Introduction to power system engineering.	C301.1	1	T1, R1 & R3	Power Point Presentation & Black Board	1, 2,3 & 4
2.	Need for system planning and operational studies	C301.1	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
3.	Basic components of a power system, Single line diagram- per phase and per unit analysis	C301.1	2	T1, R2 & R3	Power Point Presentation & Black Board	1, 2,3 & 4
4.	Reactance Diagram and Impedance Diagram, Assumptions made for drawing reactance diagram and Impedance diagram	C301.1	3	T1, R2 & R3	Black Board	1, 2,3 & 4
5.	Generator - transformer – transmission line and load representation for different power system studies	C301.1	1	T1, R1 & R3	Power Point Presentation & Black Board	1, 2,3 & 4
6.	Introduction to graph theory- Primitive network	C301.1	2	T1, R1 & R3	Black Board	1, 2,3 & 4
7.	construction of Y-bus using inspection and singular transformation methods	C301.1	2	T1, R1 & R3	Black Board	1, 2,3 & 4
8.	Introduction to restructuring	C301.1	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
9.	Formation of z-bus	C301.1	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
Assignment Submission		Date: 29/06/18				
Seminar/ Tutorial		Date: 30/06/18				
Internal Assessment Exam - I		Date: 16/07/18				

LESSON PLAN

Unit : II From 18/07/18 To 03/08/18 No. of Hours : 14 hours

UNIT II: POWER FLOW ANALYSIS

Target Period: 12 Planned Periods: 12

S.No	Topics to be Covered	Course Outcome	Hours Required	Text /Reference Book	Teaching Aid	PO
1	Importance of power flow analysis in planning and operation of power systems.	C301.2	1	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
2	Statement of power flow problem	C301.2	1	T1, R1 & R3	Power Point Presentation & Black Board	1, 2,3,4 & 5
3	Classification of buses- Slack, PV bus & PQ bus	C301.2	1	T2, R3	Power Point Presentation	1, 2,3,4 & 5
4	Development of power flow model in complex variables form	C301.2	1	T1, R1 & R3	Black Board	1, 2,3,4 & 5
5	Power flow model in polar form	C301.2	1	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
6	Iterative solution using Gauss-Seidel method- Flow Chart and Algorithm	C301.2	2	T1, R1 & R3	Black Board	1, 2,3,4 & 5
7	Q-limit check for voltage controlled buses	C301.2	1	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
8	Tutorial 1	C301.2	3	T1, R1 & R3	Black Board	1, 2,3,4 & 5
9	Iterative solution using Newton-Raphson method- Flow Chart and Algorithm	C301.2	2	T1, R1 & R3	Black Board	1, 2,3,4 & 5
10	Tutorial II Additional Topic : FDLF	C301.2	2	T1, R1 & R3	Black Board	1, 2,3,4 & 5

Assignment Submission Date: 02/08/18
Seminar/ Tutorial Date: 24/07/18
Internal Assessment Exam - II Date: 06/08/18

LESSON PLAN

Unit : III From 09/08/18 To 29/08/18 No. of Hours : 13 hours

UNIT-III- FAULT ANALYSIS – BALANCED FAULTS

Target Period: 12 Planned Periods: 13

S.No	Topics to be Covered	Course Outcome	Hours Required	Text /Reference Book	Teaching Aid	PO
1.	Importance of short circuit analysis	C301.3	1	R3, T1 & R1	Power Point Presentation	1, 2,3,4 & 5
2	Assumptions made in the Short Circuit analysis	C301.3	2	T1, T2, R3 & R1	Power Point Presentation & Black Board	1, 2,3,4 & 5
3	Formation of Z bus using Z-bus building algorithm	C301.3	2	T1, T2, R3 & R1	Power Point Presentation & Black Board	1, 2,3,4 & 5
4	Analysis of SC Analysis using Thevenin's theorem	C301.3	2	T1, T2, R3 & R1	Power Point Presentation & Black Board	1, 2,3,4 & 5
5	Tutorial - I	C301.3	2	T2, R3 & R1	Black Board	1, 2,3,4 & 5
6	fault analysis using Z-bus	C301.3	3	T1, R3 & R1	Black Board	1, 2,3,4 & 5
7	computations of short circuit capacity, post fault voltage and currents.	C301.3	1	T1, R3 & R1	Power Point Presentation	1, 2,3,4 & 5
8	Tutorial - II	C301.3	1	T1, R3 & R1	Black Board	1, 2,3,4 & 5
Assignment Submission		Date: 26/08/18				
Seminar/ Tutorial		Date: 10/08/18				
Internal Assessment Exam - III		Date: 27/08/18				

LESSON PLAN

Unit : IV From 30/08/18 To 19/09/18 No. of Hours : 16 hours

UNIT-IV- FAULT ANALYSIS – UNBALANCED FAULTS

Target Period: 12 Planned Periods: 13

S. No	Topics to be Covered	Course Outcome	Hours Required	Text /Reference Book	Teaching Aid	PO
1	Introduction to symmetrical components	C301.4	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
2	Sequence impedances – Sequence networks	C301.4	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
3	sequence circuits of synchronous machine, transformer and transmission lines	C301.4	1	T1, R1 & R3	Black Board	1, 2,3 & 4
4	Types of Unsymmetrical Fault Analysis, LL, LG, LLG fault	C301.4	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
5	Sequence networks analysis of single line to ground fault	C301.4	2	T1, R1 & R3	Black Board	1, 2,3 & 4
6	Sequence networks analysis of line to line fault	C301.4	1	T1, R1 & R3	Black Board	1, 2,3 & 4
7	sequence networks analysis of double line to ground faults using Thevenin's theorem	C301.4	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
8	Tutorial I	C301.4	2	T1, R1 & R3	Black Board	1, 2,3 & 4
9	Sequence networks analysis of single line to ground, line to line and double line to ground faults using Z-bus matrix.	C301.4	1	T1, R1 & R3	Power Point Presentation	1, 2,3 & 4
10.	Tutorial II	C301.4	2	T1, R1 & R3	Black Board	1, 2,3 & 4
Assignment Submission		Date: 06/09/18				
Seminar/ Tutorial		Date: 17/09/18				
Internal Assessment Exam - IV		Date: 14/09/2018				

UNIT V: STABILITY ANALYSIS

Target Period: 12

Planned Periods: 12

S. No	Topics to be Covered	Course Outcome	Hours Required	Text /Reference Book	Teaching Aid	PO
1	Importance of stability analysis in power system planning and operation	C301.5	1	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
2	Classification of power system stability- angle and voltage stability	C301.5	1	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
3	Single Machine Infinite Bus (SMIB) system	C301.5	1	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
4	Development of swing equation	C301.5	1	T1, R1 & R3	Power Point Presentation & Black Board	1, 2,3,4 & 5
5	Equal area criterion - determination of critical clearing angle and time	C301.5	2	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
6	Tutorial - I	C301.5	1	T1, R1 & R3	Black Board	1, 2,3,4 & 5
7	Solution of swing equation by modified Euler method	C301.5	1	T1, R1 & R3	Power Point Presentation & Black Board	1, 2,3,4 & 5
8	Solution of swing equation by Runge-Kutta fourth order method.	C301.5	1	T1, R1 & R3	Power Point Presentation	1, 2,3,4 & 5
9	Tutorial - II,III	C301.5	1	T1, R1 & R3	Black Board	1, 2,3,4 & 5
Assignment Submission		Date: 25/09/18				
Seminar/ Tutorial		Date: 26/09/18				
Model Exam - I		Date: 01/10/18				

STAFF SIGNATURE 29/05/18

HOD SIGNATURE 30/5/18

PRINCIPAL 30.05.18

DAILY RECORD OF CLASS WORK

Month & Year : June + July 2018

Date*	Day	Allotted Period	Period Handled	Reason for Alteration
18/06/18	Monday	1	1	–
19/06/18	Tuesday	3	3	–
20/06/18	Wednesday	2, 4	–	POP
21/06/18	Thursday	4	–	Advanced Data Structures
22/06/18	Friday	6	–	(IT BLOCK)
23/06/18	Saturday (Monday)	1	1	–
25/06/18	Monday	1	1	–
26/06/18	Tuesday	3	05/07/18 (2nd)	HOD Mam altered due to AICTE-ISTE FDP program.
27/06/18	Wednesday	2, 4	–	Department specific (VAC)
28/06/18	Thursday	4	–	
29/06/18	Friday	6	–	
30/06/18	Saturday	–	–	Holiday
02/07/18	Monday	1	1	–
03/07/18	Tuesday	3	3	–
04/07/18	Wednesday	2, 4	3, 4	There is a suffle in period due to FDP program.
05/07/18	Thursday	4	(2) 4	2nd hour HOD Mam period, Alteration.
06/07/18	Friday	6		
07/07/18	Saturday (Tuesday)	3		NSS Activity

09/07/18	Monday	1	1	–
10/07/18	Tuesday	3	3, 4	4th hour Dr. Vennathi mam hour, she went to (IV)
11/07/18	Wednesday	2, 4	2, 4	–
12/07/18	Thursday	4	4	–
13/07/18	Friday	7	7th	IAE Exam Orientation.
14/07/18	Saturday	–	–	
16/07/18	Monday	1	–	IAE - I
17/07/18	Tuesday	3rd	–	IAE - I
18/07/18	Wednesday	4th	4th	–
19/07/18	Thursday	4th	4th	–
20/07/18	Friday	7th	–	Ph.D Viva Voce Exam, Altered with HOD Mam
21/07/18	Saturday (Thursday)	4st	4st	–
23/07/18	Monday	1st	1st	–
24/07/18	Tuesday	3rd	3rd	–
25/07/18	Wednesday	2nd, 4th	2nd, 4th	–
26/07/18	Thursday	4th	—	Sports day (III rd year)
27/07/18	Friday	7th	7th	–
28/07/18	Saturday (Friday)	7th	—	Cancelled due to Intra-dept Symposium

* Holidays / CL and OD days to be mentioned against the corresponding dates

Signature of HOD : 6/8

DAILY RECORD OF CLASS WORK

Month & Year : July, Aug & Sep 2018

Date*	Day	Allotted Period	Period Handled	Reason for Alteration
30/07/18	Monday	1st	1st	—
31/07/18	Tuesday	3rd	3rd	—
01/08/18	Wednesday	2, 4th	2, 4th	—
02/08/18	Thursday	4th	4th	—
03/08/18	Friday	7th	7th	—
04/08/18	Saturday	—	—	Holiday.
06/08/18	Monday	1st	—	cancelled due to IAE-II
07/08/18	Tuesday	3rd	—	Ex-CM Mr. Karunanidhi Expired.
08/08/18	Wednesday	2, 4th	4th	2nd hour cancelled " "
09/08/18	Thursday	4	4th	—
10/08/18	Friday	7	—	Altered to Mr. P. Anbarasan sir
11/08/18	Saturday (Wed)	4	4	—
13/08/18	Monday	1st	NIL	IAE-II Exam.
14/08/18	Tuesday	3rd	3rd	—
15/08/18	Wednesday (Holiday)	—	—	Holiday
16/08/18	Thursday	4th	4th	—
17/08/18	Friday			Holiday (Ex. PM Expired)
18/08/18	Saturday			Holiday

20/08/18	Monday	1st	1st	—
21/08/18	Tuesday	3rd	3rd	—
22/08/18	Wednesday	—	—	Bakrid Holiday.
23/08/18	Thursday	4th	4th	—
24/08/18	Friday	7th	3rd & 7th	Mr. P. Anbarasan already handled on 10/08/18
25/08/18	Saturday (Friday)	7th	7th	
27/08/18	Monday	1st	—	Cancelled due to IAE-III
28/08/18	Tuesday	3rd	—	" " " "
29/08/18	Wednesday	2, 4th	4th	2nd cancelled due to IAE-III
30/08/18	Thursday	4th	4th	—
31/08/18	Friday	7th	7th	—
01/09/18	Saturday (Holiday)	—	—	Holiday.
03/09/18	Monday	1st	—	Cancelled due to IAE-III
04/09/18	Tuesday	3rd	3rd	—
05/09/18	Wednesday	2nd, 4th	2nd, 4th & 5th	Got the 5th hour from Mr. C. V. K
06/09/18	Thursday	4th	4th	—
07/09/18	Friday	7th	7th	—
08/09/18	Saturday (Holiday)			Holiday

* Holidays / CL and OD days to be mentioned against the corresponding dates

Signature of HOD : 10/9

DAILY RECORD OF CLASS WORK

Month & Year : Sep 2018

Date*	Day	Allotted Period	Period Handled	Reason for Alteration
10/09/18	Monday	1st	1st	—
11/09/18	Tuesday	3rd	3rd	—
12/09/18	Wednesday	2nd, 4th	2nd, 4th	—
13/09/18	Thursday	4th	—	Vinayagar chaturthi - Holiday
14/09/18	Friday	7th	—	Given to Dr. Venmathi man for already handl cla
15/09/18	Saturday (Thursday)	4th	4th	—
17/09/18	Monday	1st	—	cancelled due to IAE - IV
18/09/18	Tuesday	3rd	3rd	"
19/09/18	Wednesday	2nd, 4th	4th	2nd hour cancelled " "
20/09/18	Thursday	4th	4th	—
21/09/18	Friday	7th	7th	—
22/09/18	Saturday	—	—	Symposium.
24/09/18	Monday	1st	1st, 8th	—
25/09/18	Tuesday	3rd	3rd	—
26/09/18	Wednesday	2nd, 4th	2nd, 4th	—
27/09/18	Thursday	4th	6th, 4th	got the 6th hour from Dr. Venmathi Mam
28/09/18	Friday	7th	7th	—
29/09/18	Saturday			

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	Friday			
	Saturday			

* Holidays / CL and OD days to be mentioned against the corresponding dates

Signature of HOD :

ATTENDANCE

Roll No.	Reg.No.	Name	No. of Periods Attended			
			Report Period			
			1	2	3	4
	31231610 5001	Aadithya · S				
	5002	Aakash · T				
	5003	Aarthi · M				
	5004	Aatral Asaru · S				
	5005	Abarna · S				
	5006	Abdul Ashiq · A				
	5007	Abilash · A				
	5008	Abilash · R				
	5009	Adhithan · A				
	5010	Aishwarya · K				
	5011	Ajay · S				
	5012	Ajith kumar · R				
	5013	Ajith kumar · N				
	5014	Allan samuel · V				
	5015	Amarnath · MV				
	5016	Ananta kumar · D				
	5017	Anne Jenifer · P				
	5018	Antly Sumin · M·S				
	5019	Anto Akash · K				
	5020	Antony Doss · N				
	5021	Antony victor raj · S				
	5022	Aravindkan · B				
	5023	Asarindhan · N				
	5024	Asavind kumar · C				
	5025	Asavinth Raj · S				

MONTH	06	06	06	07	07	07	07	07	07	07	07	7	7
DATE	18	23	25	02	03	04	05	06	09	10	11	12	13
PERIOD	1	1	1	1	3	3,4	2 3	1	1	3 4	1 4	4	7
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ATTENDANCE

ll No.	Reg.No.	Name
	31231610 5001	Aadithya . S
	5002	Aakash . T
	5003	Aarthi . M
	5004	Aatral Asaru . S
	5005	Abarna . S
	5006	Abdul Ashiq . A
	5007	Abilash . A
	5008	Abilash . R
	5009	Adhithan . A
	5010	Aishwarya . K
	5011	Ajay . S
	5012	Ajith Kumar . R
	5013	Ajith Kumar . N
	5014	Allan Samuel . V
	5015	Amarnath . MV
	5016	Ananta Kumar . D
	5017	Anne Jenifer . P
	5018	Antly Sumin . M . S
	5019	Anto Akash . K
	5020	Antony Doss . N
	5021	Antony Victor Raj . S
	5022	Aravindkan . B
	5023	Aravindhan . N
	5024	Aravind Kumar . C
	5025	Aravinth Raj . S

CONTINUOUS ASSESSMENT

ASSESSMENT TYPE	IAE I	IAE -I	IAE -II	IAE -II	IAE -III	IAE -III	IAE -IV	
DATE	16/09/18	Repeat	06/8/18	Repeat	27/08/18	Repeat	14/09/18	R
	58		68		50		AB	
	44		46		48		37	
	65		72		72		68	
	41		29	38	40		44	
	53		57		61		34	
	54		43		45		45	
	45		60		50		62	
	60		62		71		60	
	26	48	50		46		45	
	63		70		62		70	
	67		75		65		70	
	54		66		72		50	
	25	59	23	48	63		54	
	28	24	37		63		38	
	38		47		54		45	
	42		26	36	51		38	
	68		50		70		60	
	65		75		75		68	
	36		35		45		44	
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	62		59		50		59	
	65		52		62		66	
	63		61		60		58	
	60		75		73		70	
	53		46		48		36	

ATTENDANCE

Roll No.	Reg.No.	Name	No. of Periods Attended — Report Period 1	2	3	4
	31231610 5026	Arun. G.B				
	5027	Arut prakash. K.				
	5028	Arya. J.R.				
	5029	Ashwath Narayanan. S				
	5030	Ashwin. G.				
	5031	Ashwinnath. S.				
	5032	Aswinraj. A.				
	5033	Aswin Vedhamoorthi NPN				
	5034	Austilin. C				
	5035	Balaramana. T				
	5037	Benjamin. J.				
	5038	Beryl. M.				
	5039	Bhoranitharan. P				
	5040	Boobesh Raj. S				
	5041	Clinton Joel. J				
	5042	Darshan. R				
	5043	Deepak Kumar. S.				
	5044	Deepak Sundar. N				
	5045	Deepan kumar. S.				
	5046	Deepthi. cha				
	5047	Deivanayagam. S				
	5302	Arunachalam.				
	5306	Krishna kumar Raja GR				
	5309	Prakash. H.				
	5310	Purushottaman. S				

MONTH	06	06	06	07	07	07	07	07	07	07	07	07	7
DATE	18	23	25	2	3	4	5	6	9	10	11	12	13
PERIOD	1	1	1	1	2	3,4	2 3	1	1	3 4	1 4	4	7
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	/	/	/	/	/	/	/	/	/	/	/	/	/
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	A	/	/	/	/	/	/	/	/	/	/	/	a
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ATTENDANCE

Roll No.	Reg.No.	Name
	31231610 5026	Arun. G.B
	5027	Arut prakash. K.
	5028	Arya. J.R.
	5029	Ashwath Narayanan
	5030	Ashwin. G
	5031	Ashwinnath. S
	5032	Aswinraj. A
	5033	Aswin Vedhamoorthi
	5034	Austilin. C
	5035	Balaramana. T
	5037	Benjamin. J.
	5038	Beryl. M.
	5039	Bhoranitharan. P
	5040	Boobesh Raj. S
	5041	Clinton Jai. J
	5042	Darshan. R
	5043	Deepak Kumar. S
	5044	Deepak Sundar. N
	5045	Deepan Kumar. S.
	5046	Deepthi cha
	5047	Delvanayagam. S
	5302	Arunachalam.
	5306	Krishna Kumar Raj
	5309	Prakash. H.
	5310	Purushothaman. S

CONTINUOUS ASSESSMENT

IAE -I	IAE -I	IAE -II	IAE -II	IAE -III	IAE -III	IAE -IV	IA
16/8/18	Repeat	06/8/18	Repeat	27/08/18	Repeat	14/09/18	Re
27	34	34		34		42	
52		36		48		47	
64		62		63		68	
47	34	40		34		34	
68		71		55		70	
43		52		58		42	
64		53		55		44	
36		47		45		38	
48		60		74		68	
34		23	50	45		34	
34		06	18	58		21	
75		70		70		58	
54		69		71		62	
71		61		68		70	
60		65		65		68	
59		64		52		54	
41		46		52		69	
34		60		55		54	
41		57		52		52	
68		74		73		73	
61		43		55		42	
40		43		52		53	
48	AB	47		48		34	
34		09	35	52		18	

Unit - I Introduction

Syllabus Dictate & Overview about entire five units. Load flow studies, fault Analysis and stability studies.

DATE: 19/06/18 PERIOD: 3 TOTAL NO. OF CLASS 2 UNIT: I

Need for system planning and operational studies
Basic definition: power system
Modern power systems
components of power system & its symbols

DATE: 23/06/18 PERIOD: 1 TOTAL NO. OF CLASS 3 UNIT: I

Single line diagram (SLD)
purpose of single line diagram
per phase representation
per unit Value = $\frac{\text{Actual Value}}{\text{Base Value}}$

SUMMARY OF CLASS WORK

DATE: [illegible] PERIOD: 1 TOTAL NO. OF CLASS 4 UNIT: I

Need for base values
Advantages of pu system.
Equivalent circuit of power system Components
(Gen, T/F, Tr. line and motor)

DATE: 02/07/18 PERIOD: 1 TOTAL NO. OF CLASS 5 UNIT: I

Impedance diagram & its approximation made.
Reactance diagram & its approximation made.
For a sample SLD, draw its

DATE: 03/07/18 PERIOD: 3 TOTAL NO. OF CLASS 6 UNIT: I

* Change of Base Values
* procedure to form impedance or reactance diagram from SLD.
* problems on pu reactance diagram (Pb.NO 2 & 3)

DATE: 5/07/18 PERIOD: 2,3 TOTAL NO. OF CLASS 9 UNIT: I

Problems on pu Reactance diagram continuation

DATE: 06/07/18 PERIOD: 1 TOTAL NO. OF CLASS 10 UNIT: I

Problems on pu Reactance diagram continuation

SUMMARY OF CLASS WORK

DATE [illegible] PERIOD: 1 TOTAL NO. OF CLASS [illegible] UNIT: I

Formation of Y_{bus} Matrix → Defn, Rules & Applica

Types of Y_{bus} formation

(i) By Inspection Method

(ii) By singular transformation Metho

DATE: 10/07/18 PERIOD: 3,4 TOTAL NO. OF CLASS 12 UNIT: I

Formation of Y_{bus} Matrix by using Inspection Me

(i) Without half line charging admittance

(ii) With half line charging admittance

DATE: 11/07/18 PERIOD: 1,4 TOTAL NO. OF CLASS 14 UNIT: I

$Z_{primitive}$, $Y_{primitive}$

7. $Y_{bus} = [A][Y_{primitive}][A]^T$.

DATE: 13/07/18 PERIOD: 7 TOTAL NO. OF CLASS 16 UNIT: I

Problems based on Singular transformation Method Continuation

Z_{bus} & its simple problem $Z_{bus} = \frac{1}{Y_{bus}}$.

DATE: 18/07/18 PERIOD: 4th TOTAL NO. OF CLASS 1 UNIT: II

Unit - II Power flow (or) load flow Analysis

Introduction - Syllabus dictate & overview about power flow problems

[redacted]

DATE: [redacted] PERIOD: [redacted] TOTAL NO. OF CLASS [redacted] UNIT: [redacted]

Importance of power flow analysis in planning and operation of power systems

DATE: 21/07/18 PERIOD: 4th TOTAL NO. OF CLASS UNIT: II

Bus and its classification.

1) Slack bus
2) PV bus
3) PQ (load) bus

DATE: 23/07/18 PERIOD: 1st TOTAL NO. OF CLASS UNIT: II

Classification of bus and its definition

Continuation.

24/8

Sign of HOD with Date

Complex Variables form

DATE: 25/07/18 PERIOD: 2nd TOTAL NO. OF CLASS UNIT: II

Power flow model in polar form

Solution of load flow problem

1) Gauss seidal method

2) Newton Raphson method

DATE: 26/07/18 PERIOD: 2nd TOTAL NO. OF CLASS UNIT: II

Iterative solution using Gauss-seidal Method

- Flow chart and Algorithm

SUMMARY OF CLASS WORK

DATE: 27/07/18 PERIOD: 1st TOTAL NO. OF CLASS UNIT: II

Q-limit check for voltage controlled buses.

DATE: 31/07/18 PERIOD: 3,5 TOTAL NO. OF CLASS UNIT: II

Problems on Gauss seidal Method.

Problems NO (1) & (2)

DATE: 01/08/18 PERIOD: 2 TOTAL NO. OF CLASS UNIT: II

Problems on Gauss seidal method

Continuation. problem NO (3) & (4)

— Jacobian element calculations

DATE: 02/08/18 PERIOD: 4th TOTAL NO. OF CLASS UNIT: II

Problems on Newton Raphson method (for two bus system)

DATE: 03/08/18 PERIOD: 7th TOTAL NO. OF CLASS UNIT: II

Problems on Newton Raphson method continued (for 3 bus system)
Comparison between Gauss seidal & Newton Raphson method
Additional topic : FDLF (Dc load flow)

SUMMARY OF CLASS WORK

DATE: 14/08/18 PERIOD: 2nd TOTAL NO. OF CLASS 1 UNIT: III

Unit - III

Symmetrical fault Analysis

Introduction & Syllabus dictate & Overview about fault Analysis

DATE: 14/08/18 PERIOD: 3rd, 4th TOTAL NO. OF CLASS 2 UNIT: III

Introduction — Fault, causes of fault, Types of faults (1) Balanced fault (3Ø fault)
(2) Unbalanced fault (LL, LG, LLG fault)
Sym fault
Assumptions made in Short circuit Analysis

DATE: 16/08/18 PERIOD: 4th, 5th TOTAL NO. OF CLASS 4 UNIT: III

Fault calculations:
1) Using KVL & KCL
2) Using thevenin's theorem
3) Using Z bus building technique

Sign of HOD with Date

Problems based on 3Ø fault

DATE: 21/08/18 PERIOD: 3rd TOTAL NO. OF CLASS 6 UNIT: III

Problems based on symmetrical fault (3Ø fau
continuation

DATE: 23/08/18 PERIOD: 4th TOTAL NO. OF CLASS 7 UNIT: III

Radial network problems on symmetrical fault

SUMMARY OF CLASS WORK

DATE: 24/08/18 PERIOD: 2nd, 7th TOTAL NO. OF CLASS 9 UNIT: III

Problems on balanced faults

DATE: 25/08/18 PERIOD: 5th + 7th TOTAL NO. OF CLASS 11 UNIT: III

Problems continuation on balanced fault
Using thevenin's theorem method.

DATE: 28/08/18 PERIOD: 5th TOTAL NO. OF CLASS 12 UNIT: III

Symmetrical fault Analysis by Z-bus Method (
Digital computer approach for a 3Ø fault
Flow chart & step by step Algorithm

29/8/18

Unit - III Revision

DATE: 30/08/18 PERIOD: 4th TOTAL NO. OF CLASS 1 UNIT: IV

Unit - IV Unsymmetrical fault Analysis.

Introduction - Syllabus dicate - Types of Unsym. f
1) LL
2) LG
3) LLG.

Introduction to symmetrical components

DATE: 31/08/18 PERIOD: 7th TOTAL NO. OF CLASS 1 UNIT: IV

Problems bared on symmetrical components

$$\begin{bmatrix} V_a \\ V_b \\ V_c \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 \\ 1 & a^2 & a \\ 1 & a & a^2 \end{bmatrix} \begin{bmatrix} V_{a0} \\ V_{a1} \\ V_{a2} \end{bmatrix} \quad \& \quad \begin{bmatrix} V_{a0} \\ V_{a1} \\ V_{a2} \end{bmatrix} = \frac{1}{3} \begin{bmatrix} 1 & 1 & 1 \\ 1 & a & a^2 \\ 1 & a^2 & a \end{bmatrix} \begin{bmatrix} V_a \\ V_b \\ V_c \end{bmatrix}$$

SUMMARY OF CLASS WORK

DATE: 04/09/18 PERIOD: 3rd TOTAL NO. OF CLASS 3 UNIT: IV

114 for current Vectors $\begin{bmatrix} I_a \\ I_b \\ I_c \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 \\ 1 & a^2 & a \\ 1 & a & a^2 \end{bmatrix} \begin{bmatrix} I_{a0} \\ I_{a1} \\ I_{a2} \end{bmatrix}$

Sequence Impedance & Sequence networks

Basic Definitions.

DATE: 05/09/18 PERIOD: 3rd TOTAL NO. OF CLASS 4 UNIT: IV

Sequence network of an Unloaded generator

$V_{a0} = -I_{a0} Z_0$

$V_{a1} = E_{a1} - I_{a1} Z_1$

$V_{a2} = -I_{a2} Z_2$.

114 Sequence network Y-connected loads

DATE: 05/09/18 PERIOD: 4th+5th TOTAL NO. OF CLASS 6 UNIT: IV

Sequence impedance and network of a tr lines

Sequence impedance & network of a transform

+ve seq n/w, -ve seq n/w and Zero seq n/w

Sign of HOD with Date

DATE: 07/09/18 PERIOD: 7th TOTAL NO. OF CLASS 9 UNIT: IV

* Types of unbalanced faults.
  1) LG fault
  2) LL fault
  3) Double line to gnd fault.
* Causes of unbala fault
* Procedure for S.C Analysis of unbalanced syst

DATE: 11/09/18 PERIOD: 3rd TOTAL NO. OF CLASS 10 UNIT: IV

Single line to ground fault - Derivation.
Single line to ground fault using Z bus

$$I_f = 3I_{a1}$$
$$= 3\frac{E_a}{Z_1+Z_2+Z_0+3Z_f}$$

SUMMARY OF CLASS WORK

DATE: 11/09/18 PERIOD: 3rd TOTAL NO. OF CLASS 12 UNIT: IV

Derivation of line to line fault
Line to line fault using Z bus

$$I_f = I_b = \frac{3I_{a1}}{(a-a^2)} = \frac{3}{(a-a^2)}\cdot\frac{E_a}{(Z_1+Z_2+Z$$

DATE: 11/09/18 PERIOD: 4th + 5th TOTAL NO. OF CLASS 13 UNIT: IV

Derivation of Double line to ground fault of an unloaded generator.
Double line to ground fault using Z bus

$$I_{a1} = \frac{E_a}{Z_1 + (Z_2 \| (Z_0+3Z_f))}$$

DATE: 12/09/18 PERIOD: 2nd + 4th TOTAL NO. OF CLASS 15 UNIT: IV

Problems based on unbalanced fault Analys
problems on LL, LG & LLG faults

Sign of HOD with Date

Flowchart & Algorithm

DATE: 19/09/18 PERIOD: 4th TOTAL NO. OF CLASS 16 UNIT: IV

If calculation using Z-bus Method
(Bus Building Algorithm Approach)
Problems based on the above topic.
Unit - IV Revision.

DATE: 20/09/18 PERIOD: 4th TOTAL NO. OF CLASS UNIT: V

Unit - V Stability Analysis
Introduction — Syllabus dictate.
Overview about power system stability Analysis

SUMMARY OF CLASS WORK

DATE: 21/09/18 PERIOD: 7th TOTAL NO. OF CLASS UNIT: V

Types of P.S stability < Steady state stabi
Transient "

* Voltage stability
* frequency "
* Rotor angle stability

DATE: 24/09/18 PERIOD: 1st, 8th TOTAL NO. OF CLASS UNIT: V

Power angle curve $P = \frac{|E||V|}{X_d} \sin\delta$.

Swing equation

$$\frac{GH}{\pi f}\frac{d^2\delta}{dt^2} = P_a = P_m - P_e.$$

DATE: 25/09/18 PERIOD: 3rd TOTAL NO. OF CLASS UNIT: V

Methods of reducing transfer reactance
Assumptions made in Swing equation
Introduction to Equal area criterion

SUMMARY OF CLASS WORK

DATE: 26/09/18 PERIOD: 2nd, 4th TOTAL NO. OF CLASS UNIT: V

Application of Equal area criterion (EAC)

* Critical clearing angle (δc)
  Critical clearing time (tc)

DATE: 27/09/18 PERIOD: 4th, 6th, TOTAL NO. OF CLASS UNIT: V

Problems based on swing equation, inert Constant calculation, tc and δc.

DATE: 28/09/18 PERIOD: 7th TOTAL NO. OF CLASS UNIT: V

Solution of swing equation

1) Modified Euler's method
2) Runga kutta method.

Unit-5 Revision for Model exam

Solution of swing equation

1) Modified Euler's method
2) Runga kutta method

Unit-5 Revision for Model exam

SUMMARY OF CLASS WORK

DATE	PERIOD	TOTAL NO. OF CLASS	UNIT

DATE:	PERIOD:	TOTAL NO. OF CLASS	UNIT :

DATE:	PERIOD:	TOTAL NO. OF CLASS	UNIT :

Sign of HOD with Date

RESULT ANALYSIS

TERM - I

S.No	Description		IAE - I	IAE - II
1	Date of Exam	:	16/07/2018	06/08/2018
2	Total No. of Students	:	51	51
3	No of Students Attended	:	48	50
4	No of Students Passed	:	44	42
5	Percentage of Pass	:	91.667 %	84 %
Signature of the Staff		:		
Name of the Staff		:	N. chidambaram	N. chidambaram
Signature of the HOD of the Concerned Department with Date (After distributing the answer scripts)		:		

Range of Marks		0 - 33	34 - 45	46 - 53	54 - 60	61 - 68	69 - 75
No. of Students	IAE - I	04	11	04	12	15	02
	IAE - II	08	08	11	06	08	09

Range of Marks	0 - 44	45 - 60	61 - 70	71 - 80	81 - 90	91 - 100
No. of Students (IAE I & II Combined)	09	09	09	05	13	06

Signature of the HOD of the Concerned Department :

RESULT ANALYSIS

TERM - II

S.No	Description		IAE - III	IAE - IV
1	Date of Exam	:	27/08/2018	14/09/2018
2	Total No. of Students	:	51	51
3	No of Students Attended	:	50	50
4	No of Students Passed	:	48	42
5	Percentage of Pass	:	96 %	84 %
Signature of the Staff		:	31/08/18	18/09/18
Name of the Staff		:	N. Chidambararaj	N. Chidambararaj
Signature of the HOD of the Concerned Department with Date (After distributing the answer scripts)		:	3/9/18	18/9

Range of Marks		0 - 33	34 - 45	46 - 53	54 - 60	61 - 68	69 - 75
No. of Students	IAE - III	02	08	14	08	09	09
	IAE - IV	06	17	04	09	08	06

Range of Marks	0 - 44	45 - 60	61 - 70	71 - 80	81 - 90	91 - 100
No. of Students (IAE III & IV Combined)	04	13	10	07	11	06

Signature of the HOD of the Concerned Department : 18/9

RESULT ANALYSIS

MODEL EXAMINATION

1	Date of Exam	: 01/10/2018
2	Total No. of Students	: 51
3	No of Students Attended	: 50
4	No of Students Passed	: 42
5	Percentage of Pass	: 84%

RESULT ANALYSIS

Range of Marks	0 - 44	45 - 60	61 - 70	71 - 80	81 - 90	91 - 100
No. of Students	08	16+1	11	07	03	04

Signature of the Staff : 04/10/18

Name of the Staff : Dr. N. Chidambararaj

Signature of the HOD of the Concerned Department with Date (After distributing the answer scripts) : 10/10/18

SYLLABUS COVERAGE

Unit No.	Started on	Completed on	No. of hours	Sign of staff with Date	Sign of HOD with Date
I	18/06/18	13/07/18	16	300618	
II	18/07/18	03/08/18	14	030818	
III	09/08/18	29/08/18	13	290818	
IV	30/08/18	19/09/18	16	190918	
V	20/09/18	28/09/18	10	280918	

REMARKS

S.No.	Date	Remarks/Comments/Deviations, if any	HOD Signature with Date
1.	13/06/18	In unit-I, 2 Extra hours taken to revise pu reactance diagram :—.	
2.	03/08/18	Two Extra hours taken to solve some additional problems in Newton-Raphson Method :—.	
3.	19/09/18	Three Extra hours taken to complete Unit-IV by solving some extra problems	

REGNO :

St. JOSEPH'S COLLEGE OF ENGINEERING
St. JOSEPH'S INSTITUTE OF TECHNOLOGY
INTERNAL ASSESSMENT EXAM III - August 2018

Subject : Power System Analysis **Code : EE6501**
Branch : EEE **Sem : V**
DURATION : 2 hours **MAX MARKS: 75**

PART - A (15 X 2 = 30 Marks)

1. How the shunt and series fault are classified?
2. Find the fault current in figure, if the pre fault voltage at the fault point is 0.97p.u?
3. Name the main differences in representation of power system for load flow and

PAPER

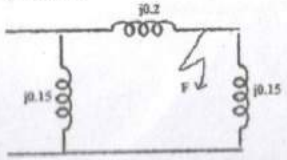
REGNO :

St. JOSEPH'S COLLEGE OF ENGINEERING
St. JOSEPH'S INSTITUTE OF TECHNOLOGY
MODEL EXAM - October 2018

bject : Power System Analysis **Code : EE6501**
anch : EEE **Sem : V**
URATION : 3 hours **MAX MARKS: 100**

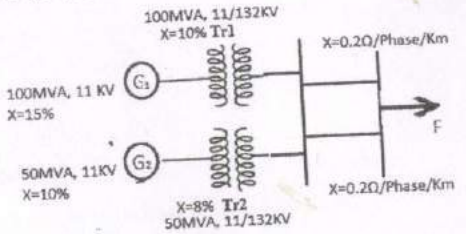
PART - A (10 X 2 = 20 Marks)

. The base KV and base MVA of a 3-phase transmission line is 33KV and 10 MVA respectively calculate the base current and base impedance?
. A generator rated at 30MVA, 11KV has a reactance of 20% calculate its p.u reactance for a base of 50 MVA and 10KV.
. What are the advantages and disadvantages of G-S method?
. Define voltage controlled bus.
. What is Short Circuit MVA and how it is calculated?
. Find the fault current in figure, if the pre fault voltage at the fault point is 0.97p.u?



7. State the reason why, the negative sequence impedance of a transmission line is taken as equal to positive sequence impedance of the line.
8. Write the symmetrical component current of phase 'a' in terms of 3φ currents.

17. Explain systematic symmetrical fault analysis using Z_{bus} matrix. (15)
18. The figure shows a generating station feeding a 132 KV system. Determine the total fault current, fault level and fault current supplied by each alternator for a 3ϕ fault at the receiving end bus .The line is 200 Km long. Take a base of 100 MVA, 11 KV for LV side and 132 KV for HT side. (15)

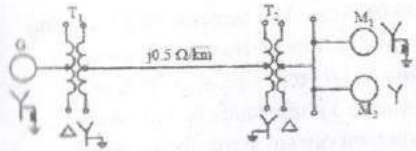


$-j3.81$
$3.81\angle -90$
$I_f = 1666.64A$
$S_{sc} = 881\angle -90°$

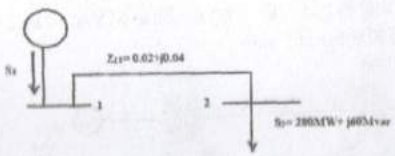
(ii) Draw the π-Model representation of a transformer with off nominal tap ratio 'α'.

OR

11.b 300 MVA, 20 kV, 3ϕ generator has sub transient reactance of 20%. The generator supplies two synchronous motors through a 64 km transmission line having transformers at both ends as shown in Fig. In this, T1 is a 3ϕ transformer 350 MVA, 20/230 kV, 10% reactance & Transformer T2 is made of 3 single phase transformer of rating 100 MVA, 127/13.2 kV, 10% reactance. Series reactance of the transmission line is 0.5/km. The ratings of 2 motors are : M1 = 200 MVA, 13.2 kV, 20% & M2 = 100 MVA, 13.2 kV, 20%.Draw the reactance diagram with all the reactance's marked in p.u. (13)



12.a In the power system network shown in figure, bus 1 is slack bus with V_1= 1.0+j 0.0 pu and bus 2 is a load bus with S_2= 280MW+j60 MVAr. The line impedance on a base of 100 MVA is Z= 0.02+j0.04 pu. Using Gauss Seidal method, determine V_2. Use an initial estimate of $V_2^{(0)}$ = 1.0+j0.0 and perform four iterations. Also find S_1 and the real, reactive power loss in the line, assuming that the bus voltages have converged. (13)



OR

12.b The following is the system data for a load flow solution: (13)

Institution Portal for Online performance monitoring of students

1. **Sample Page 1 (Faculty Access page)**

2. **Sample Page 2 (Access to the courses handled in the current semester)**

3. Sample Page 3 (Marks of students and analysis)

Academic Schedule for 2018 -19 (ODD Semester) for II ,III & IV Year

Month	Working Days	Holidays	Curricular and co-curricular activities	Events & Functions	Exams
JUNE	18,19,20,21,22,23 Mon TT 25,26,27,28,29	24 30	VAC / Placement Training/ BEC : Department Orientation: In plant training /Internship Report submission	Ramzan Ifdhar Celebration 27th May Industrial Visits – IV year – 25th to 30th National Ball Badminton Tournament - 3rd week	
JULY	2,3,4,5,6,7 Tue TT 9,10,11,12,13 16,17,18,19,20,21 Thu TT 23,24,25,26,27,28 Fri TT 30,31	1 8 14,15 22 29	IV yr –Project Phase I: Report Submission & VIVA Intra Department Symposium : 28th Intramural Sports II & III year: 25 & 26	Industrial Visits &Guest Lecture III year – 2nd – 7th II Year – 9 th – 14th NPTEL video display National Chess Tournament -2nd week	Internal Assessment Exam I-Unit - I : 16 - 21 A U Entry _____
AUGUST	1,2,3 6,7,8,9,10,11 Wed TT 13,14,16,17,18 Wed TT 20,21,23,24 27,28,29,30,31	4,5 12 15,19 22,25, 26	BEC EXAM -10 & 11 Staff workshop Students Chapter activities	School State Sports meet – 4 & 5 Onam Celebration – 18th Technology 7th Anniversary – 22nd Teachers Day Celebration – Aug 27th to Sep 3rd Bakrid -22nd	Internal Assessment Exam II Unit - II 6 – 11 (for II Yr – 6-9 / 13 & 14) A U Entry _____ Internal Assessment Exam – III -Unit -III & No Due Forms issue: 27 to 31& Sep 3
SEPTEMBER	1 3,4,5,6,7,8 Fri TT 10,11,12,14,15 17,18,19,20,21,22 Thu TT 24,25,26,27,28,29 Mon TT	2 9 13,16 23	National Symposium - 1st & 15th Intramural Sports I year - 1st week	Krishna Jayanthi – 2nd Muharam – 21st Vinayaga Sathurthi Celebration -13th	Internal Assessment Exam - IV-Unit – IV No Due Form Sign : 17 to 22 A U Entry_____

Model Theory - Oct 1,3,5,8,10,12
Model Practicals - Oct 2,4,6,9,11,13

AU –Entry _____

Working Saturdays

II & III Year - June 23 /July 7,21 /Aug 11,18 / Sep 8,15(for 15 % NGO activities in any one Saturday)
IV year : All Saturdays are working Saturday for the placement eligible Final Year students and 1 day NGO

all 160618

University Practical examinations :

University Theory :

Academic Schedule for 2017 -18 (EVEN Semester) for II & III Years

Month	Working Days	Holidays	Curricular activities	Events & Functions	Exams
Dec	11,12,13,14,15,**16** Mon TT 18,19,20,21,22 26,27,28,29,**30** Tue TT	17 23,24,25 31	**Department Orientation : 11,12**	Christmas Celebration **20th**	
Jan	2,3,4,5,**6** Wed TT 8,9,10,11,12 17,18,19,**20** Thu TT 22,23,24,25 29,30,31	1 7 13,14,15,16 Pongal Holidays 21 26,27,28		Pongal Celebration -**12th** Dr. MGR's 101st Birthday	**Unit Test I – 6 – 12** **Cycle Test I – 17 – 22** **Model I - 29 to Feb 3**
Feb	1,2,**3** 5,6,7,8,9 12,13,14,15,16,**17** Fri TT 19,20,21,22,23 26,27,28	4 10,11 18 24,25	**Review I** for III year -Project Title submission and Partner registration- **28 th** **Mock Interview** for II year - - **28 th**	Intra Moral Sports II Yr -**7** Intra Moral Sports III Yr – **14** **Industrial Visits & Guest Lectures** - III Year – **5- 9** - II Year- **12-16** **Ash Wednesday – 14th**	**Unit Test II &** **No due form issue** } **19–26**
Mar	1,2,**3** Tue TT 5,6,7,8,9 12,13,14,15,16,**17** 19,20,21,22,23,**24** Wed TT	4 10,11 18 25		**Ugadi dinner -17 th Sat** **Palm Sunday – 25 th** **Holy Friday – 30 th**	**Cycle Test II and** **No due form sign** } **3 – 9** **Model Theory II – 12 -17** **Cycle Test III,** **Model II Repeat** } **19 – 24** **Model Practicals – 26-31**

Working Saturdays

II & III Year - Dec 16, 30 / Jan 6 , 20 / Feb 17 / Mar 3 , 24 (for 15 % NGO activities in any one Saturday)
Feb 3 Sat and Mar 17 Sat – working days - for conducting Model Theory I & II

Staff : 100% on all working Saturdays ;
50% on 10 th & 17 th March

TO all Stadt
and
II & III yrs

Academic schedule for 2017-18 (odd semester)

Month	Working days	Holidays	Curricular activities	Events & Functions	Exams
June	7,8,9 12,13,14,15,16,17 **Mon TT** 19,20,21,22,23,24 **Tues TT** 27,28,29,30	10,11 18 25,26	**Department Orientation** : II year – 8th – Eng., 9th Tech. :III year – 15th : IV year - __ **BEC training for II year &** **Value added courses for III year** : Slot – I – 12 to 17th **(6 Days)** : Slot – II – 19 to24th : Slot – II – 27 to 3rd **Aptitude crash course for II year: 12th to 3rd July** **(3 Days)**	**Ifhar 18th (Sunday)** **Ramzan- 26th (Monday)**	
July	1 **Wed TT** 3,4,5,6,7,8 **Thurs TT** 10,11,12,13,14,15 **Fri TT** 17,18,19,20,21,22 **Mon TT** 24,25,26,27,28,29 31	2 9 16 23 30	**Industrial visits III year:** 3 to 8th **Industrial visits II year :** 10 to 15th **Intra Dept. Symposium** 22nd	**I year Orientation:** **15th ,17th &18th** **Avani Avittam – 28th**	**Unit test I :** 3rd to 10th **Cycle test I:** 15th to 22nd **Model – I** : 24th - 29th
Aug	1,2,3,4,**5 Tues TT** 7,8,9,10,11, **12 Wed TT** 16,17,18,**19 Thur TT** 21,22,23,24 28,29,30,31	6 13,14,15 20 25,26,27	**Cultural Competition : 11th** **College day: 12th** **BEC Exam II UG & PG** : 18th ,19th **NPTL Display & Guest Lectures** : 1st to 15th **Staff Workshop** **Student Chapter Activities**	**6th Anniversary of St. Joseph's Institute of Technology** -22nd **Vinayaga Pooja** -25th **Teacher's day Celebration:** Aug 28 – Sep 5th	**Model – I repeat:** **1st to 7th** **Unit test II** : 17th - 24th
Sep	1 4,5,6,7,8,9 **Fri TT** 11,12,13,14,15,16 18,19,20,21,22,**23 Mon TT** 25,26,27,28	2,3 10 17 24 29,30	**National level Symposium** 9th **National level Symposium** 23rd **Final year Photo Session** ____	**Onam Celebration - 1st** **Bakrid** -2nd **Onam & Teacher's day : 5th** **Kolu display: 20th** **Pooja in Institutions: 28th**	**Issue of No due forms & Cycle test II : 4th - 9th** **Model II: 11th - 16th** **No dues sign ,** **Cycle test III** **& Repeat Mod.II** } **18th - 23rd** **Lab Model 25th - 28th**

Working Saturdays

TO all staff 03/06/17

***IV Year** – June 17th / July 1st ,15th / September 9th , 23rd (20% NGO activities **in any one Saturday**)

II & III year - June 24th / July 8th , 22nd / August 5th , 19th (20% NGO activities **in any one Saturday**; no NGO activity for II year on August 19th)

* all Saturdays are working days for the placement eligible final Year students 5th June in drawn to principals - if any correction

EVEN SEMESTER SCHEDULE – 2016 -17
I YEAR

Month	Working Days	Holidays	EVENTS & Functions
JAN	4,5,6,7 **Wed TT** 9,10,11,12 16,17,18,19,20,**21 Thu TT** 23,24,25,27,**28 Fri TT** 30,31	1 – 3 8 13,14,15 22,26,29	**12** - Pongal Celebration Dr. MGR's Birthday Tamil PattiMandram___
FEB	1,2,3, 6,7,8,9,10,**11 Mon TT** 13,14,15,16,17,18 20,21,22,23,24,25 **Tue TT** 27,28	4,5 12 19 26	**6 – 11** Cycle Test I **13 – 18** Model Theory I **20 -25 – Communication Enhancement Program I** **27 – Mar 4 – Communication Enhancement Program II**
MAR	1,2,3 6,7,8,9,10,**11 Wed TT** 13,14,15,16,17 20,21,22,23,24,**25 Thu TT** 27,28,29,30,31	4,5 12 18,19 26	6 – 11 – **Communication Enhancement Program III** Ash Wednesday **29** Ugathi Dinner
APR	**1 Fri TT** 3,4,5,6,7,**8 Mon TT** 10,11,12,13	2 9 14,15,16	**Mar 27 – Apr 1** Cycle Test II **3 – 8** Model Theory II } **– Tentative** **10- 13** Cycle Test III **13** – Tamil New year Lunch

Dates for

1. **Illumination of Karthigai Deepam – 12th Dec**
2. **Ayyapa padi Pooja – 17th Dec**
3. **Christmas Celebration in Hostel – 18th Dec**
4. **Christmas Celebration – 19th Dec (2.00 to 4.00)**
5. **All I Year – College culturals - 2 days**
6. **College Day ___**
7. **Hostel Day ___**
8. **JETS 2017 _____**
9. **Conquista 2017 ____**
10. **Achievers Day ____**
11. **Graduation Day ____**
12. **NGO Visit – 20 % Classes in any one Working Saturday**

for all Staff (1)
10/2/16.
for approval

Academic Schedule for 2018-19 (Odd Semester) for II MBA

Month	Working Days	Holidays	Curricular activities	Events	Exams
JUNE	25,26,27,28,29	30	BEC Training for II year : 25th to 29th (5 Days)	National Ball Badminton Tournament - 3rd Week	
JULY	2,3,4,5,6,7 Tue TT 9,10,11,12,13 16,17,18,19,20,21 Thu TT 23,24,25,26,27,28 Fri TT 30,31	1 8 14,15 22 29	Department Orientation : II year 2nd Summer Internship Review II - 2nd Intermural Sports – 25th	Industrial Visits & Guest Lecture II Year - 9th - 14th National Chess Tournament - 2nd Week	Internal Assessment Exam I Unit -I : 23 – Aug 1 [AU Entry]
AUGUST	1,2,3 6,7,8,9,10,11 Wed TT 13,14,16,17,18 Wed TT 20,21,23,24 27,28,29,30,31	4,5 12 15,19 22,25,26	Summer Project Rough Draft Submission - 9th Summer Project Report Submission & Viva - 24th POP - 27th to 30th BEC Exam 10,11	School State Sports meet - 3&4 Independence Day - 15th Onam Celebration - 18th 7th Anniversary of Technology , Bakrid - 22nd Teacher's Day Celebration Aug 27th to Sep 3rd	Internal Assessment Exam II Unit -II : 13 -23 [AU Entry]
SEPTEMBER	1 3,4,5,6,7,8 Fri TT 10,11,12,14,15 17,18,19,20,21,22 Thu TT 24,25,26,27,28,29 Mon TT	2 9 13,16 23 30	Intra Department Symposium - 1st National Symposium - 15th	Krishna Jayanthi - 3rd Vinayaga Sathurthi Celebration - 13th Muharam - 20th	Internal Assessment Exam - III } 10 to Unit - III & No Due Form Issue : } 19 [AU Entry]
OCTOBER	1 3,4,5,6 8,9,10,11,12,13 Tue TT 15,16,17	2 7		Gandhi Jayanthi -2nd Pooja Holidays - 18th to 21st	Internal Assessment Exam - IV } 3 to Unit - IV& No Due Form Issue : } 11 [AU Entry]

Model Theory - Oct 22,23,24,25,26,27,29,30 [AU Entry -]

NGO - Sep 8th

Summer Internship - Jun 1 to 23

all I MBA
16/04/18

EVEN SEMESTER SCHEDULE – 2016 -17

II & III YEAR

Month	Working Days	Holidays	EVENTS & Functions
DEC	26,27,28,29,30,**31 Mon TT**		**12** – Illumination of Karthigai Deepam **17** – Ayyapa padi Pooja **18** – Christmas Celebration in Hostel **19** – Christmas Celebration in College
JAN	2,3,4,5,6,**7 Wed TT** 9,10,11,12 16,17,18,19,20,**21 Thu TT** 23,24,25,27,**28 Fri TT** 30,31	8 13,14,15 22 26,29	**12** - Pongal Celebration Dr. MGR's Birthday Tamil PattiMandram___
FEB	1,2,3,**4 Mon TT** 6,7,8,9,10 13,14,15,16,17,**18 Tue TT** 20,21,22,23,24 27,28	5 11,12 19 25,26	III Year VAC **Tech** –Jan 31 – 6 III Year VAC **Engg** - 7 – 14 II Year VAC **Tech** –15- 21 II Year VAC **Engg** - 22 -28 II Year Industrial Visit - **6 - 10** III Year Industrial Visit - **20 - 24**
MAR	1,2,3,**4 Wed TT** 6,7,8,9,10 13,14,15,16,17,**18 Thu TT** 20,21,22,23,24,25 27,28,29,30,31	5 11,12 19 26	March Ash Wednesday **29** Ugathi Dinner

Dates for

1. IV , III & II Year – College culturals - 2 days
2. College Day ___
3. Conquista 2017 ____
4. Pre Final Year Project Review – ____
5. II Year Dept Mock Interview ____
6. Hostel Day ___
7. JETS 2017 _____
8. Achievers Day ____
9. Graduation Day ____
10. NGO Visit - **20 %** Classes in any one working Saturday

EVEN SEMESTER SCHEDULE – 2016 -17

IV YEAR

Month	Working Days	Dept.	Re-opening	Project
NOV	30	BT	-	30th NOV – 28th FEB
DEC	1,2,3 5,6,7,8,9,**10 Mon TT** 12,13,14,15,16,**17 Tue TT** 19,20,21,22,23 26,27,28,29,30,**31 Mon TT**	CSE **(Engg.)**	30th NOV	**31st DEC** – 28th FEB
JAN	2,3,4,5,6,**7 Wed TT** 9,10,11,12 16,17,18,19,20,**21 Thu TT** 23,24,25,27,**28 Fri TT** 30,31	MECH ICE CHEM CSE **(Tech.)** IT EIE ECE EEE	26th DEC 26th DEC 26th DEC 26th DEC 26th DEC 26th DEC 26th DEC 26th DEC	21st JAN 21st JAN 18th JAN 21st JAN 28th JAN 21st JAN 28th JAN 21st JAN **to** 28th FEB

Dates for

3½ hr- Full Portion	Model – I Review – I	**Dates will be informed after receiving the Entry Dates from Anna University**
3½ hr- Full Portion	Model – II Review – II	
3½ hr- Full Portion	Model – III Model Viva voice-I	
	Model Viva voice-II	

EVEN SEMESTER – II &III YEARS
2013 - 14

MONTH	Working Days	Holidays	Events	
DEC **6**	16,17,18,19,20,**21**	**22 to 31** Christmas Vacation	**15th** – Christmas eve in the hostel **16th** - Ayyappa Padi Pooja **20th** – Christmas celebration – I Years only **Working Saturday for all – 21st – Tuesday Time Table**	Last date for Announcement of **Assignment I** – before **21st** **(Part A – 20 Questions & Part B – 15 Questions)**
JAN **20**	2,3,**4** 6,7,8,9,10,**11** 20,21,22,23,24,**25** 27,28,29,30,31	1,5 **12-19 (Pongal holidays)** 26	**Working Saturday for all – 4th – Monday Time Table 11th – Wednesday Time Table 25th – Thursday Time Table** **11th** – Pongal celebration **17th** – Dr. MGR'S Birthday	**DCT from 6th** **Placement Test On Mondays – from 6th** Submission of **Assignment I** and Notes Check – **25th** Last date for Announcement of **Assignment II** – before **27th** **(Part A – 30 Questions & Part B – 20 Questions)**
FEB **22**	3,4,5,6,7 10,11,12,13,14,**15** 17,18,19,20,21,**22** 24,25,26,27,28	1,2 8,9 16 23	**5th** – Ash Wednesday **Working Saturday for all – 22nd – Friday Time Table**	**Model I - 10,11,12,13,14,15** **II Year BEC Training 17 -24**
MAR **23**	3,4,5,6,7 10,11,12,13,14,**15** 17,18,19,20,21,**22** 24,25,26,27,28 31	1,2 8,9 16 23 29,30	**Working Saturday for all – 15th – Monday Time Table 22nd – Tuesday Time Table** National Symposium – **1st** Culturals and College Day - Hostel Day - Pre final year First Review - **7th** **Ugadi – 31st**	No Due, Submission of **Assignment II** and Notes Check – **22nd**

Note 1: Activity Saturdays: 7.50 to 3.00 for Placement Training / NGO Visits / Career Activities

III Year	Feb 1	Mar 1
II Year	Feb 8	Mar 8

Note 2 : Placement Tests : On all Mondays 8.30 to 10.00 a.m **–from 6th Jan**
Classes will be over at 4.20 p.m

Note 3: Department Custodian meeting on First Monday of a Month 3.00 to 4.30 - **Jan 6 / Feb 3 / Mar 3**

For Staff only

I – During Christmas Holidays 50 % Non Teaching and Teaching who join from June 2013
Working day slot - I – 23,24,26 and II – 27,28,30

II – All Teaching Staff – On Saturdays
Dec 21 / Jan 4,11,25/Feb 22/ Mar 15, 22/Apr 12 , 26

III – 50 % Teaching Staff – On Saturdays
Feb 1,8,15 / Mar 1,8,29 / Apr 5

Compulsory attendance on Dec 16,21 / Jan 2,11 and 20

13/12/13.