



TECHNO COMMERCIAL OFFER – TRAINING ON ETAP

Office of Issue: Power Projects #4/499/5 Vinoba Nagar, Velliyampalayam, Koduvai – 638660, Phone: +91 –8220426952 / 7200987393, GSTIN: 33AMLPN4684L1ZG Email: ajith@powerprojectsindia.com / bd@powerprojectsindia.com

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PP/707522012024/Rev - 0

22.01.2024

Dear Sir,

Sub: Techno-commercial offer – Training on ETAP

Thank you very much for your enquiry. We are pleased to submit our Techno-commercial offer for your kind consideration.

We hope our offer is in line with your expectations. Should you need any clarifications or information, please feel free to contact us. In case of any queries, we shall be pleased to address the same.

Thanking You

Yours Truly

For **Power Projects**

Ajithkumar G Bids & Proposal Manager



CUSTOMER : Kamaraj Engineering College

PROJECT : Training on ETAP

ENQUIRY DOC.NO. : RFQ Dt on 21.01.2024

:0

REV NO.

REVISION HISTORY

Rev. No	Date	Description	Prepared By	Reviewed By	Approved By	Remarks
0	22.01.2024	Original issue	KI	TS	AK	



CUSTOMER

: Kamaraj Engineering College

PROJECT : Training on ETAP

ENQUIRY DOC.NO. : RFQ Dt on 21.01.2024

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REV NO.

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	CUSTOMER	: Kamaraj Engineering College
POWER PROJECTS	PROJECT	: Training on ETAP
powering the future	ENQUIRY DOC.NO	D. : RFQ Dt on 21.01.2024
	REV NO.	:0

1. ABOUT US

POWER PROJECTS, established in the year of 2006. Being Quality organisation that provides quality Electrical and Consultancy services to Power Plant, Process & Manufacturing industries and Commercial Buildings. "We have strong domain knowledge to meet the customer requirements by optimizing the cost without compromising the quality". Our commitment is to exceed the expectations of our clients by providing innovative solutions, outstanding services and value addition. Our skills include every aspect of engineering, design, detail engineering and we provide continuous technical support. Technical expertise coupled with experience and team work makes POWER PROJECTS an ideal choice for your engineering needs.

2. ASSUMPTIONS & BASIS OF OFFER

We have prepared this offer based on RFQ 21.01.2024.

3. SCOPE, METHODOLOGY & TIME FRAME

3.1. SCOPE

The scope of Training includes the followings,

S. No	Training Modules	Days	Hours/day	Total Hours
1	ETAP	5	6	30

3.1.1.METHODOLOGY

GENERAL

4 Number of participants limited to 32

4. EXCLUSION

Software

	CUSTOMER	: Kamaraj Engineering College
POWER PROJECTS	PROJECT	: Training on ETAP
powering the future	ENQUIRY DOC.NC). : RFQ Dt on 21.01.2024
	REV NO.	:0

5. COMMERCIAL TERMS AND CONDITIONS

S. No	Software	Training Mode	Number of days	Total Price (INR)
1	ETAP	Offline	5	40,000 /- + GST (Forty Thousand + GST)

5.1. PAYMENT TERM

- **4** 50% Advance along with purchase order and balance 50% upon completion
- **4** Payment shall be within 28 days from date of Invoice

5.2. TAXES AND DUTIES

Price indicated is exclusive of Taxes and duties. Taxes and duties will be applicable as per norms.

5.3. VALIDITY

Our offer is valid for 30 days from the date of offer and is subject to our confirmation thereafter.

5.4. ORDER MODIFICATION

All Changes / Variations occurring in the scope of work during the execution of the project would be raised as a Change Notification (Variation Order) and the same would be billed extra.

5.5. FORCE MAJEURE

Our offer is subject to standard force majeure conditions.

COLLEGE OF ENGINEERING & TECHNOL (An Autonomous Institution - Affiliated to Anna University, Chennai) S.P.G. Chidambara Nadar - C. Nagammal Campus S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR) **APPROVAL BOOK** Date 22-01-2024 Book No. EEE SL.No. Requisition to conduct Value added course (2023-24-even on ETAP software by Power Poiojerts, chennai. This course will make the students to do consultancy / Poroject work Industries. (Accommodation and food required for in at free of cost). resource person Details: Batch strength : 32 (1 year) Duration : 5 days (12-02-2024 to 16-02-2024) course fee / student : 1250 (Proposal enclosed) Total amount in Rs.: 1250×32 = 40,000 GIST (18%) 7,200 Total amount in R. (indusive GIST) : 47,200 feef 12/01/24 PRINCIPAL Signature of Staff . JEGIAN **OFFICE USE** Value Added ann Account Head Last year Rara R. 1,250 2) Budget allotted 3) Amount committed / Spent sofar 4) Balance available Secretary Administrative Officer

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S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

08-02-2024

CIRCULAR

The Department of Electrical and Electronics Engineering of Kamaraj College of Engineering and Technology organizes 5 days Value added course for II EEE from 12-02-2024 to 16-02-2024. The detail of the course is given below.

Name of Value added course	Conducted by	Venue
ETAP software	Power Projects, Koduvai,	PSS Lab, D Block IV
	Tiruppur	floor



Copy to:

- 1. To be read in II EEE class room
- Circulated to all the EEE teaching faculty members through their email ID.
- 3. HoD / EEE
- 4. File



S.P.G.Chidambara Nadar - C.Nagammal Campus S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Date: 07.02.2024

Department of Electrical and Electronics Engineering

(Accredited by NBA, New Delhi)

Submitted to the Principal through Dean (Academic Courses)

Sub: Requesting permission to nominate the three member committee for Value added course – 2022 – 2026 Batch II year UG candidates in 2023 – 2024 EVEN Semester – Reg.

As per the current needs in industry, we need to provide the Value added course for 2022 - 2026 Batch II year UG candidates in 2023 - 2024 EVEN Semester. In connection with this clause, three members committee has been constituted to scrutinize the Value added course evaluation.

Members List

S. No.	Members	Category
1	Dr. D. Prince Winston, Head & Prof./EEE	Head of the Department
2	Dr.B.Gurukarthik babu, AP / EEE	PG chairperson
3	Mr.R.Ganesan, AP / EEE	UG course coordinator

We hereby request you to provide permission to nominate the above said three members committee to review the **Value added course**.



1Ju-

Dean (Academic Courses)

Principal



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI) S.P.G.Chidambara Nadar - C.Nagammal Campus S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Department of Electrical and Electronics Engineering

(Accredited by NBA, New Delhi)

Submitted to the Principal through Dean (Academic Courses)

Sub: Requisition to recommend "ETAP software" for 2022 – 2026 Batch II year UG candidates in 2023 – 2024 EVEN semester.

As per the current needs in industry, we need to provide the Value added course for 2022 – 2026 Batch II year UG candidates in 2023 – 2024 EVEN Semester. In connection with this clause, three members committee has been constituted to scrutinize the Value added course evaluation, meeting has been convened on 08-02-2024 (01.30 PM to 02.30 PM) at PG14, Academic Block – D, EEE Department, Kamaraj College of Engineering and Technology, Virudhunagar.

Members List

S. No.	Members	Category	Signature
1	Dr. D. Prince Winston, Head & Prof./EEE	Head of the Department	An
2	Dr.B.Gurukarthik babu, AP / EEE	PG chairperson	Buy
3	Mr.R.Ganesan, AP / EEE	UG course coordinator	8. Jours

The three member committee has recommended the Value added course "ETAP software" (2023 – 2024 EVEN semester) for 2022 – 2026 Batch.

HoD/EEE

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Dean (Academic Courses)









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Value added course on ETAP software.

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Good teaching	Very good	Very good	Good	Very good	HARIKUMARAN.M	0 22uee032@kamarajeng	2/26/24 13:37:10	2/20/24 15:36:25	Te
6	Good	Good	Good	Good	JUSHUA RAU.R	o 220eeus 1@kamarajeng	1.74.51 47/07/7	Current salesta	2
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value added course is very useful for us and I learned etap software tools	VCI 7 BOOM	- cr / Bood	Version	Vervannd	MANI KANDAN K	6 22uee029@kamaraiene	2/16/24 17.44:5	2/16/24 17:44 15	37
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Useful to learn etap softtware	Very good	Very good	Good	Very good	YOGAN DHANUSH.M	9 22 ueeuz / @kamarajeng	2/20/24 13:37:4	CT. I C. CT 12 10 217	
Nothing	Very good	Very good	Satisfactory	Good	PREM.G	1 22ueeu26@kamarajeng	2/10/24 19:40:1	01:CT.ET +2/01/7	21
Need more concentration on Lab facility	Very good	Good	Good	Very good	POOJAK	1 / Incent Steward and	2/10/24 18:38:4	00.10.01 M2/01/2	24
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Incorporate more interactive elements such as case studies, group discussions, hands on exercises, and simulations to engage participants actively and facilitate better learning outcomes.	Good	Good	Good	Good	SETHUPATTI.M	1 22uee023@kamarajeng	2/26/24 13:38:01	2/26/24 13:36:41	22
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Better future this course for me	Very good	Very good	Very good	Very good	HARIRASKARAN A	22uee019@kamaraiene	2/19/24 9:30:41	2/19/24 9:28:56	18
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I need advanced value added courses	Very Bood	Very good	Very anod	Verv good	VIGNESHS	22uee016@kamarajeng	2/26/24 13:40:35	2/26/24 13:37:17	15
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super	Good	Good	Good	Good	PAUL EBINESH.G	22uee011@kamarajeng	2/19/24 9:29:47	2/19/24 9:29:31	10
Installation of software in college computer systems	Very good	Very good	Very good	Satisfactory	LAVANYA.M	22uee010@kamarajeng	2/18/24 9:23:10	2/18/24 9:22:25	9
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still more effective seriousness has to be taken and more value added course has to be conducted in the department	Very good	Very good	Satisfactory	Satisfactory	MUKILAN.M	22 uee007@kamarajeng	2/19/24 9:26:42	2/19/24 9:25:49	6
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Department of Electrical and Electronics Engineering (Accredited by NBA, New Delhi) In association with Power Projects, Koduvai, Tiruppur. Value Added Course on "ETAP software" 2023-24 EVEN Semester (February 2024) Class: II EEE (2022-2026) Batch Each question carries TWO marks

1. What standard & frequency is used in ETAP?

2. What method is used as default for performing load flow in ETAP?

3. What are the different types of power system studies will come under steady state analysis?

4. What are the standards considered for load flow analysis?

- 5. Mention the different types of buses in power system?
- 6. How to copy and paste elements in ETAP workspace?
- 7. What is system dumpster used for?
- 8. What are the different classifications of transmission lines?
- 9. Define: Ferranti effect

10. What device is used for Ferranti effect mitigation?

11. What is transformer?

12. What are the parameters to be given in transformer when modelled in ETAP?

13. Define: Deration of transformer. What are the types of deration?

14. Define: Altitude deration with formula

15. Define: Temperature deration with formula

16. How to delete unnecessary elements in ETAP?

17. Write Actual MVA formula.

18. What are the different conditions for paralleling transformer?

19. What are the different types of load available in ETAP?

20. What are the k values for ZIP loads?

21. What are the four operating modes in Generator?

22. What is Short circuit?

23. What are the different types of faults?

- 24. What are the standards for Short circuit studies?
- 25. What are the limitations of IEC 60909?

1] Consider a grid connected two bus system [no load] with sending end voltage of 132 kV, 450 km long transmission line. In transmission line: Parameter tab, Select SULPHUR as phase conductor & select 37 No.7 as Ground wire. In Configuration tab, give height as 20 m. Spacing is AB = BC = 5m & CA = 10m. The number of ground wires is 1, CG length is 5m. Now perform load flow analysis and observe the effect in transmission line.

2] Consider a grid connected two bus system [no load] with sending end voltage of 400 kV, 380 km long transmission line. In transmission line: Parameter tab, Select XENON as phase conductor & select 37 No.5 as Ground wire. In Configuration tab, give height as 20 m. Spacing is AB = BC = 5m & CA = 10m. The number of ground wires is 1, CG length is 5m. Now perform load flow analysis and observe the effect in transmission line.

3] Consider a grid connected two bus system [no load] connected by transformer: 110/33 kV, 300 MVA, set impedance and X/R as typical data with Dyn1 vector group. Assume that the transformer is placed in 1500 m altitude from mean sea level and the transformer is derated. Find the derated MVA by manual calculation and verify the same using simulation.

4] Consider a grid connected two bus system [no load] connected by transformer: 110/11 kV, 400 MVA, set impedance and X/R as typical data with Dyn0 vector group. Assume that the transformer is placed in 1800 m altitude from mean sea level and the transformer is derated. Find the derated MVA by manual calculation and verify the same using simulation.

5] Consider a grid connected two bus system [no load] connected by transformer: 110/11 kV, 500 MVA, set impedance and X/R as typical data with Dyn11 vector group. Assume that the transformer is operating in 35 deg from the normal ambient temperature and the transformer is derated. Find the derated MVA by manual calculation and verify the same using simulation.

6] Consider a grid connected two bus system [no load] connected by transformer: 110/22 kV, 600 MVA, set impedance and X/R as typical data with Dyn1 vector group. Assume that the transformer is operating in 38 deg from the normal ambient temperature and the transformer is derated. Find the derated MVA by manual calculation and verify the same using simulation.

7] Model the system given below. Check for transformer paralleling condition. If this system is not properly paralleled then do the changes for transformer paralleling.

Note:: do not alter the T6 parameters.



8] Model the system given below. Check for transformer paralleling condition. If this system is not properly paralleled then do the changes for transformer paralleling. After simulating LF without load, connect a lumped load in BUS 17 with parameters of lumped load:
15 MVA, constant power load, 85% power factor. Observe the load sharing.



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Department of Electrical and Electronics Engineering

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

S.P.G.Chidambara Nadar - C.Nagammal Campus

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

EGE OF ENGINEERING & TECHNOLOGY

(Accredited by NBA, New Delhi)

In association with Power Projects, Koduvai, Tiruppur.

Value Added Course on "ETAP software"

2023-24 EVEN Semester (February 2024)

Class: II EEE (2022-2026) Batch

 20 DOTTEEN33 HARISH KUMAR V	31 77UFF032 HARIKUMARAN M	30 22UEE031 JOSHUA RAJ R	29 22UEE030 JIM ALLEN D J	28 22UEE029 MANI KANDAN K	27 22UEE028 JOHN RAJ S	26 22UEE027 YOGAN DHANUSH M	25 22UEE026 PREM G	24 22UEE02S POOJA K	23 22UEE024 HARISH KUMAR K	22 22UEE023 SETHU PATHI M	21 22UEE022 THAMEESH AHAMED M	70 22UEE021 CHARUPRIYA G	19 22UEE020 AMUTHAN N	18 22UEE019 HARIBASKARAN A	17 22UEE018 KARUPPASAMY S	IS THEEOIT SANTHIYA J	S.No. Roll No. Name
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Staff INCHARGE

HoD / EEE



12. What are the parameters to be given in transformer when modelled in ETAP2 Ans the generator do be gene as the Value of MVA Value only low end of the Valkag and also the Impedance Val 13. Define: Deration of transformer. What are the types of deration? The types of the Doration are the Respontance Value and the Power beaton Value will be khoused and 14. Define: Altitude deration with formula He a = Relation (Bolton × Doration 1') 15. Define: Temperature deration with formula the 0,99 theyordur deration /d 16. How to delete unnecessary elements in ETAP? 2 By using the Shift+ Idate of the delete the 17. Write Actual MVA formula. Actual MVA = Rated MVA (Rated MYA X Deraten V.) 18. What are the different conditions for paralleling transformer? where can dree Flamen Valle of the at the Esqueses of t and both are Ben lice 19. What are the different types of load available in ETAP? Constant PQ, Z and the Motor loads, the highling Load there are the different chapper of local 20. What are the k values for ZIP loads? the K Value Pin on Orte is O the K value when VI's Constant is I and then the is 2 at PVI/2 is Constant 1 21. What are the four operating modes in Generator? Short, midle, made parge, And lane are be 22. What is Short circuit? What is snort circuit? St. 16 an Electricia which when unitenter path has been Creed When here thigh plan 23. What are the different types of faults? Series fault Shurt Coult 24. What are the standards for Short circuit studies? TEC 60400-206 ZEE300.2-2018 25. What are the limitations of IEC 60909?

F. Abdul Rahman taijan 220 EE002-POWER PROJECTS powering the future An Autonomous Institution - AFFICIATED TO ANI Department of Electrical and Electronics Engineering (Accredited by NBA, New Delhi) In association with Power Projects, Koduvai, Tiruppur. Value Added Course on "ETAP software" 2023-24 EVEN Semester (February 2024) Class: II EEE (2022-2026) Batch Each question carries TWO marks TOTAL: 50 marks + V-lom 1. What standard & frequency is used in ETAP? alculaters and plate the magnitudes & phase angles I buy driving point Impedance over a frequercy range specified 2. What method is used as default for performing load flow in ETAP? In method is used as defailt for performing hoad flow in Erap is bus Voltage, brouch power factors words, systen Loss 3. What are the different types of power system studies will come under steady state analysis? Short circuit study, Harmonic analysis, Arc flash analysis coordination study 4. What are the standards considered for load flow analysis? Newton rephran method is widly used method for Load flow analysis becauses 56 its good convergence, Campery to Sther, method 5. Mention the different types of buses in power system? Based on these variables : Slack, generalish, head buses 6. How to copy and paste elements in ETAP workspace? Ctrl + Shift + V What is system dumpster used for? The main purpose of dumption is to stoke gentbage within it is expliced by a garbage truck for aly posed & 7. What is system dumpster used for? 8. What are the different classifications of transmission lines? What are the différent classifications of times Subtanniss ion lines. Indergrand Transmission lines of ^{9. Define:} Ferranti effect Define: Ferranti effect Uslage increase in the netwing and to an electrical frommission line When it is operated in a nor head or how - loved, concliption ¹⁰. What device is used for Ferranti effect mitigation? Repristor Controlled Reactor (TCR) & fixed Inductor to roduce My a planice that transfors electric oranges from one alternating circuit to one or more other givenids, elther increasing or reducing the visitage ¹¹. What is transformer?

What are the parameters to be given in transition of Socian aday KUI Primary U. Jacker & the primary KU, Socian aday KUI Primary U. Jacker & max from former u. Jacker & max from former u. 12. What are the parameters to be given in transformer when modelled in ETAP? Define: Deration of transformer. What are the types on deration: (IFEE (\$7.110) providy types are ? Power through the former of the transformere, RF throughound former 13. Define: Deration of transformer. What are the types of deration? Rube trasfarmer, IF trasformer, RF draufound 14. Define: Altitude deration with formula Alitude devetion : 0.98° a: controlation : comila actidude)/100 C 15. Define: Temperature deration with formula C Temperature denation = 0,996 b: (altered T- ambient) 16. How to delete unnecessary elements in ETAP? Shift + delate 17. Write Actual MVA formula. MVA = V-R 18. What are the different conditions for paralleling transformer? 1. Impedance should be some . Ratios of (x/e) be some 19. What are the different types of load available in ETAP? Enduction motor, Langed Load, Stadic Load, What are the k values for ZIP loads? Constant Impredance, constant - current & constant part 20. What are the k values for ZIP loads? 21. What are the four operating modes in Generator? Stand - alone, island & potallal with the with 22. What is Short circuit? occurs when the avoient finds to may to Bypon appliance on a prath has Little or no resistorie 23. What are the different types of faults? normal, roverse, Strike-Slip & Oblight the may Interned The max Interned The max Instantineary Value & the Short - civicalt covorant



Consider a grid Connected two bus System (no load) With Sending and Voltage of 400 kv. 380 km long Transmission line: parameters tab, Select XENON phase Conductor & Solect 37 No: 5 as Grand wire. in Configuration Tab. given light as 20 m Spacing is AB = BC = 5 m & CA : 10 m. The number of ground hes is 1. CG length is Fro Now parform lood flow Analysis & observe the effect Transmission line.

Ferrorf ertert is a theraneous that describes the Breakmen & Konnege that happens of the reaching and of a line recondencer this compared all the ward

Ferronti Effect:

Equipments :power grid Bus Transmission line



It can be reduced by placing shunt reactor To teduce . at the succetving and of sine

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JoB Opportunily - Electrical Design Engineer * Power System Engineer * ETAP Trainer

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etap Software

Ferranti effect:

Consider a grid Connected two bus system [no toad] with sending end vollage of 132 k norm long transmission time. In transmission time: Jouranders tab. Select SULPHUR as phanuder & Select 37 NO.7 as ground ruive. In configuration tab. given height as zom. nong is AB: BC: Em & CA. 10m. The number of ground ruives is 1. CG tanget is 5m. New perform and flaw analysis and observe the effect in transmission line.

sectine Diagram - OLV1 (Load Flow Analysis)



Features of ETAP

- · Load flaw tralysis
- · Harmonic Aralysis
- Natar ruleration studies
- valtage stability provides
- · Switching Transient
- · Graphical reser Indusface (GUI)
- Japarting and Documentation
- · Shart arcuit Maiyers

JOB OPPORTUNITIES

- · power System Engineer
- · Consulting Engineer
- · Rerewable Energy Analyst
- · Electrical Design Engineer
- Transmission and Distribution
- Research and Development

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Department of Electrical and Electronics Engineering (Accredited by NBA, New Delhi) In association with Power Projects, Koduvai, Tiruppur. Value Added Course on "ETAP software" 2023-24 EVEN Semester (February 2024) Class: II EEE (2022-2026) Batch Program summary

<u>Day 1</u>

ETAP- Electrical Transient and Analysis Program

It is the most comprehensive analysis platform for the design, simulation, operation, and automation of generation, distribution, and industrial power systems. It is developed under an established quality assurance program and is used worldwide as a high impact software.

Power System Analysis:

- Steady State Analysis
- Transient State Analysis

Steady State Analysis:

- 1. LFA(Load Flow Analysis)
- 2. SCA(Short Circuit Analysis)
- 3. MA(Motor Acceleration)
- 4. RC(Relay Coordination/Protection Coordination)
- 5. TA(Transient Analysis)
- 6. HA(Harmonic Analysis)
- 7. AF(Arc Flash)

Equipment of sub-station are wave trap, lightning arrestor, CVT, CT&PT, Circuit breaker, transformer.

Classification of transmission line

- 1. Based on distance:
 - Short transmission line
 - Medium transmission line
 - Long transmission line
- 2. Based on voltage:

- Extra super voltage cables (Beyond 132 kV)
- Extra high-tension (E.H.T.) cables (From 33 kV to 66 kV)
- Super-tension (S.T.) cables (From 22 kV to 33 kV)
- High-tension (H.T.) cables (From 1kV to 11kV)
- Low-tension (L.T.) cables (Up to 1kV)

Some examples of the uses of load flow studies are to determine the following:

- Component or circuit loadings
- Steady-state bus voltages
- Reactive power flows
- Transformer tap settings
- System losses
- Generator exciter/regulator voltage set points
- Performance under emergency conditions

The bus data describes each bus and the load and shunts connected to that bus. The data includes the following:

- Bus number
- Bus name
- Bus type
- Load
- Shunt
- Per unit voltage and angle
- Bus base kV

<u>Day 2</u>

Ferranti Effect:

The effect in which the voltage at the receiving end of the transmission line is more than the sending voltage is known as the Ferranti effect. Such type of effect mainly occurs because of light load or open circuit at the receiving end.

In ETAP we use a static load and change the values of MVA,Mvar from loading bar to overcome Ferranti effect,

Standards for Load Flow Analysis:

1.IEEE 399-1997 – IEEE Recommended Practice for Industrial and Commercial Power Systems Analysis

2.IEEE 3002.2-2018 – IEEE Recommended Practice for Conducting Load-Flow Studies and Analysis of Industrial and Commercial Power Systems

Transformer:

It is an electrostatic and constant power device that transfer electrical energy from one circuit to another circuit with constant frequency it works on principle of Faraday's law of electromagnetic induction and mutual induction. Additional data is required for transformers. This can either be entered as part of the branch data or as a separate data category depending on the particular load flow program being used.

This additional data usually includes the following:

- Tap setting in per unit
- Tap angle in degrees
- Maximum tap position
- $\circ \quad \text{Minimum tap position} \quad$
- Scheduled voltage range with tap step size or a fixed scheduled voltage using a continuous tap approximation

Generator data:

Generator data is entered for each generator in the system including the system swing generator. The data defines the generator power output and how voltage is controlled by the generator. The data items normally entered are as follows:

- Real power output in MW
- Maximum reactive power output in Mvar (i.e., machine maximum reactive limit)
- Minimum reactive power output in Mvar (i.e., machine minimum reactive limit)
- Scheduled voltage in per unit
- Generator in-service/out-of-service code

STANDARDS :

- IEC 60076-16:2018(E), IEC/IEEE International Standard Power transformers Part 16: Transformers for wind turbine applications
- IEC 60076-57-1202:2016(E), IEC/IEEE International Standard Power transformers -Part 57-1202: Liquid immersed phase-shifting transformers
- IEC 60076-57-129:2017(E), IEC/IEEE International Standard Power transformers--Part 57-129: Transformers for HVDC applications

Derating Factor:

The equipment is rated for some specific due to environment condition the rated value will decrease or degraded to the value less than the rated value.

Uprating Factor:

The equipment is rated for some specific for environmental conditions the rated value uprated to the value higher than the rated value.

<u>Day 3</u>

Lumped load: It has both the parameter of static and rotating load.

Static Load: It is a non rotating load.

Transformer Paralleling: It refers to the connection of multiple Transformer in a parallel configuration to supply a common load this type of correction is used when the load demand exceeds the capacity of a single transformer.

Need For Paralleling Transformer:

When a transformer is designed to supply few loads after few years if the new load exceeds the Transformer rating than parallel of transformer is done to meet the new load.

Condition for Paralleling Transformer are:

- Vector Group Analysis
- Transformer Impedance Analysis
- Voltage Rating
- Tap Ratio
- X/R Ratio
- MVA Rating

 $(S/Si) = (V/Vi)^k$

Where,

- S-Power at voltage V
- Si- Initial power at voltage Vi
- k=0 for constant power load
- k=1 for constant current load
- k=2 for constant impedance load

Real Power:

$P = Pi[C(V/Vi)^2 + B(V/Vi) + A]$

Reactive Power:

$Q = Qi[F(V/Vi)^2 + E(V/Vi) + D]$

Day 4

What is short circuit?

Accidental or intentional conductive path between two or more conductive parts forcing the electric potential difference between these conducting parts to be equal or close to zero.

Why short circuit?

- It is not a commercial viable to construct a power system which is 100% free from faults.
- Short circuit occur even in a well design power system cause large decaying transient current generally much above load current result electro dynamic and thermal stress.

What are the causes of faults:

- Overhead Lines
 - Ageing
 - Over loading
 - Poor maintenance
 - Bird sitting on live conductor
 - Tree branches falls on live conductor
 - Fire and lighting surge
- <u>Rotating Machines</u>
 - Over speed
 - Moisture
 - Bearing Failure
 - Deterioration of insulation
- <u>Transformers</u>
 - Moisture
 - Deterioration of insulation
 - Lightning surges
 - Switching surges
 - Ageing

- 2. IEEE 3002.2-2018 IEEE Recommended Practice for Conducting Load-Flow
- Studies and Analysis of Industrial and Commercial Power Systems 3. IEC 60076-16:2018(E), IEC/IEEE International Standard - Power transformers -
- Part 16: Transformers for wind turbine applications 4 IEC 60076-57-1202:2016(E), IEC/IEEE International Standard - Power
- transformers Part 57-1202: Liquid immersed phase-shifting transformers 5. IEC 60076-57-129:2017(E), IEC/IEEE International Standard - Power transformers--Part 57-129: Transformers for HVDC applications

Limitation of IEEE 60909:

- Not applicable for short circuit testing starters (deliberately created short circuits).
- Not applicable for ships and aero plane. .
- Applicable up to 550 KV. ٠
- Applicable for 50 Hz or 60 hertz system. ٠
- Applicable for low voltage and high voltage 3 phase AC system. .

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Value Added Course on "ETAP software"

2023-24 EVEN Semester (February 2024)

Class: II EEE (2022-2026) Batch

- Kegulation: K2021	Reg	ulatio	n: R	2021
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S.No.	Register Number	Roll Number	Name of the student	Assessment (60)
1	920422105005	22UEE001	HARI KUMARAN S	40
2	920422105001	22UEE002	ABDUL RAHMAN FAISAL F	46
3	920422105025	22UEE003	VISHAAL S	41
4	920422105013	22UEE004	MANJULADEVI P	45
5	920422105008	22UEE005	KANKESHRAJ A	55
6	920422105014	22UEE007	MUKILAN M	55
7	920422105004	22UEE008	DEEPAVISHALI S	47
8	920422105012	22UEE009	MADHUMITHA M	52
9	920422105011	22UEE010	M LAVANYA	47
10	920422105016	22UEE011	PAUL EBINESH G	47
11	920422105022	22UEE012	V K SUDHARSAN	54
12	920422105010	22UEE013	KESAVAN M	49
13	920422105015	22UEE014	S PARTHA SARATHY	53
14	920422105019	22UEE015	RAM V	41
15	920422105024	22UEE016	VIGNESH S	48
16	920422105020	22UEE017	SANTHIYA J	50

J- Avarf (b) 2/2024 Mr. R. Pradeep Power Systems Engineer Power Projects, Twingpur

S.No.	Register Number	Roll Number	Name of the student	Assessment (60)
17	920422105009	22UEE018	KARUPPASAMY S	44
18	920422105006	22UEE019	HARIBASKARAN A	49
19	920422105002	22UEE020	AMUTHAN N	54
20	920422105003	22UEE021	CHARUPRIYA G	51
21	920422105023	22UEE022	THAMEESH AHAMED M	40
22	920422105021	22UEE023	SETHU PATHI M	43
23	920422105007	22UEE024	HARISH KUMAR K	41
24	920422105017	22UEE025	POOJA K	50
25	920422105018	22UEE026	PREM G	56
26	920422105307	22UEE027	YOGAN DHANUSH M	48
27	920422105304	22UEE028	JOHN RAJ S	43
28	920422105306	22UEE029	MANI KANDAN K	51
29	920422105303	22UEE030	JIM ALLEN D J	42
30	920422105305	22UEE031	JOSHUA RAJ R	49
31	920422105301	22UEE032	HARIKUMARAN M	42
32	920422105302	22UEE033	HARISH KUMAR V	48

2: Aval f 16/2/2024

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Value Added Course on "ETAP software"

2023-24 EVEN Semester (February 2024)

Class: II EEE (2022-2026) Batch

No.	Register Number	Roll Number	Name of the student	Problem statement and Design (10)	Implementati on (10)	Presentation (10)	Viva (10)	Total (40)
1	920422105005	22UEE001	HARI KUMARAN S	10	10	10	10	40
2	920422105001	22UEE002	ABDUL RAHMAN FAISAL F	10	10	10	10	40
3	920422105025	22UEE003	VISHAAL S	10	10	10	10	40
4	920422105013	22UEE004	MANJULADEVI P	10	10	10	10	40
5	920422105008	22UEE005	KANKESHRAJ A	10	10	10	10	40
6	920422105014	22UEE007	MUKILAN M	10,	10	10	10	40
7	920422105004	22UEE008	DEEPAVISHALI S	10	10	10	10	40
8	920422105012	22UEE009	MADHUMITHA M	10	10	10	10	40
9	920422105011	22UEE010	M LAVANYA	10	10	10	10	40
10	920422105016	22UEE011	PAUL EBINESH G	10	10	10	10	40
11	920422105022	22UEE012	V K SUDHARSAN	10	10	10	10	40
12	920422105010	22UEE013	KESAVAN M	10	10	10	10	40
13	920422105015	22UEE014	S PARTHA SARATHY	10	10	10	10	40

Regulation: R2021

D. July 16/2/2024 Mr. R. Prindeep Power Systems Engineer

Power Projects, Turuppur

s.No.	Register Number	Roll Number	Name of the student	Problem statement and Design (10)	Implementati on (10)	Presentation (10)	Viva (10)	Total (40)
14	920422105019	22UEE015	RAM V	10	10	10	10	40
15	920422105024	22UEE016	VIGNESH S	10	10	10	10	40
16	920422105020	22UEE017	SANTHIYA J	10	10	10	10	40
17	920422105009	22UEE018	KARUPPASAMY S	10	10	10	10	40
18	920422105006	22UEE019	HARIBASKARAN A	10	10	10	10	40
19	920422105002	22UEE020	AMUTHAN N	10	10	10	10	40
20	920422105003	22UEE021	CHARUPRIYA G	10	10	10	10	40
21	920422105023	22UEE022	THAMEESH AHAMED M	10	10	10	10	40
22	920422105021	22UEE023	SETHU PATHI M	10	10	10	10	40
23	920422105007	22UEE024	HARISH KUMAR K	10	10	10	10	40
24	920422105017	22UEE025	POOJA K	10	10	10	10	40
25	920422105018	22UEE026	PREM G	10	10	10	10	40
26	920422105307	22UEE027	YOGAN DHANUSH M	10	10	10	10	40
27	920422105304	22UEE028	JOHN RAJ S	10	10	10	10	40
28	920422105306	22UEE029	MANI KANDAN K	10	10	10	10	40
29	920422105303	22UEE030	JIM ALLEN D J	10	10	10	10	40
30	920422105305	22UEE031	JOSHUA RAJ R	10	10	10	10	40
31	920422105301	22UEE032	HARIKUMARAN M	10	10	10	10	40
32	920422105302	22UEE033	HARISH KUMAR V	10	10	10	10	40

P: Prote

Mr. R. Pradoep Power Systems Engineer Power Projects, Turupper



S.P.G.Chidambara Nadar - C.Nagammal Campus S.P.G.C. Nagar, K.Vellakulam ~ 625 701 (Near VIRUDHUNAGAR).

Department of Electrical and Electronics Engineering

(Accredited by NBA, New Delhi)

In association with Power Projects, Koduvai, Tiruppur.

Value Added Course on "ETAP software"

2023-24 EVEN Semester (February 2024)

Class: II EEE (2022-2026) Batch

Regulation: R2021

No.	Register Number	Roll Number	Name of the student	Assessment (60)	Internal (40)	Total (100)
1	920422105005	22UEE001	HARI KUMARAN S	40	40	80
2	920422105001	22UEE002	ABDUL RAHMAN	46	40	86
2	020422105025	221 JEE 003	VISHAAL S	41	40	81
5	920422103023	22012000	MANJULADEVI P	45	40	85
4	920422105013	22UEE004	WANKESHRAJ A	55	40	95
5	920422105008	22UEE005		55	40	95
5	920422105014	22UEE007	MUKILAN	47	40	87
7	920422105004	22UEE008	DEEPAVISHALI S	52	40	92
8	920422105012	22UEE009	MADHUMITHA M	47	40	87
-	920422105011	22UEE010	M LAVANYA	47	40	87
0	920422105016	22UEE011	PAUL EBINESH G	47	10	94
1	920422105022	22UEE012	V K SUDHARSAN	54	40	

.No.	Register Number	Roll Number	Name of the student	Assessment (60)	Internal (40)	Total (100)
12	920422105010	22UEE013	KESAVAN M	49	40	89
13	920422105015	22UEE014	S PARTHA SARATHY	53	40	93
14	920422105019	22UEE015	RAM V	41	40	81
15	920422105024	22UEE016	VIGNESH S	48	40	88
6	920422105020	22UEE017	SANTHIYA J	50	40	90
7	920422105009	22UEE018	KARUPPASAMY S	44	40	84
8	920422105006	22UEE019	HARIBASKARAN A	49	40	89
9	920422105002	22UEE020	AMUTHAN N	54	40	94
0	920422105003	22UEE021	CHARUPRIYA G	51	40	91
1	920422105023	22UEE022	THAMEESH AHAMED M	40	40	80
2	920422105021	22UEE023	SETHU PATHI M	43	40	83
3	920422105007	22UEE024	HARISH KUMAR K	41	40	81
4	920422105017	22UEE025	POOJA K	50	40	90
5	920422105018	22UEE026	PREM G	56	40	96
6	920422105307	22UEE027	YOGAN DHANUSH M	48	40	88
7	920422105304	22UEE028	JOHN RAJ S	43	40	83
8	920422105306	22UEE029	MANI KANDAN K	51	40	91
9	920422105303	22UEE030	JIM ALLEN D J	42	40	82
<u> </u>						

Register Number	Roll Number	Name of the student	Assessment (60)	Internal (40)	Total (100)
920422105305	22UEE031	JOSHUA RAJ R	49	40	89
920422105301	22UEE032	HARIKUMARAN M	42	40	82
920422105302	22UEE033	HARISH KUMAR V	48	40	88

Staff In-charge S. Jegan J

HoD / EEE

RJ-Sur m/nm

Dean (Academic Courses)