Academic Calendar for ODD Semester of UG programmes for year 2021-22

	V semester B.E./B.Tech.	V semester B.Arch./ B.Plan.	VII semester B.E./B.Tech.	VII semester B.Plan./B.Arch	IX semester B.Arch	III semester B.E./ B.Tech.	III Semester B.Arch.	III semester B. Plan	I semester B.E./B.Tech.	I semester B.Arch/B.Plan
Commencement of ODD Semester	01.10.2021	01.10.2021	01.10.2021	01.10.2021	01.10.2021	18.10.2021	18.10.2021	18.10.2021	Will be announced later	
Last Working day of ODD Semester	31.01.2022	31.01.2022	31.01.2022	31.01.2022	31.01.2022	19.02.2022	19.02.2022	19.02.2022		
Practical Examination	01.02.2022 To 10.02.2022	01.02.2022 To 10.02.2022	01.02.2022 To 10.02.2022	01.02.2022 To 10.02.2022	---	21.02.2022 To 04.03.2022	21.02.2022 To 04.03.2022	21.02.2022 To 04.03.2022		
Theory Examinations	11.02.2022 To 25.03.2022	11.02.2022 To 25.03.2022	11.02.2022 To 25.03.2022	11.02.2022 To 25.03.2022	---	07.03.2022 To 25.03.2022	07.03.2022 To 25.03.2022	07.03.2022 To 25.03.2022		
Internship	---	---	---	---	---	---	---	---		
Internship Viva Voce/ Project viva	---	---	---	---	---	---	---	---		
Summer Project / Professional training / Organization Study	---	---	---	---	---	---	---	---		
Submission of the report to University	---	---	---	---	---	---	---	---		
Commencement of EVEN Semester	04.04.2022	04.04.2022	04.04.2022	04.04.2022`	07.02.2022	11.04.2022	11.04.2022	11.04.2022		

Please Note:

- The academic sessions for ODD semesters should commence from the **dates mentioned** above.
- The Institute needs to function for **six days** a week with additional hours **(Saturday is a full working day).** #if required the college can plan to have extra classes even on Sundays also.
- Faculty should conduction additional tutorial classes ONLINE to solve the doubts of the students.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges.** In case if any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The offline classes may be conducted either by **staggering** the timings in 02 sessions in a day with 50% capacity for each session or full day session with 50% capacity on alternative days, following all SOPs.
- The college has to conduct offline classes to cover **80%** of the syllabus of the courses; however, **20%** of the syllabus can be covered in virtual (Online) mode. **Attendance** of the students' for offline and online classes is mandatory and record should be maintained and submitted to university whenever informed.
- Students joining to VII semester B.E./B.Tech., should complete the **Internship** before the commencement of the classes.

REGISTRAR

CHILDREN'S EDUCATION SOCIETY (REGD.)
Administrative Office:
1st Phase JP Nagar, Bengaluru – 560 078
✆: 080-3041 0501 – 502 Fax: 080-2654 8652

THE OXFORD COLLEGE OF ENGINEERING

(Recognized by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi & Approved by A.I.C.T.E. New Delhi, Accredited by NAAC & NBA New Delhi and Recognized by UGC under section 2(f))
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✆: 080-[illegible]/502/504/714, Fax: 080 – 25720551/ 30194539 E-mail: [illegible] Web: [illegible]

Estd: 1974

TENTATIVE CALENDAR OF EVENTS FOR ODD SEMESTER 2021-22

(FOR V & VII BE)

Week No.	Month	Day						No. of working days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT	-	-	-	-	08 (FWD)	09	02	8th - First Working Day
2	OCT	11	12	13	14 (H)	15 (H)	16 (H)	03	14th - Mahanavami /Ayudha Pooja 15th - Vijayadashami
3	OCT	18	19	20 (H)	21	22	23	05	20th - Maharshi Valmiki Jayanthi
4	OCT	25	26	27	28	29	30 (H)	05	
5	NOV	01 (H)	02	03 (H)	04	05 (H)	06	03	1st - Kannada Rajyotsava 3rd - Naraka Chaturdashi 5th - Balipadyami / Deepavali
6	NOV	08	09	10	11	12	13 (H)	05	
7	NOV	15	16	17 IIA	18 IIA	19 IIA	20	06	IIA - First IA
8	NOV	22 (H)	23	24	25	26	27 (H)	04	22nd - Kanakadasa Jayanthi
9	NOV/ DEC	29	30	01	02	03	04	06	
10	DEC	06	07	08	09	10	11 (H)	05	
11	DEC	13	14	15	16	17	18	06	
12	DEC	20 21A	21 21A	22 21A	23	24	25 (H)	05	21A - Second IA 25th - Christmas
13	DEC/JAN	27	28	29	30	31	01	06	
14	JAN 2022	03	04	05	06	07	08 (H)	05	
15	JAN 2022	10	11	12	13	14 (H)	15	04	14th - Makara Sankranti
16	JAN 2022	17 31A	18 31A	19 31A	20	21	22 (H)	05	31A - Third IA
17	JAN 2022	24	25	26 (H)	27	28	29	05	26th - Republic Day
18	JAN 2022	31 (LWD)	-	-	-	-	-	01	31st - Last Working Day
VTU Practicals Exams Commencement		01-02-2022 to 10-02-2022							
VTU Theory Exams Commencement		11-02-2022 to 25-03-2022							

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Bengaluru-560 068

College Calendar
2018-19 - 2021-22

CHILDREN'S EDUCATION SOCIETY (REGD.)
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CALENDAR OF EVENTS FOR ODD SEMESTER 2021-22

(FOR III BE)

Week No	Month	Day						No. of working days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	OCT	18 (FWD)	19	20 (H)	21	22	23	05	18th - First Working Day 20th - Maharshi Valmiki Jayanthi
2	OCT	25	26	27	28	29	30 (H)	06	
3	NOV	01 (H)	02	03 (H)	04	05 (H)	06	03	1st - Kannada Rajyotsava 3rd - Naraka Chaturdashi 5th - Balipadyami / Deepavali
4	NOV	08	09	10	11	12	13 (H)	05	
5	NOV	15	16	17	18	19	20	06	
6	NOV	22 (H)	23	24 1IA	25 1IA	26 1IA	27 (H)	04	22nd - Kanakadasa Jayanthi 1IA - First IA
7	NOV/ DEC	29	30	01	02	03	04	06	
8	DEC	06	07	08	09	10	11 (H)	05	
9	DEC	13	14	15	16	17	18	06	
10	DEC	20	21	22	23	24	25 (H)	05	25th - Christmas
11	DEC/JAN	27 2IA	28 2IA	29 2IA	30	31	01	06	2IA - Second IA
12	JAN 2022	03	04	05	06	07	08 (H)	05	
13	JAN 2022	10	11	12	13	14 (H)	15	05	14th - Makara Sankranti
14	JAN 2022	17	18	19	20	21	22 (H)	05	
15	JAN 2022	24	25	26 (H)	27	28	29	05	26th - Republic Day
16	JAN 2022	31	01	02 3IA	03 3IA	04 3IA	05 (H)	05	3IA - Third IA
17	FEB 2022	07	08	09	10	11	12	06	
18	FEB 2022	14	15	16	17	18	19 (LWD) (H)	05	19th - Last working Day
VTU Practicals Exams		21-02-2022 TO 04-03-2022							
VTU Theory Exams Commencement		07-03-2022 TO 25-03-2022							

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Visvesvaraya Technological University

(State University Government of Karnataka) established as per the Act

Jnana Sangama, Belagavi - 590018, Karnataka, India

Phone: (0831) 2498100
Fax: (0831) 2405467

Registrar

Ref: VTU/BOS/SO2/2020-21 / 6335

Date: 15 MAR 2021

Revised - NOTIFICATION (1)

Subject: Revised-Academic Calendar of I semester B.E./B.Tech./B.Plan./B.Arch., and III semesters B.E./B.Tech. programs for AY 2021-22 regarding.

Reference: Hon'ble Vice Chancellor's approval dated 14.03.2022

The academic calendar concerned to I semester of B.E./B.Tech./B.Plan./B.Arch. and III semesters B.Tech.Programs of University is hereby re-notified as below:

Events	I semester B.E./B.Tech./	I semester B.Plan./B.Arch.	III semester B.E./B.Tech.
Commencement of ODD Semester	13.12.2021	13.12.2021	18.10.2021
Last Working day of ODD Semester	13.04.2022	13.04.2022	13.04.2022
Practical Examinations	18.04.2022 to 27.04.2022	18.04.2022 to 27.04.2022	16.04.2022 to 23.04.2022
Theory Examinations	28.04.2022 to 20.05.2022	28.04.2022 to 20.05.2022	25.04.2022 to 15.05.2022
Commencement of EVEN Semester	23.05.2022	23.05.2022	16.05.2022

- If any of the above dates are declared to be a holiday, then the corresponding event will come into effect on the next working day.
- Notification regarding the Calendar of Events relating to the conduct of University Examinations will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued by the Govt. by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges**. In case if any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The faculty/staff shall be available to undertake any work assigned by the university.

The Principals of Affiliated Constituent and Autonomous Engineering Colleges are hereby directed to bring the content of this circular to the notice of all the concerned.

Sd/-
REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.

Academic Calendar for EVEN Semester of UG & PG programs for the year 2021-22

	VI semester B.E./B.Tech.	VI semester B.Arch./ B.Plan.	VIII semester B.E./B.Tech.	VIII semester B.Plan./B.Arch	IX semester B.Arch #	IV Semester B.Arch.	IV semester B. Plan	IV semester MCA	IV semester M.Tech.	IV Semester M.Arch.	VI Sem MCA (2018 scheme)
Commencement of EVEN Semester	04.04.2022	04.04.2022	04.04.2022	04.04.2022	14.02.2022	11.04.2022	11.04.2022	04.04.2022	04.04.2022	06.04.2022	04.04.2022
Last Working day of EVEN Semester	16.07.2022	16.07.2022	30.06.2022	30.06.2022	10.06.2022	23.07.2022	23.07.2022	30.06.2022	30.06.2022	30.06.2022	30.06.2022
Practical/Viva-Examination	18.07.2022 To 29.07.2022	18.07.2022 To 29.07.2022	---	---	20.06.2022 To 22.06.2022	25.07.2022 To 30.07.2022	25.07.2022 To 30.07.2022	04.07.2022 To 09.07.2022	---	---	-----
Theory Examinations	01.08.2022 To 20.08.2022	01.08.2022 To 20.08.2022	04.07.2022 To 20.07.2022	04.07.2022 To 15.07.2022	---	01.08.2022 To 20.08.2022	01.08.2022 To 20.08.2022	11.07.2022 To 28.07.2022	20.07.2022 To 10.08.2022	-----	-----
Internship	---	---	---	---	---	---	---	---	-----	-----	-----
Internship Viva Voce/ Project viva	---	---	22.07.2022 To 30.07.2022	---	---	---	---	-----	-----	-----	-----
Summer Project / Professional training /Organization Study	---	---	---	---	---	---	---	-----	-----	-----	-----
Submission of the report to University	---	---	---	---	---	---	---	-----	04.07.2022 To 18.07.2022	04.07.2022 To 16.07.2022	04.07.2022 To 16.07.2022
Commencement of ODD Semester	22.08.2022	22.08.2022	---	18.07.2022 (B. Arch.)	----	22.08.2022	22.08.2022	----	----	----	----

B.Arch. X and IX semester swapped for AY 2021-22

Please Note:

- The academic sessions for EVEN semesters should commence from the **dates mentioned** above.
- **The Institute can plan to have extra classes before the last working day to complete the requisite hours of teaching and learning of courses as per the scheme.**
- Faculty should conduct additional tutorial classes in Blended mode to solve the doubts of the students.
- The faculty/staff shall be available to undertake any work assigned by the university.
- Notification regarding the Calendar of Events relating to the conduct of University **Examinations** will be issued by the Registrar (Evaluation) from time to time.
- Academic Calendar **may be modified** based on guidelines/directions issued in the future by MHRD/UGC/AICTE/State Government.
- Academic Calendar is also applicable for **Autonomous Colleges.** In case any changes are to be effected by Autonomous Colleges in the academic terms and examination schedule, they could do so with the approval of the University.
- The college has to conduct offline classes to cover **80%** of the syllabus of the courses; however, **20%** of the syllabus can be covered in virtual (Online) mode. **Attendance** of the students for offline and online classes is mandatory and records should be maintained and submitted to the university whenever informed.

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ಎಕಾಯು ಅಧಿನಿಯಮ ೧೯೯೪ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ

'ಜ್ಞಾನ ಸಂಗಮ' ಮಚ್ಛೆ, ಬೆಳಗಾವಿ-590018

Visvesvaraya Technological University

(The State University of Govt. Karnataka, Established as per VTU Act 1994)

"JnanaSangama" Machhe, Belagavi-590018, www.vtu.ac.in

Dr. A. S. Deshpande B.E., Tech., Ph.D.
Registrar

Phone: (0831) 2498100
Fax: (0831) 2405467

Ref. No. VTU/BGM/BOS/2021-22/ 834

Date: 10 MAY 2022

Revised-NOTIFICATION

Subject: - Revised Academic Calendar of IV semester B.E./B.Tech., programs of University regarding...

Reference:

1. Hon'ble Vice-Chancellor's approval dated: 05.05.2022
2. VTU/BGM/BOS/2021-22/709, dated 29.04.2022
3. VTU/Exam/2022-2023110, dated 01.05.2022
4. VTU/Exam/QPDS/2022-23/114, dated 01.05.2022

The revised academic calendar concerned IV semester B.E./B.Tech., programs of University are hereby notified as below-

Events	Existing dates	Revised Dates
Commencement of EVEN Semester	16.05.2022	23.05.2022
Last Working day of the EVEN Semester	27.08.2022	03.09.2022
Practical/Viva Examination	01.09.2022 To 08.09.2022	05.09.2022 To 13.09.2022
Theory Examinations	12.09.2022 To 30.09.2022	16.09.2022 To 08.10.2022
Commencement of next ODD Semester	10.10.2022	10.10.2022

The Principals of Affiliated, Constituent and Autonomous Engineering Colleges are hereby informed to bring the academic calendar to the notice of all concerned.

Sd/-
REGISTRAR

To,

1. The Principals of all affiliated/ constituent /Autonomous Engineering Colleges under the ambit of VTU Belagavi.
2. The chairperson, Department of Mechanical Engineering /Civil Engineering /Computer Science and Engineering and Business Studies of the University.

THE OXFORD COLLEGE OF ENGINEERING

Bommanahalli, Hosur Road, Bangalore-560 068

Calender of Events of BE -Second Semester

for the Academic Year 2021-22

WEEK	MONTH	MON	TUE	WED	THU	FRI	SAT	NO. OF WORKING DAYS	ACTIVITIES
1	JUNE	6 (PWD)	7	8	9	10	11 (H)	5	6th -First Working Day
2	JUNE	13	14	15	16	17	18	6	18th-Friday Time Table
3	JUNE	20	21	22	23	24	25 (H)	5	6th June 2022 First Working Day
4	JULY/JUNE	27	28	29	30 (T1)	1 (T1)	2 (T1)	6	T1 - 1st IA Test
5	JULY	4	5	6	7	8 1st PTM	9(H)	5	8th - 1st PTM
6	JULY	11	12	13	14	15	16	6	16th - Tuesday Time Table
7	JULY	18	19	20	21	22	23 (H)	5	
8	JULY	25	26	27	28(T2)	29(T2)	30(T2)	6	T2 - 2nd IA Test,
9	AUGUST	1	2	3	4	5 2nd PTM	6(H)	5	5th-2nd PTM
10	AUGUST	8	9 (H)	10	11	12	13	5	9th Last Day Moharam 13th Wednesday Time Table
11	AUGUST	15 (H)	16	17	18	19	20 (H)	4	15th Independance Day
12	AUGUST	22	23	24	25(T3)	26(T3)	27(T3)	6	T3 - 3rd IA Test
13	AUGUST	29	30 3rd PTM	31(H) (LWD)				2	30th -3rd PTM 31st- Ganesh Chaturthi
	SEPT.	Practical / Viva Examination 2.9.2022 to 9.9.2022							
	SEPT.	Theory examinations 12.9.2022 to 30.9.2022							

16.6.22

BE-First Year
Chief Coordinator

16/06/22

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TENTATIVE CALENDAR OF EVENTS FOR EVEN SEMESTER 2021-22

(FOR IV BE)

Week No.	Month	Day						No. of working days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	May	23 (FWD)	24	25	26	27	28 (H)	5	23rd - First Working Day
2	May / June	30	31	1	2	3	4	6	
3		6	7	8	9	10	11 (H)	5	
4		13	14	15	16	17	18	6	
5		20	21	22 (T1)	23 (T1)	24 (T1)	25 (H)	5	22nd - 23rd - 24th ...
6	June / July	27	28	29	30	1	2 (PTM)	6	2nd - PTM
7		4	5	6	7	8	9 (H)	5	
8		11	12	13	14	15	16	6	
9		18	19	20	21	22	23 (H)	5	
10		25	26	27	28 (T2)	29 (T2)	30 (T2)	6	28th, 29th & 30th - 2nd IA T...
11	Aug	1	2	3	4	5 (PTM)	6 (H)	5	5th - PTM
12		8	9 (H)	10	11	12	13	5	9th Last Day of Muhar...
13		15 (H)	16	17	18	19	20 (H)	4	15th Independence Day
14		22	23	24	25 (T3)	26 (T3)	27 (T3)	6	25th, 26th & 27th - 3rd I...
15	Aug / Sept	29	30 (PTM)	31 (H)	1	2	3 (H) (LWD)	4	31st - Varalakshmi Vra... 30th - PTM

VTU Practicals Exams Commencement	05-09-2022 to 13-09-2022
VTU Theory Exams Commencement	16-09-2022 to 08-10-2022

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CALENDAR OF EVENTS FOR EVEN SEMESTER 2021-22

(FOR VI & VIII BE)

Week No.	Month	Day						No. of working days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	April	-	-	6 (FWD)	7	8	9	4	6th - First Working Day
2		11	12	13	14 (H)	15 (H)	16 (H)	3	14th - Dr BR Ambedkar Jayanthi 15th Good Friday 16th - Saturday Holiday
3		18	19	20	21	22	23	6	
4		25	26	27	28	29	30 (H)	5	
5	May	2	3 (H)	4	5	6	7	5	3rd - Basava Jayanthi / Ramzan
6		9	10	11 (T1)	12 (T1)	13 (T1)	14 (H)	5	
7		16	17	18	19	20	21	6	
8		23	24	25	26	27	28 (H)	5	
9	May/ June	30	31	1	2	3	4	6	
10		6	7	8 (T2)	9 (T2)	10 (T2)	11 (H)	5	
11		13	14	15	16	17	18	6	
12		20	21	22	23	24	25 (H)	5	
13	June	27	28	29	30	1	2	6	
14		4	5	6	7	8	9 (H)	5	
15		11 (T3)	12 (T3)	13 (T3)	14	15	16 (LWD)	5	16th Last Working Day for 4th & 6th Sem BE

VTU Practicals Exams Commencement	6th Sem BE - 18-07-2022 to 29-07-2022 (11 days)
VTU Theory Exams Commencement	6th Sem BE - 01-08-2022 to 20-08-2022 8th Sem BE - 04-07-2022 to 20-07-2022
InternshipViva voce / Project Viva	8th Sem B E : 22-07-2022 to 30-07-2022

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Even

CALENDAR OF EVENTS FOR EVEN SEMESTER – 2021-22
PG – 2nd SEMESTER MBA PROGRAMME

SLNo	Month	Day						No of Working Days	Activities
		Mon	Tue	Wed	Thu	Fri	sat		
1	June/July	27 (FWD)	28	29	30	1	2	6	First Working Day
2	July	4	5	6	7	8	9(H)	5	
3	July	11	12	13	14	15	16	6	
4	July	18	19	20	21	22	23(H)	5	
5	July	25	26	27	28(T1)	29(T1)	30(T1)	6	T1-1st Internal Assessment Test
6	August	1	2	3	4	5 (PTM)	6(H)	5	Parent Teacher Meeting
7	August	8	9(H)	10	11	12	13	5	Moharram
8	August	15(H)	16	17	18	19	20(H)	5	Independence Day
9	August	22	23	24	25 (T2)	26 (T2)	27(T2)	6	T2-2nd Internal Assessment Test
10	August/ September	29	30	31(H)	1	2	3(H)	4	Vinayaka Chaturthi
11	September	5	6	7	8	9	10 (PTM)	6	Parent Teacher Meeting
12	September	12	13	14	15	16	17(H)	5	
13	September	19 (T3)	20 (T3)	21 (T3)	22	23	24 (LWD)	6	Last Working Day T3- 3rd Internal Assessment Test

VTU Theory Exam	26.09.2022 to 14.10.2022
Internship	15.10.2022 to 15.11.2022
Commencement of Odd semester	28.11.2022

HOD, Dept. of Business Administration
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16/6/22

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MBA
Even

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CALENDAR OF EVENTS FOR EVEN SEMESTER – 2021-22

PG - 4th SEMESTER MBA PROGRAMME

Sl. No	Month	Day						No. of working Days	Activities
		Mon	Tue	Wed	Thu	Fri	Sat		
1	May	9 (FWD)	10	11	12	13	14 (H)	5	First Working day for 4th Semester
2	May	16	17	18	19	20	21	6	
3	May	23	24	25	26	27	28 (H)	5	
4	May/ June	30	31	1	2	3	4	6	
5	June	6	7	8	9	10	11 (H)	5	
6	June	13	14	15 (T1)	16 (T1)	17 (T1)	18 (T1)	6	1st Internal Assessment Test
7	June	20	21	22	23	24 (PTA)	25 (H)	5	Parent – Teacher Meeting
8	June	27	28	29	30	1	2	6	
9	June/ July	4	5	6	7	8	9 (H)	5	
10	July	11	12	13 (T2)	14 (T2)	15 (T2)	16 (T2)	6	2nd Internal Assessment Test
11	July	18	19	20	21	22 (PTA)	23 (H)	5	Parent – Teacher Meeting
12	July	25	26	27	28	29	30	6	
13	Aug	1	2	3	4	5	6 (H)	5	
14	Aug	8 (H)	9	10 (T3)	11 (T3)	12 (T3)	13 (T3)	5	Moharram , 3rd Internal Assessment Test
15	Aug	15 (H)	16	17	18	19 LWD	20 (H)	4	Independence Day, 4th Semester Last working Day

Submission of project report to University	11.07.2022 to 22.07.2022
Theory Examination	22.08.2022 to 14.09.2022

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Principal

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Ref. No./TOCE/Exam/2021-22/ Date: 29-3-2022

IA- TIME TABLE

B.E. I-Semester Third IA - Test:

DATE	DAY	CHEMISTRY CYCLE			PHYSICS CYCLE		
		9.30-10.30	11.30-12.30	2.00-3.00	9.30-10.30	11.30-12.30	2.00-3.00
7-4-2022	THU	21MAT11		21CHE12	21MAT11		21PHY12
8-4-2022	FRI	21PSP13	21EGH18	21EME15	21ELE13	21EGH18	21IDT19
9-4-2022	SAT	21ELN14	21SPH19		21CIV14		

B.E. III-Semester Additional IA - Test:

DATE	DAY	9.30am to 11.00am	2.00pm to 3.30pm
4-4-2022	MON	18MAT31	18**32
5-4-2022	TUE	18**33	18**34
6-4-2022	WED	18**35	18**36

Dr. Mallikarjun K
B.E. First Year
Coordinator

Dr. Mallikharjunaiah J S
Civil HOD

Head of the Department
Department of Civil Engineering
Oxford College of Engineering

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THE OXFORD COLLEGE OF ENGINEERING

Department of Electrical & Electronics Engineering

Bommanahalli , Bangalore - 560068

CIA - I Marks Statement

Subject Code : 18EE62

Subject Name : Power System Analysis-1

Year / Sem: 3 Year / 6 Sem **Faculty Name : Mrs. Sumitha T L**

S.No	USN	Name	Marks (30)	Marks (100)
1	1OX19EE001	AKASH M JITURI	21	70
2	1OX19EE002	ARPITHA A SANNAMANI	15	50
3	1OX19EE003	ARUN S A	6	20
4	1OX19EE004	BALASUBRAMANI S	15	50
5	1OX19EE005	CHETHAN V R	21	70
6	1OX19EE006	DHANANJAYA A M	21	70
7	1OX19EE007	GREESHMA C P	25	83
8	1OX19EE008	JEEVAN G	30	100
9	1OX19EE010	JUNAID UL ISLAM	16	53
10	1OX19EE011	LAKSHMI NARAYANA R	4	13
11	1OX19EE012	LAXMIVINIT	17	57
12	1OX19EE013	LIKHITH R	20	67
13	1OX19EE015	LIKITHA C SHETTY	26	87
14	1OX19EE016	MANUHASA M	17	57
15	1OX19EE017	MEGHANA L	20	67
16	1OX19EE018	MOHAMMED TAMEEM	20	67
17	1OX19EE019	MUHAMMED AFTAB KHAN	0	0
18	1OX19EE020	PANDURANGA PR	19	63
19	1OX19EE021	POOJASHREE G	18	60
20	1OX19EE022	PRERANA R	15	50
21	1OX19EE023	RAKSHITHA C	30	100
22	1OX19EE024	RITHIKA SHARON R	29	97
23	1OX19EE025	S KRISHNA CHARAN	10	33
24	1OX19EE026	SAFEER HUSSAIN RATHER	20	67
25	1OX19EE027	SAI DARSHAN B KATTIMANI	15	50
26	1OX19EE028	SANJU LAISHRAM	11	37
27	1OX19EE029	SHALINI S C	21	70
28	1OX19EE030	SHAUN JERICHO S	30	100
29	1OX19EE031	SHIVANI H	26	87
30	1OX19EE032	SMITHA D M	21	70
31	1OX19EE033	SUJITH KOTHWAL	22	73
32	1OX19EE034	SURYANARAYANAREDDY	20	67
33	1OX19EE035	TEJA V	9	30
34	1OX19EE036	UMAMAH CHAMAN KHAN	25	83
35	1OX19EE037	UZMA PARVEEN H I	19	63
36	1OX19EE038	VINAY A S	15	50

37	1OX19EE039	VINAY C	30	100
38	1OX19EE040	VIVAN AKASH KSHATRIYA	18	60
39	1OX19EE041	YAMINI C	23	77
40	1OX19EE042	YAMINI P	30	100
41	1OX19EE043	BHARAT KUMAR K P	4	13
42	1OX19EE044	MOHAMMED RAYAN R	18	60
43	1OX20EE401	YASHITHA	24	80
44	1OX20EE400	VAMSHI	25	83
45	1OX16EE039	NETHRAVATHI K	15	50
46	1OX18EE007	ARCHANA C M	22	73
47	1OX18EE010	BHARAT G B	6	20
48	1OX18EE039	NITHIN T	17	57
49	1OX18EE048	ROHAN JOHNSON M	15	50
50	1OX18EE060	SUDARSHAN	AB	AB

Total No. of Students	50
No. of Students Appeared	49
No. of Students Passed	41
No. of Students Failed	8
Class Average	62.31
No. of Students above Class Average	27
Maximum Marks	100.00
Minimum Marks	0.00
Pass Percentage	84%
Teaching Effictiveness = Class Average Marks/ Total Marks	62%
Learning Effictiveness =(Number of Students>Avg/Total No of students)*100	55%

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Mrs. Sumitha T L
STAFF IN CHARGE

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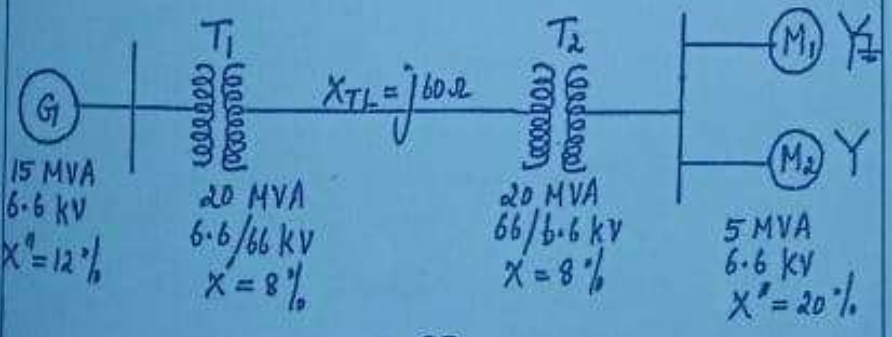
B.E. Electrical and Electronics Engineering
Outcome Based Education (OBE) and Choice Based Credit System (CBCS), VTU
Semester-VI
Internal Assessment Test- I
Date: 11-05-2022 – AN [2:00PM – 3:30 PM]

Subject Code:	18EE62 – Set A	IA Marks:	30
Subject Title:	Power System Analysis – I	Exam Hrs:	90 minutes

Course Objectives: This course will enable the students to

- To introduce the per unit system and explain its advantages and computation.
- To explain analysis of 3-phase symmetrical faults on synchronous machine &simple power systems.
- To explain the concept of sequence impedance and its analysis in three phase unbalanced circuits
- To explain the analysis of synchronous machine and simple power systems for different unsymmetrical faults using symmetrical components
- To discuss the dynamics of synchronous machine and derive the power angle equation for a synchronous machine.
- Discuss stability and types of stability for a power system and the equal area criterion for the evaluation of stability of a simple system

Note: Answer FIVE full questions

Sl. No	Questions	Marks	CO-PO	Bloom's Taxonomy Level
Q.1	A. Prove that the per unit impedance of a transformer is the same when referred to either primary or secondary side. Also, draw the circuit model of transformer.	6	CO – 1, PO -1, 2	L – 4
	OR			
	B. What is per unit quantity? Mention its advantages. How is the per unit impedance value in a given base are changed to per unit impedance value of new base.	6	CO – 1, PO -1, 2	L - 1
Q.2	A. Draw the pu reactance diagram of the system shown below in common base of 15 MVA, 6.6 KV in the generator side. 	6	CO – 1, PO -1, 2	L – 5
	OR			
	B. Draw the per unit reactance diagram choosing a base of 20MVA, 132KV in Transmission line. The ratings are given in the diagram shown below. 	6	CO – 1, PO -1, 2	L - 3

Q.3	A. A three winding transformer has rating as follows: Primary : Y connected, 6.6kV, 15MVA secondary: Y connected, 33kV, 10MVA tertiary : Δ connected, 2.2kV, 7.5MVA Leakage impedance measured from primary side as Zps=j0.232 Ω , Zpt = j0.29 Ω and on the secondary side Zst'= j8.7 Ω. Obtain the star connected equivalent on a base of 15MVA, 6.6kV in the primary circuit. Neglect resistances. OR B. A 3-Φ, Δ-Y transformer with rating 100KVA,11kV/400V hasits primary and secondary leakage reactance of 12 Ω/phase and 0.05 Ω/phase respectively. Calculate the p.u reactance of the transformer.	6 6	CO – 1, PO -1, 2 CO – 1, PO - 1,2	L - 4 L - 5
Q.4	A. Explain the transients occurring on a transmission line due to a short circuit. Obtain the expression for maximum momentary current. OR B. A synchronous generator and motor are rated for 25,000kVA, 13.2kV, both have subtransient reactance of 15%. The line connecting them has a reactance of 10% on the base of machine ratings. The motor is drawing 20,000kW at 0.8 p.f leading. The terminal voltage of the motor is 12.8kV. When a symmetrical three phase fault occurs at motor terminals, Estimate the subtransient current in generator, motor and at the fault point using Kirchoff's laws.	6 6	CO – 2, PO - 1,2,3,4 CO – 2, PO - 1,2,3,4	L – 2 L - 5
Q.5	A. With the help of the oscillogram of short circuit current of a synchronous generator operating on no load, distinguish between subtransient, transient and steady state periods. Prove that Xd" < Xd' < Xd OR B. What is a fault? What are the causes of fault? Write the classification of faults in power system.	6 6	CO – 2, PO - 1,2,3,4 CO – 2, PO-1,2,3,4	L – 4 L - 5

Course Outcomes: After studying this course, students will be able to

CO1: Show understanding of per unit system, its advantages and computation.

CO2: Perform short circuit analysis on a synchronous machine and simple power system to select a circuit breaker for the system.

CO3: Evaluate symmetrical components of voltages and currents in un-balanced three phase circuits.

CO4: Explain the concept of sequence impedance and sequence networks of power system components and power system.

CO5: Analyze three phase synchronous machine and simple power systems for different unsymmetrical faults using symmetrical components.

CO6: Discuss the dynamics of synchronous machine, stability and types of stability.

PO / CO	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
CO1	3	3	2	2	1	1	-	-	1	1	-	1
CO2	3	3	3	3	2	1	-	-	1	1	-	1

"1" – Slight (Low) Correlation, "2" – Moderate (Medium) Correlation,
"3" – Substantial (High) Correlation and "-" indicates there is no correlation.

6/5/22

Faculty Incharge
(Mrs. Sumitha T L)

HOD/EEE

Professor & Head
Dept. of EEE
The Oxford College of Engg
Bommanahalli, Hosur Road

CHILDREN'S EDUCATION SOCIETY (REGD.)
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Ref. No. TOCE/EST/06/2020-21/010 Date:21-12-2021

CIRCULAR

Faculty are hereby informed to strictly adhere to the following instructions during Internal Assessment Invigilation Duty.

1. Faculty / Invigilators are advised not to allow the students who are late to the IA Test and students should not be allowed to go out from the classrooms till the end of IA Test.
2. All the faculty are strictly instructed to wear ID Cards in the campus and while on Invigilation duty also.
3. Faculty are also advised to go on rounds in the classrooms and invigilate during the IA Test.
4. Faculty are advised to mandatory verify and sign in the blue books.
5. HODs are informed to submit the list of Absentees to the IA Test within 30 minutes after the commencement of the IA to this office.

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Bengaluru-560 068

To
1. The HODs

Copy to
The Chairman, TOEI - for kind information

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Ref: TOCE/IQAC/RA/2021-22/03

Date: 21.12.2021

IQAC

CIRCULAR

All the HODs are here by informed that 5th and 7th Semester (B.E) and 3rd Sem (MCA & MBA) IA Result Analysis Discussion has been scheduled on 29th,30th of December 2021 as per below schedule

S. No	Date	Time	Department	Committee Members
1	29-12-2021	9.30 am -11 am	CSE, ISE	Dr B K Manjunatha, Dr Madhusudan Reddy & Dr B R Raju
		11.15 am - 12.45 pm	ECE, EEE	Dr R Ch A Naidu, Dr R Kanagavalli & Dr Tharaka Rami Reddy
		1.00 pm -2.30 pm	AUTO, MCA	Dr Manju Devi & Dr V S Bharath
		2.45 pm - 4.15 pm	BT, CIVIL	Dr R Ch A Naidu & Dr Manjula
2	30-12-2021	9.30 am -11 am	ME,MT	Dr B K Manjunatha & Dr M S Shashidhara
		11.15 am - 12.45 pm	MBA	Dr Manju Devi & Dr Malleshaiah.T.S

21/12/21

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Proceedings of the meeting held on 11th February, 2022 – 9:45 am to 10:30 am

Agenda of the meeting:

1. 5th and 7th semester IA-3 Result Analysis discussion.

Committee members:

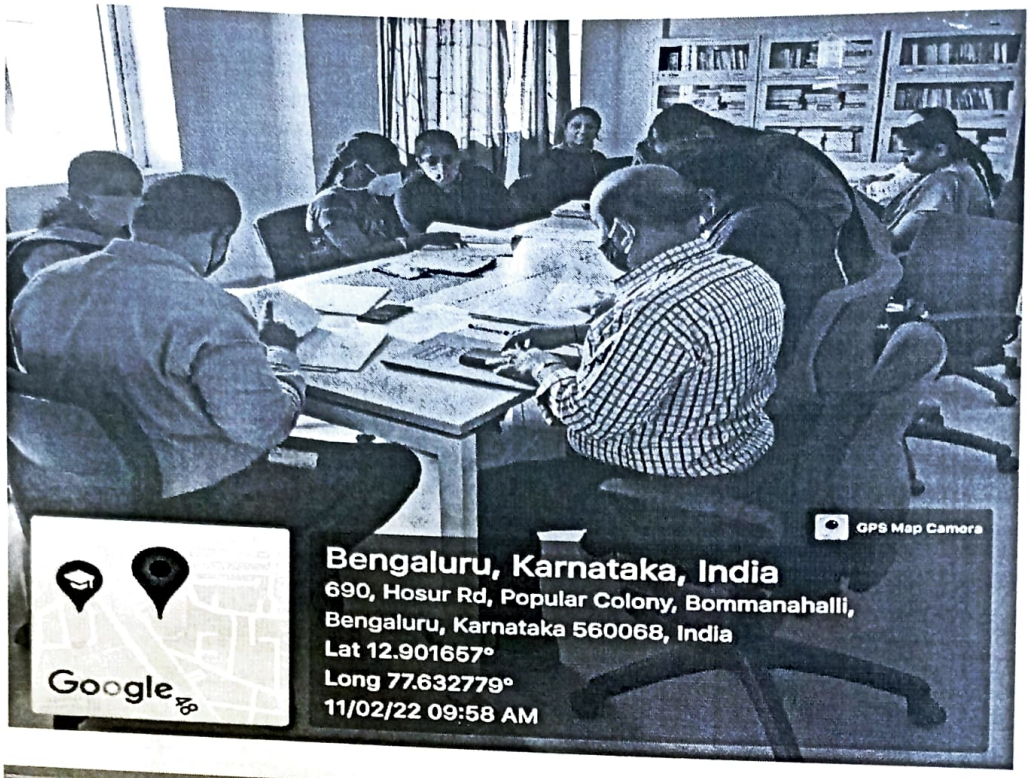
1. Dr. R Ch A Naidu, Professor & Head, Department of CSE, TOCE
2. Dr. R Kanagavalli, Professor & Head, Department of ISE, TOCE
3. Dr. Tharaka Rami Reddy, Professor, Department of MBA, TOCE

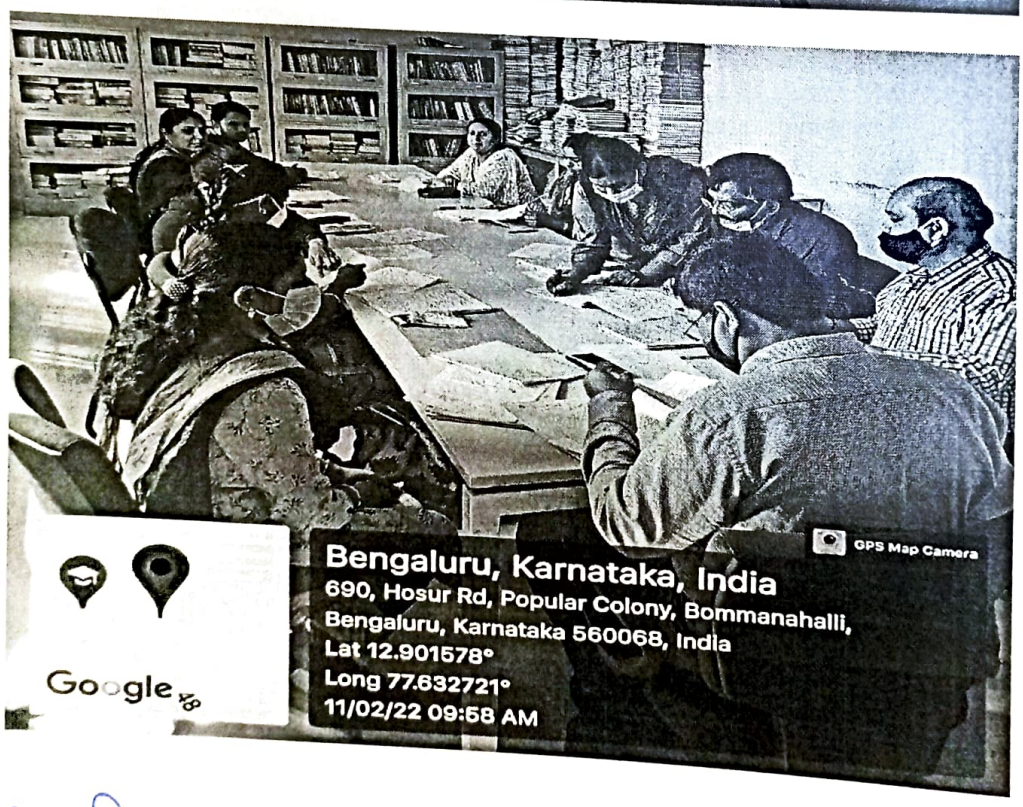
The following faculty members were present:

1. Dr. Bharath V. S, Professor & Head, Department of EEE, TOCE
2. Dr. Devi Vigneshwari B, Associate Professor, Department of EEE, TOCE
3. Mrs. Nisha C. Rani, Assistant Professor, Department of EEE, TOCE
4. Mrs. Raichel Ruby, Assistant Professor, Department of EEE, TOCE
5. Mrs. Sumitha T. L, Assistant Professor, Department of EEE, TOCE
6. Mrs. Resna S.R, Assistant Professor, Department of EEE, TOCE
7. Mr. Anoop H. K, Assistant Professor, Department of EEE, TOCE
8. Mrs. Manjushree J, Assistant Professor, Department of EEE, TOCE

Observations of the Committee members:

1. Row-wise and column-wise total marks should be entered in the front page of the Bluebook.
2. Do not give full marks even if there is a small careless mistake in the final step of the solution.
3. Full marks should not be given if the unitof the calculated parameter is not written.
4. Retest for IA-2 is conducted after IA-3 for the student who is absent for IA-2 due to illness.





HOD/EEE

12/2/22

Professor & Head
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DEPARTMENT OF ELECTRICAL &ELECTRONICS ENGINEERING

Minutes of meeting held on 9th February, 2022 – 11:00 am to 11:45 am

Agenda of the meeting:

1. 5th and 7th semester IA-3 Result Analysis discussion.

The following faculty members were present:

Sl. No	Name of the Faculty	Sl. No	Name of the Faculty
1	Dr. Bharath V. S	5	Mrs. Sumitha T. L
2	Dr. Devi Vigneshwari B	6	Mrs. ResnaS.R
3	Mrs. Nisha C. Rani	7	Mr. Anoop H. K
4	Mrs. Raichel Ruby M	8	Mrs. Manjushree J

Dr.Bharath V. S, Professor andHOD, welcomed the faculty members and suggested the followingpointsto improve the results:

1. The 7thand 5thsemester IA-1, IA-2 and IA-3 comparative result analysis and IA-3 individual subject result analysis is presented.

2. HOD asked the respective faculty members to submit the documents and proofs for the action taken after IA-2 result analysis.

3. The subjects with less than 75% pass percentage – 18EE72 and 18EE734 for 7th semester B section; 18EE53, 18EE54 for 5th semester.

4. HOD asked the course instructor of the above subjects about the action that will be taken to improve the results;

5.HOD suggested to conduct extra classes and give sufficient practice for the students who have failed; Tests and assignments should be given during extra class and monitor the students carefully and correct their mistakes.

6. The course instructor should ensure that all the weak students attend the extra classes, and they show good improvement. The proofs should be submitted to HOD.

7. HOD also suggested to make groups of weak and good students so that good students can give some guidance to the weak students.

8. PTM should be arranged for all the failed students.

HOD/EEE 9/2/22

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INTERNAL TEST 2 Details

TEST NO. : 2					TEST PERIOD: Dec 2021								
CLASS (BRANCH/ YEAR /SEC)	CLASS STRENGTH	NO. OF STUDENTS APPEARED	NO. OF STUDENTS PASSED IN ALL SUBJECTS	OVERALL PASS %	NO. OF STUDENTS FAILED IN			OVERALL PASS PERCENTAGE IN			COMPARED TO PREVIOUS TEST		DATE ON WHIC PROGRESS REPO COMMUNICATE TO ALL PARENT
					1 SUB	2 SUB	3 & MORE SUB	TEST 1	TEST 2	TEST 3	NO. OF NEW FAILURES FROM THIS TEST	NO.OF NEW ALL PASSES COMPARED TO PREVIOUS TEST	
EEE/2Yr/3rd sem	21	20	13	65%	3	0	4	58	65	NA	Nil	2	

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THE OXFORD COLLEGE OF ENGINEERING, BANGALORE

B.E. Electrical and Electronics Engineering

4. A. TEST ANALYSIS-III SEM

TEST NO. : 1														
					TEST PERIOD: NOV 2021									
CLASS (BRANCH/ YEAR /SEC)	CLASS STRENGTH	NO. OF STUDENTS APPEARED	NO. OF STUDENTS PASSED IN ALL SUBJECTS	OVERALL PASS %	NO. OF STUDENTS FAILED IN			OVERALL PASS PERCENTAGE IN			COMPARED TO PREVIOUS TEST		DATE ON WHI PROGRESS REPC COMMUNICATEI TO ALL PARENTS
					1 SUB	2 SUB	3 & MORE SUB	TEST 1	TEST 2	TEST 3	NO. OF NEW FAILURES FROM THIS TEST	NO.OF NEW ALL PASSES COMPARED TO PREVIOUS TEST	
EEE/2YR/3	21	19	11	58	2	2	4	58	NA	NA	NA	NA	NA

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4. B. TEST PERFORMANCE FOLLOW-UPS

STAFF PRODUCED RESULTS LESS THAN 75%							
STAFF NAME	DEPT.	SUBJECT	PASS %	NATURE OF SUBJECT (Analytical / Theory)	OBSERVATIONS FROM TEST PERFORMANCE	ACTION TAKEN	EFFECTIVENE
Mrs.Sandhya Rai	EEE	Electrical Circuit Analysis	70%	Analytical	Small careless Mistakes Shortage of Time ,Confusion in procedure for solving problems	To Write both Question Paper as Assignment	NA

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4. C. TEST PERFORMANCE IMPROVEMENT STRATEGIES:

DEPARTMENT	PASS PERCENTAGE	IMPROVEMENT STRATEGIES	INITIATED FROM	EFFECTIVENESS /EXPECTED OUTCOME
EEE –3rdSemester	65%	1. Organizing remedial classes for failed students. 2.Good Students will be made as team leader and conduct coaching classes for Failed students 3.Planning to give more practical assignments 4 Planning to conduct test after completion of chapter and revision class on important topics 5. Planning to conduct test in important questions during tutorial session 6 Planning to give more problems.	10th Jan 2022	Improvement in Teaching and Learning Effectiveness

Professor & Head EEE
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Annexure –A

List of Failed Students Subject Wise

Subject Code :	18MAT31			
Subject Name:	Engg.Maths III			
Year / Sem:	2nd / 3rd Sem	Faculty Name : Dr.Hemalatha		
S.No	USN	Name	Marks (30)	Marks (100)
1	1OX20EE007	KOMALA V	6	20
2	1OX20EE009	MALLIKARJUNA K V	7	23

Subject Code :	18EE32			
Subject Name:	Electrical Circuit Analysis			
Year / Sem:	2nd / 3rd Sem	Faculty Name : Mrs.Sandhya Rai		
S.No	USN	Name	Marks (30)	Marks (100)
1	1OX20EE007	KOMALA V	7	23
2	1OX20EE009	MALLIKARJUNA K V	2	7
3	1OX20EE012	NAZIM KHAN	13	43
4	1OX20EE016	RASHMI M	12	40
5	1OX20EE017	SHASHIKUMAR RAJU URS H G	9	30
6	1OX20EE018	SHUBHAM AGRAWAL	5	17

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Subject Code :	18EE33	7A		
Subject Name:	Advanced Control Systems			
Year / Sem:	2nd / 3rd Sem	Faculty Name : Mrs. Prakruthi P		
S.No	USN	Name	Marks (30)	Marks (100)
1	1OX20EE007	KOMALA V	6	20
2	1OX20EE010	MOHAMMED MUAAZ AHMED	12	40
3	1OX20EE018	SHUBHAM AGRAWAL	9	30

Subject Code :	18EE34			
Subject Name:	Analog Electronics			
Year / Sem:	2nd / 3rd Sem	Faculty Name : Mrs.Poornima		
S.No	USN	Name	Marks (30)	Marks (100)
1	1OX20EE009	MALLIKARJUNA K V	3	10

Subject Code :	18EE35			
Subject Name:	Digital System Design			
Year / Sem:	2nd / 3rd Sem	Faculty Name : Mrs.Nisha C Rani		
S.No	USN	Name	Marks (30)	Marks (100)
1	1OX20EE007	KOMALA V	9	30
2	1OX20EE012	NAZIM KHAN	5	17
3	1OX20EE018	SHUBHAM AGRAWAL	9	30

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Subject Code :	18EE36			
Subject Name:	Electrical and Electronics Measurements			
Year / Sem:	2nd / 3rd Sem	Faculty Name : Mrs.Resna		
S.No	USN	Name	Marks (30)	Marks (100)
1	1OX20EE007	CHANDAN M V	12	40
2	1OX20EE007	KOMALA V	2	7
3	1OX20EE009	MALLIKARJUNA K V	5	17
4	1OX20EE012	NAZIM KHAN	11	37
5	1OX20EE018	SHUBHAM AGRAWAL	11	37

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18EE62 - Power System Analysis - 1

Internal Assessment - I

Date: 23/5/22
Time: 2:00 to 3:30 PM

Set A - Scheme of Evaluation

Q1. A. $Z_{eq(1)B} = \frac{(kV_{B1})^2}{MVA_B}$; $Z_{eq2(B)} = \frac{(kV_{B2})^2}{MVA_B}$ (1 mark)

$Z_{eq1(pu)} = \frac{Z_{eq1}}{Z_{eq(B)}} = Z_{eq1} * \frac{MVA_B}{kV_{B1}^2}$ (1 mark)

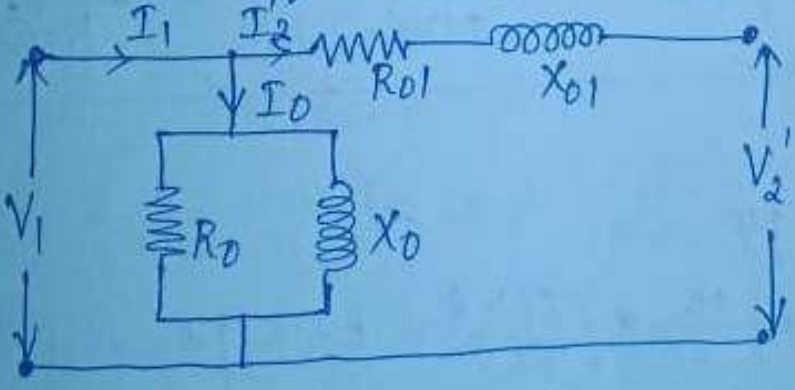
$Z_{eq2(pu)} = \frac{Z_{eq2}}{Z_{eq2(B)}} = Z_{eq2} * \frac{MVA_B}{kV_{B2}^2}$ (1 mark)

Equivalent impedance referred to 2° side,

$Z_{eq2} = Z_{eq1} * \left(\frac{kV_{B2}}{kV_{B1}}\right)^2$

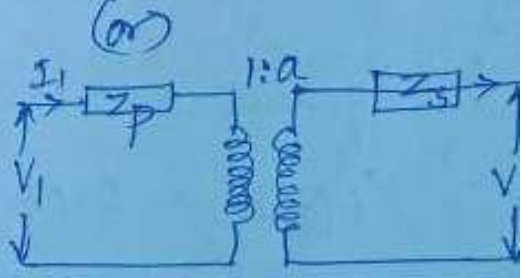
$\therefore \boxed{Z_{eq2(pu)} = \frac{Z_{eq(1)}}{Z_{eq1(B)}} = Z_{eq1(pu)}}$ (2 marks)

Circuit model of transformer:



(1 mark)

(or)

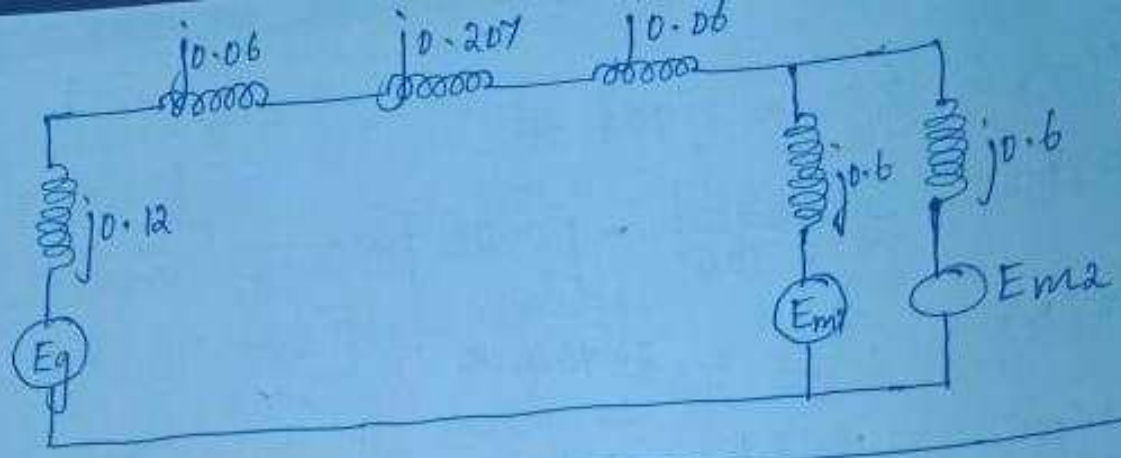


(OR)

B. Per unit quantity = $\frac{\text{Actual value}}{\text{Base value}}$ (1 mark)

Advantages (any 3 points - 3 marks)

* pu impedance referred to either side of a tr. remains same



(1 mark)

(OR)

B. Section 2: 20 MVA, 132 kV in tr. line.

Section 1: $KV_{B(new)} = 132 * \frac{12.7}{132} = 12.7$ kV

Section 3: $KV_{B(new)} = 132 * \frac{11}{132} = 11$ kV

(1 mark)

$X''_{g(new)} = 0.15 * \frac{20}{20} * \left(\frac{11}{12.7}\right)^2 = 0.1125$ pu

$X_{m(new)} = 0.15 * \frac{20}{25} * \left(\frac{11}{11}\right)^2 = 0.2$ pu

(1 mark)

$X_{T1(new)} = 0.1 * \frac{20}{25} * \left(\frac{132}{132}\right)^2 = 0.08$ pu

$X_{T2(new)} = 0.1 * \left(\frac{20}{20}\right) * \left(\frac{132}{132}\right)^2 = 0.1$ pu

1 mark

$X_{TL(pu)} = \frac{200 + j500}{132^2/20} = (0.229 + j0.574)$ pu

(1 mark)

$Z_{load(actual)} = \frac{V^2}{P - jQ} = \frac{11^2}{4 - 3j} = (19.36 + j14.52)\ \Omega$

(1 mark)

$Z_{load\ (pu)} = \frac{19.36 + j14.52}{11^2/20} = (3.2 + j2.4)$ pu

(1 mark)

* pu impedance of 3-ϕ tr. is same regardless of the connections.
* impedance of a device is specified in pu on the base of the name plate rating.
* pu impedance of machines of same type and wide rating lies within a narrow range.
* computational effort reduces.
* line-to-phase value or vice versa conversions reduced.

Changing the base: (2 marks)

$$Z_{pu(old)} = \frac{Z(ohms) * MVA_{B(old)}}{KV^2_{B(old)}}$$

$$Z_{pu(new)} = \frac{Z(ohms) * MVA_{B(new)}}{KV^2_{B(new)}}$$

$$\therefore Z_{pu(new)} = Z_{pu(old)} * \frac{MVA_{B(new)}}{MVA_{B(old)}} * \frac{KV^2_{B(old)}}{KV^2_{B(new)}}$$

Q2.
A. $X_{g(new)} = 0.12$ pu (1 mark)

$X_{t(new)} = 0.08 * \frac{15}{20} * \left(\frac{66}{66}\right)^2 = 0.06$ pu (1 mark)

$X_m = 0.2 * \frac{15}{15} * \left(\frac{6.6}{6.6}\right)^2 = 0.6$ pu (1 mark)

$X_{TL(B)} = \frac{66^2}{15} = 290.4\ \Omega$ (1 mark)

$X_{TL(pu)} = \frac{j60}{290.4} = j0.207$ pu (1 mark)

Q5 A. Oscillogram ——— (2 marks)

Subtransient state – $X_d'' = X_l + \frac{1}{\frac{1}{X_a} + \frac{1}{X_f} + \frac{1}{X_{dw}}}$ (1 mark)

Transient state – $X_d' = X_l + \frac{1}{\frac{1}{X_a} + \frac{1}{X_f}}$ (X_{dw} open) (1 mark)

Steady state – $X_d = X_l + X_a$ (X_f open circuited) (1 mark)

$X_d'' < X_d' < X_d$ (1 mark)

[OR]

B. Fault is any failure which interferes with the normal flow of current. (1 mark)

Causes: (2 marks)

* insulation failure
* Flashover of lines due to lightning.
* permanent damage to conductors, towers,..
* accidental faulty operations.

Types: (3 marks)

(i) Shunt faults
* L-G fault
* L-L fault
* L-L-G fault
* 3-ϕ faults.

(ii) Series faults:
* one open conductor fault
* two open conductor fault