



Various ways and means adopted for an effective planning and delivery of the Syllabus is carried out through several activities. All these activities are well documented namely:

Academic Calendars

Time Table

Micro Lesson plans

Pedagogical Methods

Orientation Programmes

Seminars / Workshops /Conferences

Guest Lectures

Refreshers courses /FDPs

Well-equipped Laboratories

Central Library

Projects

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Directorate of Academic Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/AC/B. Tech/I Year/2020-21

Date: 05-01-2021

Dr. R. Srinivasa Rao,
Director, Academic Planning
JNTUK, Kakinada

To
All the Principals of Affiliated Colleges,
JNTUK, Kakinada.

Academic Calendar for I Year B. Tech
Academic year 2020-21

I SEMESTER			
Description	From	To	Weeks
Commencement of Class Work	06.01.2021		
I Unit of Instruction	06.01.2021	20.02.2021	7W
I Mid Examinations	15.02.2021	20.02.2021	1W
II Unit of Instructions	22.02.2021	10.04.2021	7W
II Mid Examinations	05.04.2021	10.04.2021	1W
Preparation & Practicals	12.04.2021	17.04.2021	1W
End Examinations	19.04.2021	01.05.2021	2W
Commencement of II Semester Class Work	03.05.2021		
II SEMESTER			
I Unit of Instructions	03.05.2021	19.06.2021	7W
I Mid Examinations	14.06.2021	19.06.2021	1W
II Unit of Instructions	21.06.2021	31.07.2021	7W
II Mid Examinations	26.07.2021	31.07.2021	1W
Preparation & Practicals	02.08.2021	07.08.2021	1W
End Examinations	09.08.2021	21.08.2021	2W
Commencement of next Year Class Work	30.08.2021		
<i>Note: Calendar is prepared with 8 hrs/day hence 7 weeks per instruction period Internal Examinations shall be conducted during the instructional days</i>			

R. Srinivasa Rao
Director Academic Planning
Academic Planning
JNTUK Kakinada

Copy to the Secretary to the Hon'ble Vice Chancellor, JNTUK
Copy to the PA to Rector, Registrar JNTUK
Copy to Director Academic Audit, JNTUK
Copy to Director of Evaluation, JNTUK

for
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Time Table:


Andhra Loyola Institute of Engineering and Technology, Vijayawada
Department of Mechanical Engineering

Time Table of – II EEE

Sem-2

DAY/HOUR	1	2	3	LUNCH BREAK	4	5	6	7	
MON	EMF	ECA-II	EM-I		THPM	EDC	EM-I		
TUE	PLACEMENT TRAINING	ECA-II	EDC		EM-I	THPM	MEFA	EMF	
WED	THPM	EDC	EM-I		MEFA	ECA-II	EMF	EM-I	
THU	ECA-II	EMF	EM-I		EDC	PLACEMENT TRAINING	THPM	MEFA	
FRI	MEFA	EMF	ECA-II		THPM	PLACEMENT TRAINING	EDC	EITK	
SAT	THPM	ECA-II	EDC		MEFA	PLACEMENT	EMF		

S.No	Name Of The Faculty	Subject
1	Dr.M.Ajay Kumar	Electrical Circuit Analysis - Ii
2	Mr.M.Ramesh Kumar	Electrical Machines-I
3	Mr.G.Roopu Krishna Chandra	Electronic Devices And Circuits
4	Mr.M.Rama Krishna	Electro Magnetic Fields
5	Ms. B.Sri Chaitanya	Thermal And Hydro Prime Movers
6	Mrs.Vijaya Lakshmi	Managerial Economics & Financial Analysis
7	Ms. B.Sri Chaitanya /Mr. T.Subba Reddy	Thermal And Hydro Laboratory
8	Dr.M.Ajay Kumar/Ms.A.Sireesha	Electrical Circuits Laboratory


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• **Micro Lesson Plan:**



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Vijayawada

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

DETAILED LESSON PLAN

Faculty: Mr.M.Ramesh Kumar

Programme	B.Tech, Electrical & Electronics Engineering
Semester	II Year - I Semester
Subject Title	Electrical Machines-I
Subject Code	R1921022
Class Hours	5 hours per week
Total Hours	70
Credits	3
Max Marks	100
Unit & Title	Unit-I: Construction and Operation of DC Machines
Teaching and Learning Tools	Black Board/ Power Point Presentation/Videos, E-material.

Course Objectives:

This subject provides students with

- ✚ To understand the construction, principle of operation and performance of DC machines.
- ✚ To study the characteristics, performance, methods of speed control and testing methods of DC motors.
- ✚ To predetermine the performance of single phase transformers with equivalent circuit models, methods of testing of single-phase transformer.
- ✚ To Analyze the three phase transformers and achieve three phase to two phase conversion.

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Session/ Module/ Day	Topic	Objectives	Before Class (Videos, E-Books, Case Studies)	In Class (Activities, Quiz, Solving Problems)	Post Class (Assignment , Discussion Forum)
Day-1	Introduction to Electrical Machines and Revising basic Electrical Circuits definitions and laws.	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▣ Discuss pre-requisites (10 Min) • Class Delivery (30 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-2	Classification of Electrical Machines and Introduction to DC Machines.	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-3	Principle and Operation of a simple Machine using single loop generator	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-4	Construction of DC machine	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-5	EMF equation for generator	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.


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Day-6	Classification of DC machines based on excitation. (Separately-excited, Self-excited: Shunt Machines)	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-7	Classification of DC machines based on excitation. (Self-excited: Series, Compound Machines)	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-8	Characteristics of DC Generators.	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-9	Open Circuit Characteristics of DC Shunt Generator	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.
Day-10	Applications of DC Generators	To revise the concepts of machines on specific parameters	https://www.electrical4u.com/applications-of-dc-generators/	<ul style="list-style-type: none"> ▢ Discuss pre-requisites (10 Min) ▢ PPT Presentation (30 Min) ▢ Poll activity (5 min) ▢ Summery (5min) 	Learning outcomes – Students should be able to: ❖ Assimilate the concepts of electromechanical energy conversion.


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Day-11	Problems on Generated EMF, Shunt Generator	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/lectrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Assimilate the concepts of electromechanical energy conversion. ❖ Assignment on EMF equation
Day-12	Problems on Series and Compound Generator	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/lectrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Assimilate the concepts of electromechanical energy conversion. ❖ Assignment on Self-excited Machines
Day-13	Problems on Open Circuit Characteristics of DC Machine	To understand the construction, principle of operation and performance of DC machines	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/lectrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Assimilate the concepts of electromechanical energy conversion. ❖ Assignment on critical speed and critical resistance calculation
Day-14	Introduction to DC Motors, Principle and operation of DC Motor	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/lectrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.

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Day-15	Classification of Motors and their relevant equations	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-16	Significance of Back-EMF and Torque	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-17	Classification of DC machines based on excitation. (Separately-excited, Self-excited: Shunt Machines)	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-18	Classification of DC machines based on excitation. (Self-excited: Series, Compound Machines)	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-19	Classification of Torques in DC Motors	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation

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					n in dc machines.
Day-20	Armature Reaction	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf https://www.electrical4u.com/armature-reaction-in-dc-machine/	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	<p>Learning outcomes – Students should be able to:</p> <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-21	Commutation	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf https://www.electricalstudynotes.com/2017/05/commutation.html	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	<p>Learning outcomes – Students should be able to:</p> <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-22	Different types of characteristics to determine Performance of DC Motor (Separately – Excited, Shunt)	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	<p>Learning outcomes – Students should be able to:</p> <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-23	Different types of characteristics to determine Performance of DC Motor (Series, Compound Motor)	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	<p>Learning outcomes – Students should be able to:</p> <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.

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Day-24	Losses in a DC Machine	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf https://www.electrical4u.com/losses-in-dc-machine/	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-25	Efficiency of a DC Machine	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf https://www.electrical4u.com/losses-in-dc-machine/	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-26	Applications of DC Motors	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf https://circuitglobe.com/applications-of-dc-machines.html	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-27	Problems Generated on EMF, Shunt Motor	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines. ❖ Assignment of Back-EMF

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Day-28	Problems on Series and Compound Motor	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines. ❖ Assignment of self Excited Machines-EMF
Day-29	Problems on losses and efficiency	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines. ❖ Assignment on efficiency calculation
Day-30	Problems on losses and efficiency	To describe the effect of Armature Reaction, importance of Commutation and losses in a DC Machine.	Electrical Machines text book	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines.
Day-31	Introduction to the importance of Starter in Machines	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Understand the torque production mechanism and control the speed of dc motors.

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Day-32	Types of starters used for DC motor starting.	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-33	Types of starters used for DC motor starting.	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-34	Speed Control of DC Machines (Shunt Motor)	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.electrical4u.com/speed-control-of-dc-motor/	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-35	Speed Control of DC Machines-(Series Motor)	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.electrical4u.com/speed-control-of-dc-motor/	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-36	Testing of DC Machines-Brake test	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.

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Day-37	Testing of DC Machines- Swinburne's test	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-38	Testing of DC Machines- Hopkinson's test	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.electrical4u.com/hopkinsons-test/	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-39	Testing of DC Machines- Retardation test	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.electricalengineeringinfo.com/2014/03/Retardation-test-on-dc-machines.html	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-40	Separation of Losses	To study the methods of speed control and methods of testing methods to calculate the efficiency	Electrical Machines text book https://www.slideshare.net/sureshshindhe1/separation-of-losses-in-a-dc-shunt-motor	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Understand the torque production mechanism and control the speed of dc motors.
Day-41	Introduction to Transformers, laws, Types of Transformers based on operation	To explain the principle and operation of transformer, equivalent circuit models of transformers	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single phase transformers



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Day-42	Construction of Transformers in detail, Transformation Ratio	To explain the principle and operation of transformer, equivalent circuit models of transformers	https://www.youtube.com/watch?v=Cx4_7IIjoBA https://www.electrical-asy.com/2014/03/electrical-transformer-basic.html	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers .
Day-43	Principle of Operation of transformer	To explain the principle and operation of transformer, equivalent circuit models of transformers	https://www.electronicstutorials.ws/transformer/transformer-basics.html https://www.youtube.com/watch?v=aguizHdv tjc	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers .
Day-44	EMF Equation for transformers	To explain the principle and operation of transformer, equivalent circuit models of transformers	https://circuitglobe.com/emf-equation-of-the-transformer.html	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers .
Day-45	Phasor diagram of transformer at different loads	To explain the principle and operation of transformer, equivalent circuit models of transformers	https://www.youtube.com/results?search_query=phasor+diagram+of+transformer	<ul style="list-style-type: none"> ▣ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	Learning outcomes – Students should be able to: ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers .

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Day-46	Implementation of Equivalent Circuit for Transformer	To explain the principle and operation of transformer, equivalent circuit models of transformers	https://www.youtube.com/results?search_query=equivalent+circuit+of+transformer	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single phase transformers
Day-47	Voltage Regulation of Transformer	To explain the principle and operation of transformer, equivalent circuit models of transformers	https://www.electrical4u.com/voltage-regulation-of-transformer/	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers
Day-48	Losses and Efficiency of Transformer	To explain the principle and operation of transformer, equivalent circuit models of transformers	https://www.electrical4u.com/2014/04/transformer-losses-and-efficiency.html	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers
Day-49	Effect of variation of frequency and supply voltage on losses	To explain the principle and operation of transformer, equivalent circuit models of transformers	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers

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Day-50	All-day Efficiency, Problem	To explain the principle and operation of transformer, equivalent circuit models of transformers	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single phase transformers .
Day-51	Problems on EMF Equation	To explain the principle and operation of transformer, equivalent circuit models of transformers	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single phase transformers . ❖ Assignment on EMF calculation
Day-52	Problems on Voltage Regulation	To explain the principle and operation of transformer, equivalent circuit models of transformers	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and efficiency of single-phase transformers . ❖ Assignment on VR calculation
Day-53	Problems on losses and Efficiency	To explain the principle and operation of transformer, equivalent circuit models of transformers	Electrical Machines text book https://www.amieindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able <ul style="list-style-type: none"> ❖ Analyze the performance ; predetermine regulation, losses and

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					<p>efficiency of single-phase transformers</p> <ul style="list-style-type: none"> ❖ Assignment on Efficiency calculation
Day-54	Introduction to testing of single phase Transformers OC, SC Test	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers	https://www.ee.iitb.ac.in/course/~emlab/assets/oc_sc.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	<p>Learning outcomes – Students should be able to:</p> <ul style="list-style-type: none"> ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.
Day-55	Sumpner's test, separation of losses	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect 3- phase transformers	https://circuitglobe.com/sumpnerns-test-or-back-to-back-test-on-transformer.html	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	<p>Learning outcomes – Students should be able to:</p> <ul style="list-style-type: none"> ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.
Day-56	parallel operation with equal voltage ratios	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers	https://www.electrical4u.com/parallel-operation-of-transformers/	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) ● PPT Presentation (35 Min) ● Poll activity (5 min) ● Summery (5min) 	<p>Learning outcomes – Students should be able to:</p> <ul style="list-style-type: none"> ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.

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Day-57	Auto Transformer and comparison with ordinary transformer	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers	Electrical Machines text book https://www.amiindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.
Day-58	Problems on OC and SC test of transformer	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers	Electrical Machines text book https://www.amiindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.
Day-59	Problems on OC and SC test of transformer	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers	Electrical Machines text book https://www.amiindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.
Day-60	Poly-phase connections - Y/Y, Y/Δ,	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers.	Electrical Machines text book https://www.amiindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> ▢ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-


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					phase transformation.
Day-61	Poly-phase connections $-\Delta/Y$, Δ/Δ and open Δ	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers	Electrical Machines text book https://www.amiindia.in/downloads/ebooks/electrical2-theraja.pdf	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.
Day-62	Scott connection	To Analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers	Electrical Machines Text Book https://circuitglobe.com/scott-t-transformer-connection.html	<ul style="list-style-type: none"> □ Revise Previous Class (5 Min) • PPT Presentation (35 Min) • Poll activity (5 min) • Summery (5min) 	Learning outcomes – Students should be able to: ❖ Parallel transformers, control voltages with tap changing methods and achieve three-phase to two-phase transformation.

Course Outcomes:

Upon successful completion of this course, student should be able to:

CO1:- To explain the construction, principle of operation and performance of DC machines.

CO2:- To describe the importance, effect and remedial methods of Armature Reaction, commutation and Losses in a DC Machine.

CO3:- To study the different methods of speed control and analyze the methods to test the performance of DC Machines to calculate the efficiency at any load.

CO4:- To explain the principle and operation of transformer, equivalent circuit models of transformers.

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CO5:- To analyze the different testing methods for single-phase transformers, Poly-phase Connections to connect three phase transformers.

LESSON PLAN - DAY WISE

Course Outcomes:

S. No	Outcomes	Lesson Objectives
1	Factual	❖ Explain the concepts of electromechanical energy conversion and their operation.
2	Conceptual	❖ Mitigate the ill-effects of armature reaction and improve commutation in dc machines. ❖ Understand the torque production mechanism and control the speed of dc motors.
3	Procedural	❖ Analyze the performance of single-phase transformers. ❖ Predetermine regulation, losses and efficiency of single-phase transformers.
4	Applied	❖ Parallel transformers, control voltages with tap changing methods and achieve three phases to two-phase transformation.

Schedule and Sequence: Day Plan

Text Books:

1. Electrical Machines by P.S. Bhimbra, Khanna Publishers
2. Electric Machinery by A.E.Fitzgerald, Charles Kingsley, Stephen D.Umans, TMH

Reference Books:

1. Electrical Machines by D. P.Kothari, I .J .Nagarth, Mc Graw Hill Publications, 4th edition
2. Electrical Machines by R.K.Rajput, Lakshmi publications, 5th edition.
3. Electrical Machinery by Abijith Chakrabarthy and Sudhipta Debnath, Mc Graw Hill education 2015
4. Electrical Machinery Fundamentals by Stephen J Chapman Mc Graw Hill education 2010
5. Electric Machines by Mulukutla S.Sarma&Mukesh k.Pathak, CENGAGE Learning.
6. Theory & Performance of Electrical Machines by J.B.Guptha. S.K.Kataria & Son

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• Time Table

DR.SR. CANDY DCUNHA -					Subject: ENGLISH				
DAY/HOUR	1	2	3	11:50	4	5	6	7	8
	9:00-10:00	10:00-10:55	10:55-11:50	12:45	12:45-1:40	1:40-2:30	2:30-3:20	3:20-4:10 EXAM	4:10-5:00 STUDY HOUR
MON				LUNCH					
TUE								CE	CE
WED		CE							
THU	CE					ECE-1			
FRI									
SAT	ECE-1						CE Revision		

Teacher/Instructor: Dr. Sr. Candy D’Cunha

Department of Science & Humanities

Associate Professor of English

Lesson Plan for a Day

Term/Semester/Year: Sem- I - Syllabus _

MICRO LESSON PLAN

Main Objectives

- To develop fluency, confidence and accuracy in speaking English. A better career prospects as well as improvement in social life.
- To enhance students’ knowledge of vocabulary in Engineering and vocabulary necessary for competitive exams like GRE.
- To support the intellectual development of students.
- Enabling all students to achieve the goals of human, social and career development as well as the community
- Learn basic LSRW abilities of English
- To attain fluency in speaking English
- Spend at least 10 minutes every day listening to a good video Lecture.
- To help students write creatively

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Detailed – Lesson 1

A Drawer Full of Happiness

Lesson Objectives:

1	Factual	Through this detailed Lesson 'A Drawer Full of Happiness' students will develop an appreciation for language and literature. They will be able to explore creative insights through the text.
2	Conceptual	To understand the key concepts of Grammar and Vocabulary especially Naming Words and use them appropriately.
3	Procedural	Students should be able learn basic sounds and learn to identify those with various lexical.
4	Applied	To explore creative and imaginative ideas in a form of a project or any piece of formal writing. To understand social or transactional dialogues spoken by native speakers of English

Detailed Text: A Drawer Full of Happiness

Contents/Activities – Lesson 1

1	Factual	Reading Prescribed Text Basic Vocabulary & GRE Vocabulary Grammar LSRW Skills
	Conceptual	Video Lectures related to the text Grammar- Naming words Language Game

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3	Procedural	LSRW activities Quiz Discussion Board
4	Applied	Listening and Speaking activities Reading and Writing activities

Schedule and Sequence:

Day Plan for Lesson 1 - **A Drawer Full of Happiness**

Infotech Lesson 1 – Total Classes 4 per week

Session/week/ Module -1 Total Classes -4	Topic	Objectives	Before Class - Videos, e- Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
Day-1	Introduction to Drawer Full of Happiness	To develop love for language and literature – through (Appreciating the text.)	Text book e.g. A Drawer Full of Happiness https://www.thehindu.com/opinion/open-page/a-drawer-full-of-happiness/article23343546.ece Videos  Introduction to A Drawer Full of Happ	Brain storming Elicitation- on the topic of the text - (20 Min) Text – PPT (20 Min) Language game Puzzle, Quiz or on the title of the text – Poll activity (10 min) Students Creative response (10 min)	Learning outcome – <ul style="list-style-type: none"> To understand and the basic introductory note of the text To understand and the journalistic & creative style To speak freely about the title of the text To learn basic

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					vocabulary Post on Discussion Forum
Day-2	Text	To present creative insights of the writer through the text	Picture of 1990s products – elicitation Share relevant pictures of the same https://www.google.com/search?xsrf=ALeKk00IwiMMCL5WpkLMJfAICtEoUZWwKg:159311298735&source=univ&tbm=isch&q=PICS+OF+1990+COSMETICS&sa Source: Internet	Revise previous class – (20 mins) Presenting Textual Ideas – (20 min) Language Game (10 min) Students Creative response (10 min)	Learning outcome <ul style="list-style-type: none"> • Students should be able to understand the basic idea of the text in the light of the title • They should learn basic grammar/ vocabulary dealt through language game • Answer questions related to the text
Day - 3	Grammar	To appreciate contextual Vocabulary and expressions through naming words.	Basic noun especially naming words / Video https://www.khanacademy.org/humanities/grammar/parts-of-speech-the-	PPT on Noun (20 min) Language game - Functional words (20 min) Solve problems - Yes or no	<ul style="list-style-type: none"> • Creative expression New insights through sentences (Present a topic)

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		 Naming Words - .pptx	noun/grammar-nouns/v/introduction-to-singular-and-plural-nouns-the-parts-of-speech-grammar-khan-academy Source: Internet	questions – sheets etc (10 min) Do exercise (10 min)	Post on Discussion Forum
Day - 4	LSRW - Activity	To make students listen, speak, read and write through activities	Video clips for listening – text related or other Highlight short paragraphs from the text to explain punctuation- PPT	Video clips for listening – text related or other Highlight short paragraphs from the text to explain punctuation- PPT Video clips-speaking activity Observe a picture / Image Exploring creative insight (20 min) Silent reading (20 min) Learners Response (20 min)	Creative works through PPTS, any formal assignment. Able to write at least a few sentences correctly Able to write a few Dialogues Summary of the text Assignment / test on LMS

Revision

Non -Detailed Text – Lesson 1

Deliverance by Premchand

Lesson Objectives:

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1	Factual	Through this non detailed Lesson ' Deliverance by Premchand ' students will develop extensive reading skill and comprehension for pleasure and profit.
2	Conceptual	To understand and identify the context, topic, and pieces of specific information through vocabulary and language.
3	Procedural	Through the text students will be able to understand the creative mind of the writer especially the element of translation.
4	Applied	To explore creative imagination in a form of a critical summary etc.

Non-Detailed Text: Deliverance by Premchand

Contents/Activities – Lesson 1

1	Factual	Presenting the text ' Deliverance by Premchand ' to discover the themes and motifs in the text.
2	Conceptual	Video Lectures related to the text to create pictorial effect upon the readers.
3	Procedural	To analysis various characters present in the text
4	Applied	To develop an appreciation for language and literature through creative expressions.

Schedule and Sequence: Non-Detailed Text: 'The Individual Society', Lesson 1

Day Plan for Lesson 1 - Deliverance by Premchand

Total Classes 4

Session/week/ Module -1	Topic	Objectives	Before Class - Videos, e-Books, Case studies	In-Class – Activities, Quiz	Post Class - Assignment,
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Total Classes 4				(Micro teaching)	Discussion Forum
Day-1	Introduction To the writer -Premchand	To explore the fatal effects of caste discrimination in Indian society and reflect upon the prejudiced norms highlighted in the text.	http://gclambathach.in/lms/Sadgati-Deliverance-1.pd - Critical appreciation of the text Source: Internet	Discussion 30 min 20 mins Elicitation 10 min Activity	A Few Insights about the writer Post on Discussion Forum
Day-2	Text	To present the summary of the text	https://litpile.wordpress.com/2017/07/31/the-deliverance-a-story-by-munshi-premchand/ - Text Source: Internet	40 min PPT 20 min Discussion/ Activity	Insights about the text Post on Discussion Forum
Day-3	Introduction to the characters of the text	To explore various qualities in the characters of the text	Handouts on characters: Dukhi Jhuria Pandit etc	30 min explanation on each character 30 min Discussion in groups	Create PPT about the characters Post on Discussion Forum
Day-4	Critical Appreciation / Themes/ Symbols/ rituals/ etc.	To instil in students, love for language through creative expression	http://gclambathach.in/lms/Sadgati-Deliverance-1.pd Re-reading the Critical Appreciation of the text Source: Internet	50 min Writing task- Character, Summary etc. 10 min	Assignment on the given theme Post on Discussion Forum

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Detailed – Lesson 2

Nehru's letter to his daughter Indira on her birthday

Lesson Objectives:


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1	Factual	To employ suitable strategies for skimming and scanning to get the general idea of a text and locate specific information
2	Conceptual	Project the text Nehru's letter to his daughter Indira on her birthday.
3	Procedural	To speak about the various aspects / advice given by Nehru to his daughter.
4	Applied	To discover creative insights to write a 'Personal Letter'. Learners should be able to participate in activities such as role plays, discussions and structured talks/oral presentations in connection to Greetings and leave taking.

Detailed Text: Nehru's letter to his daughter Indira on her birthday

Contents/Activities – Lesson 2

1	Factual	Presenting the text in order to locate the underline meaning.
2	Conceptual	To understand the meaning of the given vocabulary and the related context in the letter.
3	Procedural	To pinpoint the message-oriented elements in the text.
4	Applied	To exhibit creative insights through letter writing - email To express freely the contextual dialogues.

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Schedule and Sequence: Detailed Text: Infotech - Lesson 2

Day Plan for Lesson 2 - **Nehru's letter to his daughter Indira on her birthday**

Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e- Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
Day-1	Introduction to the Text	To present Nehru's thoughts to his daughter Indira on his daughter's 13 th Birthday.	Text – https://www.scoopwhoop.com/inothernews/nehru-letter-to-indira-gandhi/ Source: Internet	Reading the text aloud 30 min Information about the text 20 mins Elicitation / Brainstorming 10 min Activity – Envelope activity	Post on Discussion Forum To create an email and with an official letter
Day-2	Explanation about the Text	To highlight various instances of the freedom movement.	Motivational Video on Freedom Movement https://www.youtube.com/watch=0PiOD8Tea-8 Source: Internet	Discussion on Freedom Movement 20 min Jot down the insights 20 mins Elicitation / Brainstorming 20 min Language Game on Vocabulary	Write a personal letter giving advice.
Day-3	Grammar	To understand appreciate the contextual vocabulary in the text	Use of articles and zero article; prepositions Videos on: Articles  new preposition .pptx  Articles.pptx	30 min explanation on each character	Create a few sentences and write them in your own words.



Day-4	LSRW Skills	To make students listen, speak, read and write through task related activities	Quiz related actives will be assigned to the student before class which will cover various components of Grammar.	15 min Listening activity 15 mins Speaking Activity - drill 15 min Reading Activity 15 min Writing Activity	<ul style="list-style-type: none"> • Able to write the summary of the text. • Dialogues • Personal letter.
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Revision

Non -Detailed – Lesson 2
Bosom Friend by Hira Bansode
Lesson Objectives:

1	Factual	Presenting the poem 'Bosom Friend by Hira Bansode' to explore the themes in the poem
2	Conceptual	To understand the existing caste issues in India.
3	Procedural	To analyze Indianization in the text.
4	Applied	To develop an appreciation for language and literature through creative expressions and insights.

Non-Detailed Text

Contents/Activities – Lesson 2

1	Factual	Reciting the Poem to understand the implied meaning.
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2	Conceptual	Understanding the themes oppression, cast-discrimination and marginalization of Dalits in India.
3	Procedural	To appreciate language devices in the text.
4	Applied	To develop an appreciation for language and literature through creative expressions

Schedule and Sequence: Non-Detailed Text: The Individual Society', Lesson 2

Day Plan for Lesson 2 - **Bosom Friend** by Hira Bansode

Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e- Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
Day-1	Introduction to Non-Detailed Text	To explore various issues related to cast in the poem.	Text – https://www.arsdcollege.ac.in/wp-content/uploads/2020/05/AECC-Practice-Set-3.pdf Source: Internet	Reading the poem aloud 10 min Explanation about the poem 30 mins Elicitation / Brainstorming 10 min Pair Activity	Post on Discussion Forum
Day-2	Explanation about the Text	To present the theme and summary of the poem	Video of the summary https://m.trending.network/view/qm0ITZ3ZG2s.htm Source: Internet	20 min Jot down the insights from the poem 20 mins Elicitation / Brainstorming 20 min Language Game on Vocabulary/ Indian vocabulary	Discussion on Dalit literature


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Day-3	Characters in the poem	To show the real meaning of 'Bosom Friend'	Debate and discussion related questions to be given to the students.	30 min explanation on each character 30 mins Response from the learners	Writing a few thoughts on how to overcome social evils
Day-4	Critical implications of the text	To present overall idea in the text	Reading Material related to the poem	45 min Writing a summary and critical appreciation 15 mins Doubts clarification	Post on Discussion Forum Any other similar text with same theme – Assignment.

Revision

Detailed – Lesson 3

Stephen Hawking- Positivity 'Benchmark'

Lesson Objectives:

1	Factual	Through this detailed Lesson 'Stephen Hawking- Positivity 'Benchmark' students will develop an appreciation for language. They will be able to understand take Stephen Hawking's life as a role model.
2	Conceptual	To understand the key concepts of Grammar and Vocabulary especially Verbs - tenses; subject-verb agreement; direct and indirect speech, reporting verbs for upgrading grammatical skills.
3	Procedural	Students should be able learn basic sounds and learn to identify those with stress linguistic devices
4	Applied	To explore creative and imaginative ideas in a form of a Letter writing-types, E-mail, Writing CV's. To understand social or transactional dialogues spoken by native speakers of English in situations like 'Complaining and

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		Apologizing.’
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Detailed Text

Contents/Activities – Lesson 3

1	Factual	Reading Prescribed Text to understand Life and works of Stephen Hawking
2	Conceptual	Video Lectures related to the text Grammar- Language Game & Vocabulary.
3	Procedural	LSRW activities Quiz Discussion Board
4	Applied	Listening and Speaking activities Reading and Writing activities

Schedule and Sequence: Detailed Text: Infotech - Lesson 3




Day Plan for Lesson 3 - **Stephen Hawking- Positivity ‘Benchmark’**

Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e-Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
Day-1	Introduction to Non-Detailed Text	To present the story of will power and strength before the readers.	Text – https://www.forbes.com/sites/anna-powers/2018/03/14/the-theory-of-everything-remembering-stephen-hawkings-greatest-contribution/#1ea165e023ed Source: Internet	Explaining the text 40 min Elicitation / Brainstorming 20 min Activity – Envelope activity	Post on Discussion Forum
Day-2		To present writers notions	PPT presentation of the text	20 min Jot down the insights	Take away tips from the text


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	Explanation about the Text	through the text.	 Stephen Hawkings .pptx	20 mins Elicitation / Brainstorming 20 min Writing response from the learners	
Day-3	Grammar	To appreciate Vocabulary and expressions of Language	Presenting grammar through PPT  preposition .pptx  Articles.pptx	30 min Practice through quiz 30 min Worksheets	Framing a few sentence using articles and prepositions. Dialogues related activity
Day-4	LSRW Skills	To give students an exposure of basic skills	Listening: Listening, Speaking, Reading, writing for global comprehension and grasping the implied meaning. (Activity) before the class	30 min Sharing experience about the activity Reading once again in the light of explanation	Writing task in a form of an assignment.
Revision					
Non -Detailed – Lesson 3 Shakespeare’s Sister by Virginia Woolf Lesson Objectives:					
1	Factual	Presenting the text ‘Shakespeare’s Sister by Virginia Woolf ’to identify the feministic issues.			
2	Conceptual	To understand the concept of ‘Gender Discrimination, ‘Implication of Women Education’			

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3	Procedural	To analyse gender issues conditioning through ages especially during Elizabethan's age.
4	Applied	To develop an appreciation for feministic approach theory.

Non-Detailed Text

Contents/Activities – Lesson 3

1	Factual	Reading the Text Identifying the Language expressions
2	Conceptual	Understanding the themes – Feminism, Women liberation, Women Empowerment.
3	Procedural	To analysis various symbols and languages devices present in the text.
4	Applied	To develop an appreciation for language and literature through creative expressions and insights.

Schedule and Sequence: Non-Detailed Text: The Individual Society', Lesson 3

Day Plan for Lesson 3 - **Shakespeare's Sister by Virginia Woolf**

Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e-Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
Day-1	Introduction to Non-Detailed Text	To present feministic issues to the readers.	Text – https://www.d.umn.edu/~tbacig/cst1010/chs/woolfe.html Source: Internet	Reading the text aloud 30 min Information about the text 20 mins Elicitation / Brainstorming	Post on Discussion Forum

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				10 min Activity – Qualities of Women	
Day-2	Explanation about the Text	Summary of the Text	PPT / Video ON Shakespeare’s Sister https://www.youtube.com/watch?v=RXJ_pnMitPM Source: Internet	20 min Note down the insights 20 mins Elicitation / Brainstorming 20 min Language Game on Vocabulary	Post on Discussion Forum
Day-3	Characters in the text	To present the gender issues conditioning through ages especially during Elizabethan’s age.	Videos: on Judith Shakespeare https://www.youtube.com/watch?v=pzB02Vw47gk Source: Internet	30 min explanation on each character 30 min Writing about the characters	Post on Discussion Forum
Day-4	Applied	Critical Appreciation of Themes and Ideas	Reading the text in the light if critical appreciation.	30 min Discussion 30 min Task	Post on Discussion Forum Assignment on the given theme
Revision					
<p>Detailed – Lesson 4 Liking a Tree, Unbowed: Wangari Maathai-biography Lesson Objectives:</p>					
1	Factual	The learners will develop an appreciation for language and the significance letter writing. They will be able to explore the qualities of a leader and learn to acquire them.			

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2	Conceptual	The learners will understand Lexical and Cloze Encounters Quantifying expressions - adjectives and adverbs; comparing and contrasting; degrees of comparison; use of antonyms
3	Procedural	Students should be able learn basic sounds and learn to identify those with various Contrastive Stress patterns
4	Applied	To explore environment related insights. To explore Functional English like: Permissions, Requesting, Inviting.

Non-Detailed Text

Contents/Activities – Lesson 4

1	Factual	Reading Prescribed Text Basic Vocabulary & GRE Vocabulary, Grammar LSRW Skills
2	Conceptual	Video Lectures related to the text Grammar- Language Games
3	Procedural	LSRW activities Quiz Discussion Board
4	Applied	Listening and Speaking activities Reading and Writing activities

Schedule and Sequence: Detailed Text: Infotech - Lesson 4

Day Plan for Lesson 4 - **Liking a Tree, Unbowed: Wangari Maathai-biography**




Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e- Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
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Day-1	Introduction to Non-Detailed Text	To present Wangari Maathai's biography to the learners.	Text –  Wangari Mattai - .pptx	Reading the text aloud 30 min Information about the text 20 mins Elicitation / 10 min Questions	Post on Discussion Forum
Day-2	Explanation about the Text	To present Green belt movement, Chipko movement etc	Video of Green belt Movement https://www.youtube.com/watch?v=GRkhi2SPwms Source: Internet	20 min Practice 20 mins Repleted quiz 20 min Worksheets	Post on Discussion Forum
Day-3	Grammar	To discuss Lexical and Cloze Encounters Quantifying expressions - adjectives and adverbs; comparing and contrasting; degrees of comparison; etc	Presenting degrees of comparison and Adverbs to the learners.  Degrees of Comparison - .pptx  Adverbs .pptx	30 min Degrees of Comparison 30 min Adverbs	Post on Discussion Forum Grammar Assignments
Day-4	Applied	To make students listen, speak, read and write through activities	Activity Video related to the text		Post on Discussion Forum Topics on Environment
Revision					
Non-Detailed – Lesson 4 Telephone Conversation-Wole Soyinka Lesson Objectives:					

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1	Factual	Presenting the Poem ' Telephone Conversation-Wole Soyinka ' to discover the themes and motifs in the Poem
2	Conceptual	To understand the concept of ' Racial Discrimination and the plight of Blacks in America '
3	Procedural	To analyse the consequences of Racism and resistance of blacks towards it.
4	Applied	To develop an appreciation for language and literature through creative expressions.

Non-Detailed Text

Contents/Activities – Lesson 4


1	Factual	Reciting the Poem Identifying the Language expressions
2	Conceptual	Understanding the themes of Oppression & Racial Discrimination
3	Procedural	To analysis various symbols, figures of speech present in the Poem
4	Applied	To develop an appreciation for language and literature through creative expressions.

Schedule and Sequence: **Non-Detailed Text: The Individual Society', Lesson 3**

Day Plan for Lesson 4 - **Telephone Conversation-Wole Soyinka**

Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e- Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
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Day-1	Introduction to Non-Detailed Text	To present the poem to the readers in the context of the poetess works.	Text – https://www.k-state.edu/english/westmank/spring_00/SOYINKA.html Source: Internet	Reading the poetry to the students 30 min Summary of the poem 20 mins Elicitation / Brainstorming 10 min Activity –	Post on Discussion Forum
Day-2	Explanation about the poem	Present Gender related issues	Videos on the summary of the Poem https://www.youtube.com/watch?v=liU1-XNMSaU Source: Internet	20 min Jot down the insights from the video 20 mins Brainstorming 20 min Language Game on Vocabulary from the poem	Post on Discussion Forum Appreciating the poem
Day-3	Grammar	To explore various discriminative issues	PPT on various social related issues  Social Issues .pptx	30 min Presentation 30 min Discussion	Post on Discussion Forum
Day-4	Applied	Critical Appreciation/ Themes/ Symbols/	Presenting critical material & Videos	50 min Writing Summary 10 Mins Questions	Post on Discussion Forum

Revision

Detailed – Lesson 5 Stay Hungry-Stay foolish

Lesson Objectives:

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1	Factual	Through this detailed Lesson ' Stay Hungry-Stay foolish ' students will be able to understand the inspirational life of Steve Jobs
2	Conceptual	To understand the key concepts of Grammar and Vocabulary especially Editing short texts – identifying and correcting common errors in grammar and usage (tenses, subject verb agreement)
3	Procedural	Students should be able to learn basic sounds and learn to identify those in their speech.
4	Applied	To explore creative and imaginative ideas in a form of a project or any piece of formal writing to enhance scope for creative ideas.

Detailed Text

Contents/Activities – Lesson 5

1	Factual	Reading Prescribed Text Basic Vocabulary & GRE Vocabulary
2	Conceptual	Video Lectures related to the text Grammar- Language Game
3	Procedural	LSRW activities Quiz Discussion Board
4	Applied	Listening and Speaking activities Reading and Writing activities

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Schedule and Sequence: Detailed Text: Infotech - Lesson 5

Day Plan for Lesson 5 - **Stay Hungry-Stay foolish**

Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e-Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
Day-1	Introduction to Non-Detailed Text	To develop passion for language and literature – through (Appreciating the text.)	Text – https://news.stanford.edu/2005/06/14/jobs-061505/ Source: Internet	Reading the text aloud 30 min Information about the text 20 mins Elicitation / Brainstorming 10 min Activity – Envelope activity	Post on Discussion Forum
Day-2	Explanation about the Text		 Stay Hungry Stay Foolish - .pptx	20 min PPT 20 mins Discussion 20 min Questions from the text	Post on Discussion Forum
Day-3	Grammar	To explain subject and verb agreement.	 Tenses .pptx Videos on Subject and verb agreement	30 min PPT 30 min Task	Post on Discussion Forum
Day-4	Applied	To present creative insights of the writer through the text	Provide critical material related to the text. Steve Jobs	Revise previous class (20 min) Presenting Textual Ideas (20 min) (20 min) Task related activity	Post on Discussion Forum Assignment
Revision					

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Non -Detailed – Lesson 5 Still I Rise by Maya Angelou

Lesson Objectives:

1	Factual	Presenting the Poem 'Telephone Conversation-Wole Soyinka' to discover the themes and motifs in the Poem
2	Conceptual	To understand the concept of ' Racial Discrimination.
3	Procedural	To analyse the consequences of Racism and resistance of blacks towards it.
4	Applied	To develop an appreciation for language and literature through creative expressions

Non-Detailed Text

Contents/Activities – Lesson 5

1	Factual	Reciting the Poem Identifying the Language expressions
2	Conceptual	Understanding the themes of Oppression & Racial Discrimination,
3	Procedural	To analysis various implied meaning of the poem
4	Applied	To develop an appreciation for language and literature through creative expressions.

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Schedule and Sequence: Non-Detailed Text: The Individual Society', Lesson 5
Day Plan for Lesson 5 - Still I Rise by Maya Angelou

Total Classes 4

Session/week/ Module -1 Total Classes - 4	Topic	Objectives	Before Class - Videos, e- Books, Case studies	In-Class – Activities, Quiz (Micro teaching)	Post Class - Assignment, Discussion Forum
Day-1	Introduction to Non-Detailed Text	To present the intention of the poet to the readers	Text – Critical note https://www.poetryfoundation.org/poems/46446/still-i-rise Source: Internet	Reading the poem aloud 30 min Summary about the poem 20 mins Elicitation / 10 min Discussion	Post on Discussion Forum
Day-2	Explanation about the Text	To explore themes in the poem	Videos on the summary of the Poem https://kottke.org/16/11/still-i-rise-by-maya-angelou Source: Internet	20 min Jot down the insights 20 mins Elicitation / Brainstorming 20 min Language Game on Vocabulary	Post on Discussion Forum
Day-3	Critical note of the poem	To explore various qualities represented by the poetess about racism	To provide various critical texts to the student about the same theme.	40 min Discussion 20 min Summary	Post on Discussion Forum
Day-4	Applied	To write a few expressions of the poet	To present various ideas of Maya Angelou.	40 min Write summary 20 min Questions	Post on Discussion Forum Assignment
Revision					

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Teacher/Instructor: Dr. Sr. Candy D'Cunha

Department of Science & Humanities

Associate Professor of English

Lesson Plan for a Day

Term/Semester/Year: Sem- I - Syllabus :

MICRO LESSON PLAN

(ACCORDING TO BLOOMS DIGITAL TAXONOMY)

Programme	B Tech – R 2019-20
Semester	I Year - I Semester
Subject Title	ENGLISH
Subject Code	(HS1101)
Class Hours	5 hours per week
Total Hours	60
Credits	3
Max Marks	100
Unit & Title	Unit 1 - A Drawer full of Happiness – Introduction to the text
Teaching and Learning Tools	Blended Learning, Google classrooms, Smart Board, Pedagogy, E-material, Video clips for Post Task

Detailed – Lesson 1 A Drawer Full of Happiness Lesson Objectives:	
Factual	Through this detailed Lesson 'A Drawer Full of Happiness' students will develop an appreciation for language and literature. They will be able to explore creative insights through the text.
Conceptual	To understand the key concepts of Grammar and Vocabulary especially Naming Words and use them appropriately.
Procedural	Students should be able learn basic sounds and learn to identify those with various lexical.
Applied	To explore creative and imaginative ideas in a form of a project or any piece of formal writing. To understand social or transactional dialogues spoken by native speakers of English

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Prerequisite Knowledge: Imaginative ideas on creative writing

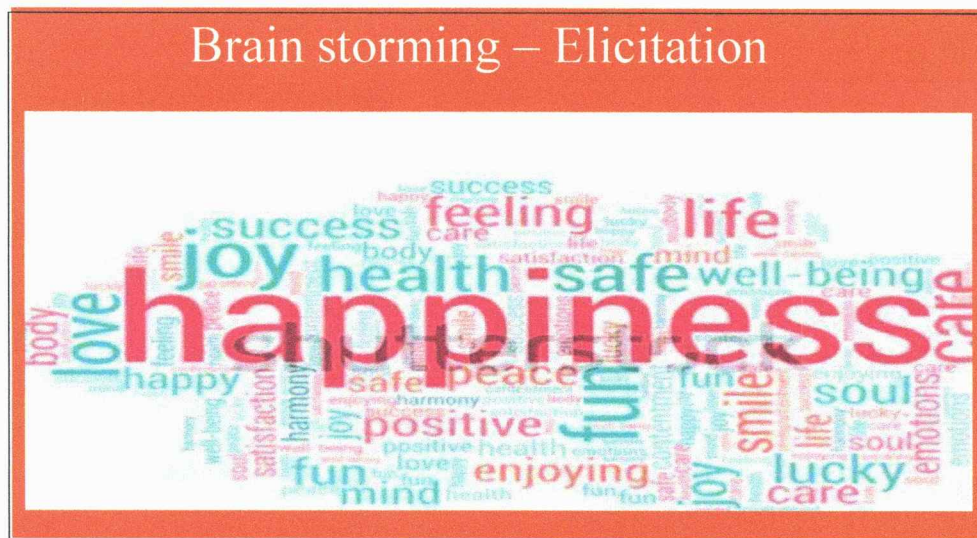
Micro Lesson Plan: Day -1. INTRODUCTION

1. Pre-task Activity- Introducing the Text

Text:

<https://www.thehindu.com/opinion/open-page/a-drawer-full-of-happiness/article23343546.ece>

2. In-class Activity: Introduction to “Drawer full of Happiness”



Language Game: Quiz poll questions based on the image



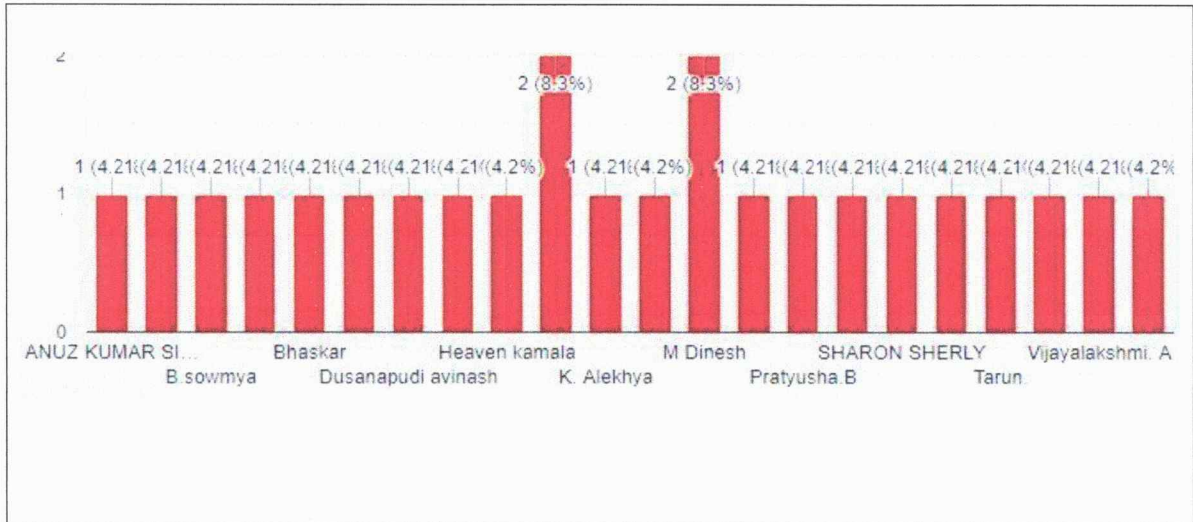
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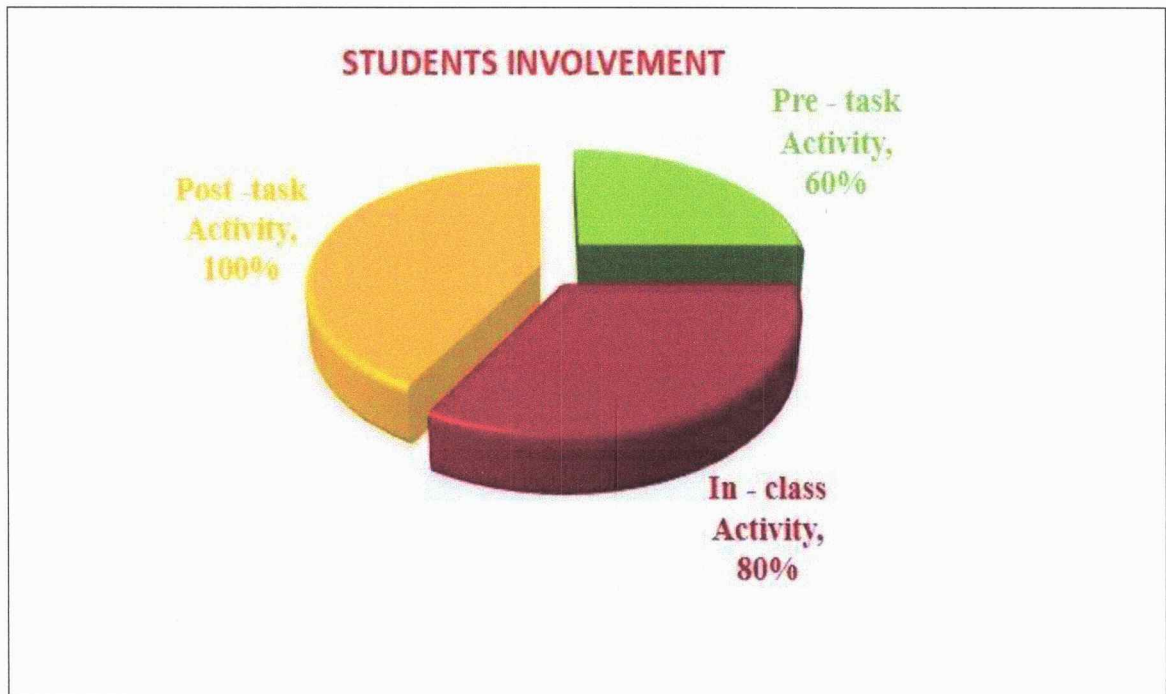


3. Post – task Activity:

Graphical Representation of the creative response from the students of Civil – (19-20) batch - Google classroom.

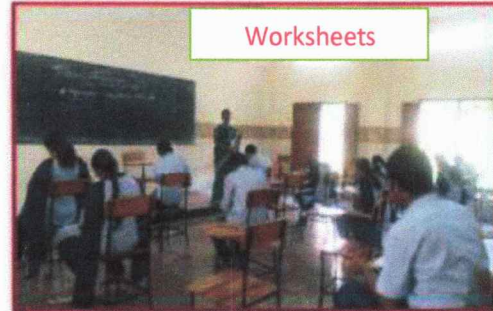
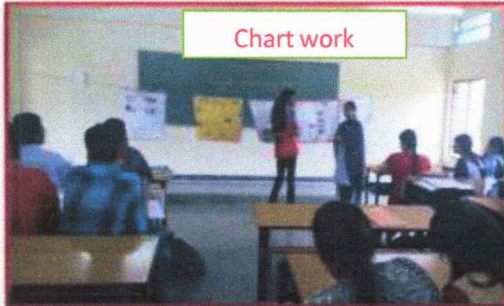


4. Students Involvement



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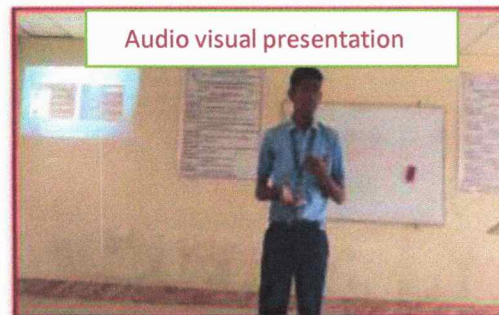
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Audio Visual aids and PPTs

Audio Visual aids are effectively used based on particular needs. Audio aids improve their listening skills and Visuals widens their imagination and perception.

Power Point Templates preparations on complex topics by faculty and students open new avenues for creativity and gain additional latest knowledge from OER. Students choose topics of their choice and present them to the class. This in fact increases the cognitive learning capabilities of learners.



Objects, Models and Realia

Objects, Models and Realia are human inventions used as a teaching aid to effectively and symbolically present the concepts to the learners.

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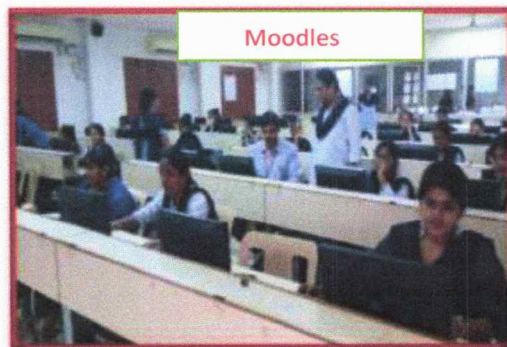
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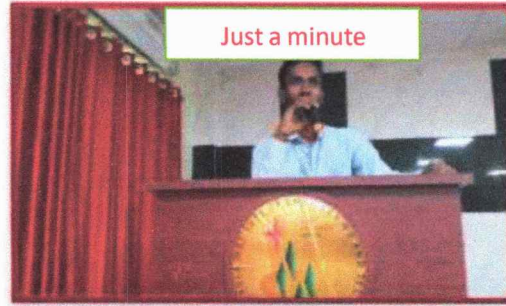


MOOCs /Swayam - NPTEL/ TESOL

Moodle Learning Management System (LMS), **NPTEL** programs and **TESOL** online videos for Language enhancing are effectively used by the faculty to stimulate the learning capability of students.



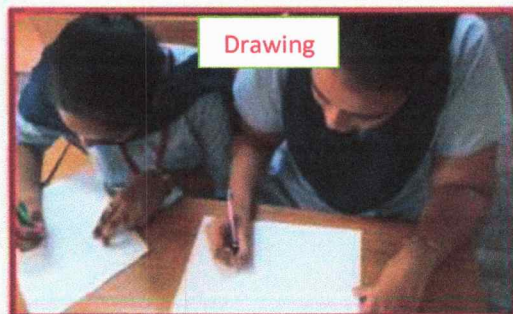
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Pair work and peer work

Pair work is an important interactive activity. It encourages rapport and collaborative learning and contributes towards building up effective team work. It also adds variety to the lesson.

Peer work is often the best way for large classes of heterogeneous group. It is done by bunching 4-5 students and making them sit close to one another. Some of the task actions for the group work involve group dialogues, drawing or labeling pictures, writing a story, making lists and mind maps



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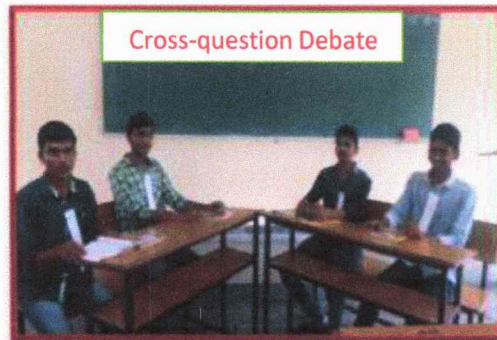


Debate

Debate enhances critical thinking and public speaking skills. It focuses on drawing out thoughts and ideas on various topics and arriving at the desired outcome that is pre-planned by the teacher.



Debate



Cross-question Debate

Field trips or Educational Tours

Fieldtrips or Educational Tours are well organized as part of experiential learning which improves observation and inquiry-based learning to have a real-world experience.



Village exposure



Industry visit

Manuals, Handouts, Worksheets & Chart work

Manuals, Handouts and Worksheets are all great sources of information for the learner. Based on the graded level ability of the learner, worksheets are distributed. At times, this is done also through vertical grouping.

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