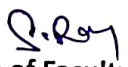
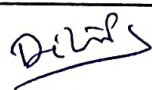


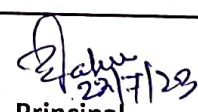
# SYNERGY POLYTECHNIC, BBSR

## The Lesson Plan

Discipline: Electrical Engg	Semester: 3rd	Name of the Teaching Faculty: Soumik Roy
Subject: Element of Mechanical Engg	No of Days/per week class allotted: 4	Semester from Date: 01/08/2023 to Date: 31/08/2023 No of Weeks: 5
Week	Class Day	Theory/Practical Topics
1st	1st	State Unit of Heat and work
	2nd	Explanation of 1st law of thermodynamics
	3rd	State Laws of perfect gases
	4th	Understand specific heat of gases (Cv & Cp)
	5th	
2nd	1st	Explain total heat of wet, dry and super heated steam
	2nd	Study different types of Boilers
	3rd	Describe Cochran
	4th	Describe Babcock Wilcox boiler
	5th	
3rd	1st	Understand the principle of Simple steam engine
	2nd	Drawing of Indicator diagram
	3rd	Calculation of Mean effective pressure
	4th	Calculation of IHP and BHP
	5th	
4th	1st	Calculation of mechanical efficiency
	2nd	Solve Simple problem on the above topic
	3rd	Study different types of steam turbine
	4th	Study the diagram different types of steam turbine
	5th	
5th	1st	Study Impulse Turbine
	2nd	Study Reaction Turbine
	3rd	Differentiate between Impulse and reaction Turbine
	4th	Diagram of Impulse and reaction Turbine
	5th	

  
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HOD

  
Principal

## SYNERGY POLYTECHNIC, BBSR

### The Lesson Plan

Discipline: Electrical Engg	Semester: 3rd	Name of the Teaching Faculty: Soumikh Roy
Subject: Element of Mechanical Engg	No of Days/per week class allotted: 4	Semester from Date: 01/09/2023 to Date: 30/09/2023 No of Weeks: 5
Week	Class Day	Theory/Practical Topics
1st	1st	Explain the Condenser in thermal powerplant
	2nd	Explain the function of condenser
	3rd	
	4th	
	5th	
2nd	1st	Explain the types of condensers
	2nd	Explain the working principal of condensers
	3rd	Explain working of two stroke petrol engine
	4th	Explain working of two stroke diesel engine
	5th	
3rd	1st	Explain working of four stroke petrol engine
	2nd	Explain working of four stroke diesel engine
	3rd	Differentiate between 2 stroke & 4 stroke engine
	4th	Differentiate between Petrol & 4 Diesel engine
	5th	
4th	1st	Explain the hydrostatic of fluid
	2nd	Study different types of Fluids
	3rd	Determine pressure at a point of fluid
	4th	Study pressure measuring Instruments
	5th	
5th	1st	Different types of pressure measuring Instruments
	2nd	Working principal of pressure measuring Instruments
	3rd	Study Bernoulli's principal
	4th	Derivation of Bernoulli's principal
	5th	

Signature of Faculty

*D. L. S.*  
HOD

*Soumikh Roy*  
22/7/23  
Principal

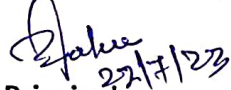
# SYNERGY POLYTECHNIC, BBSR

## 10 Lesson Plan

Discipline: Electrical Engg	Semester: 3rd	Name of the Teaching Faculty: Soumikh Roy
Subject: Element of Mechanical Engg	No of Days/per week class allotted: 4	Semester from Date: 01/10/2023 to Date: 31/10/2023 No of Weeks: 4
Week	Class Day	Theory/Practical Topics
1st	1st	Study Use steam table for solution of simple problem
	2nd	Explain total heat of wet steam
	3rd	Explain total heat of Dry steam
	4th	Explain total heat of super heated steam
	5th	
2nd	1st	Study Hydrokinetics
	2nd	Study the continuity of flow
	3rd	Derivation of continuity of flow equation
	4th	Numericals on continuity of flow equation
	5th	
3rd	1st	Explain energy of flowing liquid
	2nd	Derivation of energy of flowing liquid
	3rd	Study Bernoulli's theorem
	4th	Numericals on Bernoulli's theorem
	5th	
4th	1st	Study types of flow presure measurement devices
	2nd	Solve numericals on Hydro dynamics
	3rd	College Holiday
	4th	College Holiday
	5th	
5th	1st	Study the types of Steam engine
	2nd	Strudy the physical construction of steam engine
	3rd	
	4th	
	5th	

  
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HOD

  
Principal  
22/11/23

# SYNERGY POLYTECHNIC, BBSR

## The Lesson Plan

Discipline: Electrical Engg	Semester: 3rd	Name of the Teaching Faculty: Soumik Roy
Subject: Element of Mechanical Engg	No of Days/per week class allotted: 4	Semester from Date: 01/11/2023 to Date: 30/11/2023 No of Weeks: 5
Week	Class Day	Theory/Practical Topics
1st	1st	Study the principle of Simple steam engine
	2nd	Draw Indicator diagram
	3rd	Study Mean effective pressure
	4th	
	5th	
2nd	1st	Study IHP and BHP
	2nd	Study mechanical efficiency
	3rd	Numerical on Steam engine
	4th	Introduction of hydraulic devices
	5th	
3rd	1st	Study Intensifier with diagram
	2nd	Study Hydraulic lift with diagram
	3rd	Study Accumulator with diagram
	4th	Study Hydraulic ram with diagram
	5th	
4th	1st	Revision Thermodynamics
	2nd	Revision of types of Boilers
	3rd	Revision of Steam Engines
	4th	Revision of Steam Turbines
	5th	
5th	1st	Revision of condensers
	2nd	Revision of IC Engines
	3rd	Revision of Hydrostatics
	4th	Revision of Hydrodynamics
	5th	

Signature of Faculty

*D. S. Roy*  
HOD

*Soumik Roy*  
Principal 30/11/23