



TRADE MARK

LIONTM

Teacher's Lesson Note

2023 - 24

Design of Machine Element
Branch- Mech I & II
Sem- 5th
Name - Denesh ku. Sethy

TEA (HEADS)

1	2	3	4	5	6	7	8
Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
2/8/23	1st	1st	Design of machine element	Introduction		Introduction of machine element and its classification	
12/8/23	2nd	2nd				Different mechanical design material used to design mechanical parts of machine	
17/8/23	3rd	3rd				Define working of shaft, pulley and V-belt	
23/8/23	4th	4th				Define ultimate stress, yield stress and factor of safety	

LESSON NOTE

9	10	11	12	13	14
Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
	Define machine design and its classification		23/8/23	23/8/23	
	General consideration in machine design		23/8/23	23/8/23	
	General procedure in machine design		23/8/23	23/8/23	
	Define working of pulley and factor of safety		23/8/23	23/8/23	

TEACHING

LESSON NOTE

Class	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
29/8/22	3rd	1st	4	5	6	Write about stress and strain, draw the picture view for MS and CI	8
4/9/22	3rd	1st	4	5	6	Mode of failure, elastic yielding, normal and shear stress	8
12/9/22	3rd	1st	4	5	6	the working of governor of governor element, the delivery element, machine	8
22/9/22	4th	1st	4	5	6	Describe about stress procedure	8

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	Diagram of stress and strain, an curve diagram for MS and CI		21/9/22	21/9/22	
	Explanation for mechanical properties		21/9/22	21/9/22	
	Explanation for properties of material		21/9/22	21/9/22	

TEACHERS

LESSON NOTE

1	2	3	4	5	6	7	8
Date	Period	Class	Subject	Type (Concept)	Sub Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
25/9/23	3rd	3rd	3rd			Class - Self	
26/9/23	3rd	3rd	3rd			Joining and then classification	
26/9/23	3rd	3rd	3rd			Make type of joining	
30/9/23	4th	4th	4th			Use of advantage of joining and then joining	

9	10	11	12	13	14
Evaluative Questions	Expected learning outcomes	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Page No.
	Define stress, strain and compressive stress and Young's modulus of elasticity etc.		<u>Q. A. B.</u> 25/09/23	<u>S</u> 25/9/23	
	Problem of stress, strain		<u>Q. A. B.</u> 25/09/23	<u>S</u> 26/9/23	
	Revision on chapter - 1		<u>Q. A. B.</u> 25/09/23	<u>S</u> 29/9/23	
	poisson's ratio and extension - Question practice		<u>Q. A. B.</u> 25/09/23	<u>S</u> 30/9/23	

TEACHERS

Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be Used
3/10/23	4th week	1st				Design of joint welding for eccentric load	
5/10/23		2nd				Half type of riveted joint and type of rivets	
6/10/23		3rd				Class test	
11/10/23		4th				Describe failure of riveted joint	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	Introduction of riveted joint and its classification		<u>Dr. M. S. S.</u> 3/10/23	<u>S.</u> 3/10/23	
	Joint and their classification and type of welding joint		<u>Dr. M. S. S.</u> 5/10/23	<u>S.</u> 5/10/23	
	Revision class		<u>Dr. M. S. S.</u> 6/10/23	<u>S.</u> 6/10/23	
	State advantage of welding joint over other joint		<u>Dr. M. S. S.</u> 11/10/23	<u>S.</u> 11/10/23	

TEACHERS

LESSON NOTE

Date	Period	Class	Subject	Topic (Concept)	Sub-Topic	Learning Activities to be taken up	TLM to be used
7/11/23	2	3	4	5	6	7	8
7/11/23	2	3	4	5	6	7	8
9/11/23	2	3	4	5	6	7	8
10/11/23	2	3	4	5	6	7	8
22/11/23	2	3	4	5	6	7	8

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	class test on chapter-1		07/11/23	07/11/23	
	Importance terms used in reventer joint and reventer joint		08/11/23	08/11/23	
	Revision class		16/11/23	16/11/23	
	Strength and efficiency of reventer joint		22/11/23	22/11/23	

TEACHERS

1	2	3	4	5	6	7	8
Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
28/11/23	4th	4th	DME			Class text	
29/11/23	4th	4th	DME			Revision of previous class	
28/11/23	4th	4th	DME			Revision of previous class	
29/11/23	4th	4th	DME			Revision of previous class	

LESSON NOTE

9	10	11	12	13	14
Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
	problem on example 9, and other example		28/11/23	28/11/23	
	Assign problem given to student		28/11/23	28/11/23	
	Design of boiler and circumferential lap joint		28/11/23	28/11/23	
	Example problem solved over board		28/11/23	28/11/23	

TEACHING

1	2	3	4	5	6	7	8
Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
8/12/23	3 rd 4 th 5 th	4 th	Math	Area	Area	Determine factors of 36 and write ways	
8/12/23		4 th	Math	Area	Area	Revision told and hall on ready to transmit a given power	
11/12/23		4 th	Math	Area	Area	Problem solved by short	
12/12/23		4 th	Math	Area	Area	Object and of the problem considering failure of power between connecting	

LESSON NOTE

9	10	11	12	13	14
Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
	Special class of fill and 6 point expande		8/12/23	8/12/23	
	reconfirmded points		8/12/23	8/12/23	
	Exercise Question reduction		11/12/23	11/12/23	
	Review class on chapter -2		12/12/23	12/12/23	

TEACHING

LESSON NOTE

Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
14/12/23	7th	1st				class test	
15/12/23	7th	1st				Design and drawing by using emp. beam for given shaft of shaft	
16/12/23	7th	1st				How to specification parallel	
17/12/23	7th	1st				Gib-head key Taper key or pin	

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	shaft design and shaft design type of shaft				
	Function of key type material of key failure of key				
	How to specification parallel				
	Gib-head key Taper key or pin				

LESSON NOTES

Evaluative Questions		Expected learning outcome		Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9		10		11	12	13	14
		Write head key on paper DS of a pen specification					
		Numerical Problem on Profit and Loss					
		Define and explain the difference between a function and a mapping					
		Handwritten notes on the topic of the project					

TECHNICALS

Date	Period	Class	Subject	Topic (Concept)	Sub-Topic (Sub-Concept)	Learning Activities to be taken up	TLM to be used
1	2	3	4	5	6	7	8
	1st	1st		Design of Coupling		Design of shaft Coupling	
	2nd	2nd				Requirement of shaft Coupling	
	3rd	3rd				Type of Coupling	
	4th	4th				class test	

LESSON NOTE

Evaluative Questions	Expected learning outcome	Project work to be assigned	Signature of the Teacher	Signature of the Headmaster	Remarks
9	10	11	12	13	14
	Stress in helical compression spring of a circular wire				
	Deflection spring in helical wire				
	Spring on grade numerical design of direct and indirect compression				
	Design of shaft and coupling and requirement of helical spring of shaft coupling				