

SIE

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &

Accredited by NBA (B.E.-CSE EEE ECE, Mech & B.Tech II)

COIMBATORE-641 035, TAMIL NADU

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B.E/B.Tech- Internal Assessment – III Academic Year 2024-2025 (EVEN Semester) Sixth Semester (Common to all branches) 19MEO303 - INDUSTRIAL SAFETY



Time: 11/2 Hours

Maximum Marks: 50

Answer All Questions CO Blooms REM CO 4 What is the role of government agencies in safety education and training? 1. Mention two key responsibilities. (GATE 2021&GATE 2023) ANA CO 4 2. Analyze two future directions for ergonomics. CO<sub>5</sub> REM 3. What are Competence Building Techniques (CBT)? List any three workplace risk factors that contribute to musculoskeletal CO 5 UND 4. disorders (MSDs). (GATE 2020) Apply the concept of motivation to improve employee participation in safety APP CO 5 5. programs. PART - B (2\*13=26 Marks) & (1\*14=14 Marks) Blooms CO REM Explain the history of ergonomics and its evolution in modern CO 4 6. (a) industries. (or) Conduct a case study on the impact of ergonomics on workplace ANA CO 4 13 (b) productivity. Define Competence Building Techniques and explain their role in CO 5 REM 13 7. (a) safety training. (or) Compare different methods of promoting safe practices in industries. CO<sub>5</sub> ANA 13 (b) A medium-scale manufacturing firm is reporting increased complaints of shoulder pain, eye strain, and fatigue among its inspection-line workers. Most workstations are at fixed height and lighting is APP CO4 14 8. (a) fluorescent overhead. (GATE 2020 & GATE 2022) (or) A steel foundry with accident records wants to implement a reward-APP based system to promote safety reporting and hazard identification. CO 5 14 (GATE 2022 & GATE 2023)

Bloom's Taxonomy: REM - Remember UND - Understand APP- Apply ANA- Analyze

Teaching Coordinator

HoD /Mech

(M.Balaje)

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(Common to all branches) 19MEO303 - INDUSTRIAL SAFETY

Time: 11/2 Hours

Maximum Marks: 50

Answer All Questions CO Blooms Define ergonomics and mention any two of its areas of application in the 1. CO<sub>4</sub> UND work system. (GATE 2021) 2. Explain the relationship between ergonomics and workplace productivity. CO<sub>4</sub> UND Analyze the impact of government and private consultancy agencies on 3. CO<sub>5</sub> ANA safety education. 4. Compare the effectiveness of different safety training methods. CO 5 ANA How do safety posters and safety displays help in promoting safe practices? 5. CO 5 UND (GATE 2023) PART - B (2\*13=26 Marks) & (1\*14=14 Marks) CO Blooms Define musculoskeletal disorders (MSDs) and explain their 6. 13 CO 4 (a) REM common causes. to (or) Apply ergonomics principles to improve the working conditions of CO4 (b) APP-13 a factory worker. Explain how safety posters, safety displays, and campaigns 7. CO<sub>5</sub> (a) UND 13 contribute to awareness. (or) Conduct a case study on a successful workplace safety training (b) CO<sub>5</sub> ANA 13 A paint factory with frequent minor incidents (chemical splashes, slips, and minor fires) wants to launch a one-month safety 8. (a) campaign. (GATE 2023) 14 CO4 APP (or) In a fireworks manufacturing unit, most workers have low literacy levels and face recurring minor injuries. The management wants to (b) 14 CO<sub>5</sub> APP implement a CBT based safety module. (GATE 2023)

Bloom's Taxonomy: REM - Remember UND - Understand APP-Apply ANA-Analyze

Faculty in thange 8

Teaching Coordinator

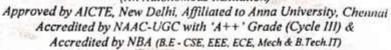
HoD /Mech

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COIMBATORE-641 035, TAMIL NADU

Set (A)

Institution	SNS College of Technology
Branch	Mechanical Engineering
Semester	VI
Course Code/Name	19ME0303 - Franstial Safety
Name of the Faculty	Mr. M. Balaji Apl Mech

IAE-3 Set-A

S.No	Quality Parameters basedon blooms	Grade points (g)	Part	No of Questions(n)	Allotted marks (m)	n*m	Q= n*m*g
23	Remember/	£4.	Α	03	02/	06	90
1	Understand (Level -	1.0	В	02/	13	26	26
100	1,2)		С		Alexandra Control	(a, 4)	Eldin
	2 Apply (Level - 3)		A	01	02	02	04
2		20	В	021	14	28	56
	The state of the state of	0.00	C	When the property of	Name and Address of	In Principles	ETRICO NELL
		4.0	Α	01	02	02/	06
3	Analyze (Level - 4)	nalyze (Level - 4)	В	02	13	26	78
			С				-
	900	1	Α				7
4 Evaluate	Evaluate(Level-5)	4	В	- Office		100	
			С	# East Think			
5	i i i i i i i i i i i i i i i i i i i		Α	FALS	Atta	Tak	6, 1
	Create (Level -6)	5	В				
		100	С	- 13 6	PAR		

Quality Index 
$$Qi = \frac{\sum Q}{\sum (nxm)} = \frac{176}{90} \Rightarrow \boxed{1.88} - \text{Medium}$$

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COIMBATORE-641 035, TAMIL NADU

Set -B

Institution	SNS College	of Technology
Branch	Mechanic	of Technology
Semester		
Course Code/Name	1910E0303 -	raustrial Saket
lame of the Faculty	Mr. M. Bala	i An Mech

S.No	Quality Parameters basedon blooms	Grade points (g)	Part	No of Questions(n)	Allotted marks (m)	n*m	Q= n*m*g
30	Remember/	ري	A	63	02	06	90
1	Understand (Level - 1,2)	10	В	02	13	26	ab
			С			TOWN IN	Sere al
	Apply (Level - 3)	20	Α		- 3		
2	Apply (cever-3)	2	В	01	1.3	13	26
	the second removable to the second the	SELECTION OF THE PERSON OF THE	B	02/	14	2/8	56
	Analyze (Level - 4)	CO CO 110	Α	02/	02	04	12
3 3		3	В	01	13	13	39
20-1-1			C		15-		
	Evaluated and E		A			45 m	
4	Evaluate (Level-5)	4	В	4-17		***	
		refle	С		190	1	
	Create (I and G)		Α	Line 15	1175		
5	Create (Level -6)	5	В	The state of	di -	2	74
			С				ELA.

Quality Index 
$$Qi = \frac{\sum Q}{\sum (nxm)} = \frac{165}{90} \Rightarrow \boxed{1.83} \qquad \boxed{90 \qquad 165}$$

Faculty Par las

Teaching Coordinator

HoD / Mech

VB