


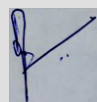
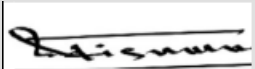


**LESSON PLAN**

<b>COURSE TITLE:</b> Construction Equipment and Job Site Practices		<b>COURSE CODE:</b> CET303	<b>CREDIT HOURS:</b> 02	<b>MINIMUM CONTACT HOURS:</b> 32
<b>COURSE INSTRUCTOR:</b> Engr. Muhammad Shaheer				
Batch: 22BSCET	Semester: 5th	Semester Starting Date: 09-12-2024	Semester Suspension Date: 18-04-2025	
<b>COURSE LEARNING OUTCOMES:</b>				
CLO No.	Description	Taxonomy level	Associated PLO	
1	<b>ANALYZE</b> heavy construction equipment productivities	C4	2	
2	<b>APPLY</b> Project Control Plans for effective site management	C3	11	
<b>LESSON CONTENTS AND ASSOCIATED CLO(s)</b>				
Contents	CLO No.	Marks Assigned	Delivery Methods	Assessment Methods (Marks)
<ul style="list-style-type: none"> <li>❖ <b>Introduction:</b></li> <li>❖ <b>Use and Productivity of Equipment for heavy construction operations including:</b></li> <li>❖ Tractors</li> <li>❖ Dozers</li> <li>❖ Scrapers</li> <li>❖ Motor Graders</li> <li>❖ Power Shovels</li> <li>❖ Off-Road haulers</li> <li>❖ Front End loader</li> <li>❖ Backhoes</li> <li>❖ Draglines</li> <li>❖ Trenchers</li> <li>❖ Rock Drilling Equipment</li> <li>❖ Crushers</li> <li>❖ Conveyors</li> <li>❖ Vertical concreting equipment</li> <li>❖ Crane and Bucket</li> <li>❖ Concrete Pumps</li> <li>❖ Pile Driving operations</li> <li>❖ Rehabilitant old pavements</li> <li>❖ Asphalt paving</li> <li>❖ Concrete paving</li> <li>❖ Payment operations</li> </ul> <p><b>No. of lectures: 14</b></p>	1	23	<ul style="list-style-type: none"> <li>• Class Lecture</li> <li>• Discussion</li> <li>• Example practice</li> </ul>	<ul style="list-style-type: none"> <li>• Assignment (08)</li> <li>• Mid Semester Exam (15)</li> </ul>

<ul style="list-style-type: none"> <li>❖ <b>Job Practices”</b></li> <li>❖ Preparing Crew Assignments</li> <li>❖ Review of Submittals</li> <li>❖ Shop Drawing samples</li> <li>❖ Procurement schedule</li> <li>❖ subcontractor submittals</li> <li>❖ Diaries Log</li> <li>❖ Accident report</li> <li>❖ Progress photograph</li> <li>❖ Video recording</li> <li>❖ Time-lapse photographs</li> <li>❖ Material logs</li> <li>❖ <b>Job site layouts including:</b></li> <li>❖ Material and equipment handlings</li> <li>❖ Materials storage</li> <li>❖ Temporary facilities</li> <li>❖ Jobsite security, fencing, access roads</li> <li>❖ Jobsite tagging, project in congested sites, labor organization and records</li> <li>❖ Implementation of jobsite safety plan</li> <li>❖ Cleaning and construction Waste management</li> <li>❖ On site Material testing and inspection</li> <li>❖ Implementation of environmental plan</li> </ul> <p><b>No. of lectures: 18</b></p>	<b>2</b>	<b>27</b>	<ul style="list-style-type: none"> <li>• Class Lecture</li> <li>• Discussion</li> <li>• Example Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Class Test (07)</li> <li>• Final Exam (20)</li> </ul>
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S. No.	Assessment Activities	Marks	Activities		CLO(s) to be assessed
1	Class Test/Assignment/ Quiz	15	Assignment(s)	1	1
			Class test(s)	1	2
2	Mid Semester Exam	15	1		1
3	Final Semester Exam	20	1		2

Prepared by: <b>Engr. Muhammad Shaheer</b>  Signature: Dated: 01-12-2024	Reviewed by: <b>Curriculum Review Committee</b>  Signature: Dated: 20-12-2024	Approved by: <b>Chairman, CED</b>  Signature: Dated: 20-12-2024
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