Course Name: INTRO ONLINE COURSE DEVELOPMNT

Course Number: GRAD 550

Instructor: Cyndie McCarley

Name: Prabhav Rakesh Vakharia

Week 3 – Assignment - Course Learning Outcomes

Course Title:

"Pavement Evaluation and Management"

Course Learning Outcome: Students will be exploring and analyze the most recent research findings and advancements in the field of pavement evaluation and management. They will be critically reviewing academic papers, reports, and case studies related to pavement distress mechanisms, maintenance strategies, non-destructive testing, and sustainable pavement practices.

Alignment: This assignment aligns with the course outcome by requiring students to apply their knowledge of pavement evaluation and management principles (application of knowledge) in a practical, real-world context.

Format: Students will create a Pavement Management Plan for a hypothetical city or organization.

Statement of Purpose: This assignment aims to assess your ability to apply the principles and techniques of pavement evaluation and management to develop a comprehensive management plan for a real-world scenario. This exercise is crucial in demonstrating your readiness to address the challenges of managing pavement infrastructure effectively.

Instructions:

Step 1: Scenario Introduction You are tasked with developing a Pavement Management Plan for a hypothetical city or organization. This plan should address the assessment, maintenance, and long-term management of the pavement infrastructure within the given scenario. Your scenario details will be provided separately.

Step 2: Pavement Management Plan Your plan should include the following components:

Executive Summary (10% of the grade): A concise overview of your plan's main objectives and recommendations.

Pavement Inventory (20% of the grade): A comprehensive inventory of the pavement assets within the scenario, including data such as age, condition, and location.

Pavement Condition Assessment (25% of the grade): Detailed assessments of pavement conditions, including visual inspections, surveys, and analysis.

Maintenance Strategies (20% of the grade): A clear outline of maintenance strategies, prioritizing areas based on the condition assessment.

Budgeting and Funding Plan (15% of the grade): An estimation of the budget required for implementing the maintenance strategies and recommendations for funding sources.

Risk Analysis (10% of the grade): An assessment of potential risks and challenges in the pavement management plan and suggested mitigation measures.

Step 3: Academic Integrity Considerations

All work should be original and cited properly.

You may use ChatGPT for brainstorming and generating ideas, but ensure that any content from ChatGPT is properly cited in your plan.

Rubric:

Criteria	Excellent (4)	Good (3)	Fair (2)	Poor (1)
Executive Summary	Concise, clear, and effectively summarizes the main objectives and recommendations.	Clear summary of the main objectives and recommendations.	Basic summary with some clarity.	Inadequate or unclear summary.
Pavement Inventory	Comprehensive and accurate inventory of pavement assets with all required data.	Accurate inventory with most required data.	Incomplete inventory with missing data.	Inadequate or inaccurate inventory.
Pavement Condition Assessment	Thorough assessment, including visual inspections,	Adequate assessment with some detail.	Basic assessment with limited detail.	Inadequate or unclear assessment.

Criteria	Excellent (4)	Good (3)	Fair (2)	Poor (1)
	surveys, and analysis, with clear findings.			
Maintenance Strategies	Clear and well-prioritized strategies based on condition assessment.	Strategies are presented with some prioritization.	Basic strategies with limited prioritization.	Inadequate or unclear strategies.
Budgeting and Funding Plan	Accurate budget estimation and clear funding recommendations.	Budget estimation is reasonable, with some funding recommendations.	Basic budgeting with limited funding recommendations.	Inadequate or unclear budget and funding plan.
Risk Analysis	Comprehensive risk analysis with suggested mitigation measures.	Adequate risk analysis with some mitigation suggestions.	Basic risk analysis with limited mitigation suggestions.	Inadequate or unclear risk analysis.

Submission: Ensure that your Pavement Management Plan is compiled into a single document, in a format compatible with the learning management system. Please submit this document to the specified assignment folder.

Looking forward to reviewing your comprehensive Pavement Management Plan!

I used Chat GPT and OSU library to brainstorm ideas and then refined the generated outcomes to align with the course title and description.