



## IT221 – ADVANCED DATABASE SYSTEMS SEMESTRAL PROJECT REQUIREMENTS

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### GRADING RUBRIC

This rubric ensures fair and structured assessment of the IT221 Advanced Database Systems Project based on documentation, database design, query development, implementation, testing, and presentation.






### TEAM MEMBERS INFORMATION

<b>PROPONENTS:</b>	<b>Name of Student 1</b>	<b>– Role</b>
	<b>Name of Student 2</b>	<b>– Role</b>
	<b>Name of Student 3</b>	<b>– Role</b>
	<b>Name of Student 4</b>	<b>– Role</b>
	<b>Name of Student 5</b>	<b>– Role</b>
<b>Activity/Project Title:</b>	Project Title	
<b>Date of Review:</b>	Date Rated Here	



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**Total Score: /100**

SCORE RANGE	GRADE EQUIVALENT
 90 - 100	Excellent
 80 - 89	Very Good
 70 - 79	Satisfactory
 60 - 69	Needs Improvement
 Below 60	Poor

PROJECT DOCUMENTATION (20 POINTS)					
CRITERIA	EXCELLENT (5 PTS)	GOOD (4 PTS)	SATISFACTORY (3 PTS)	NEEDS IMPROVEMENT (2 PTS)	POOR (1 PT.)
<b>Clarity and Organization</b>	Well-structured, logically sequenced, and easy to follow. Uses professional language.	Mostly well-organized with minor issues in flow or clarity.	Some sections lack clarity, but the overall structure is understandable.	Poor organization, making it difficult to follow. Several sections are unclear.	Lacks structure and clarity, making it difficult to comprehend.
<b>Completeness</b>	Includes all required components (Title, Background, Objectives, Scope, Methodology, Testing, Conclusion, etc.).	Missing one or two minor components.	Some major components are missing or incomplete.	Many important sections are incomplete.	Lacks most of the required components.



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DATABASE DESIGN AND ERD (20 POINTS)					
<b>Entity-Relationship Diagram (ERD)</b>	ERD is clear, well-structured, and accurately represents the system's entities, cardinalities, and relationships.	ERD is mostly accurate, with minor mistakes.	ERD has noticeable errors in relationships or missing entities.	ERD is incomplete or has significant mistakes.	ERD is missing or incorrect.
SQL QUERY DEVELOPMENT AND OPTIMIZATION (20 POINTS)					
<b>Query Accuracy</b>	All queries (SELECT, INSERT, UPDATE, DELETE) are correctly structured and execute without errors.	Queries are mostly accurate, with minor syntax or logical errors.	Queries have noticeable issues affecting execution.	Queries contain multiple errors and do not retrieve or modify data correctly.	Queries are missing or do not function properly.
<b>Optimization</b>	Queries are well-optimized using indexing, joins, and efficient filtering.	Queries are mostly optimized but could be improved in execution time.	Some queries are inefficient or use unnecessary operations.	Queries lack optimization and perform poorly.	No optimization is applied, leading to slow or inefficient queries.
SYSTEM IMPLEMENTATION & FUNCTIONALITY (20 POINTS)					
<b>System Functionality</b>	The system works as intended with all major features implemented and error-free.	Most features are implemented and functional, with minor bugs.	Some features work, but there are noticeable issues affecting usability.	Major features are missing or do not work correctly.	The system does not function properly or is incomplete.
<b>Security Features</b>	Implements strong security measures (authentication, role-based access, data protection).	Has security measures but needs improvement.	Security measures are present but weak.	Minimal security, making the system vulnerable.	No security measures implemented.
TESTING AND EVALUATION (10 POINTS)					
<b>Test Cases and Results</b>	Comprehensive test cases covering all functionalities,	Test cases cover most functionalities,	Some test cases are missing or lack proper documentation.	Few test cases provided, with incomplete or unclear results.	No test cases documented.



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	with well-documented results.	with minor gaps in documentation.			
<b>Bug Fixing &amp; Debugging</b>	All identified issues have been resolved and thoroughly tested.	Most issues have been fixed, with minor unresolved bugs.	Some issues remain unresolved, affecting usability.	Major bugs are present, significantly affecting functionality.	No debugging efforts, system is unstable.
<b>PRESENTATION AND DEMO (10 POINTS)</b>					
<b>Clarity &amp; Communication</b>	Presentation is clear, professional, and well-structured.	Mostly clear and professional, with minor issues.	Somewhat clear but lacks professionalism.	Unstructured and difficult to follow.	Presentation is unclear and unprepared.
<b>System Demonstration</b>	Demo is smooth, all features are presented successfully.	Demo is good, with minor technical issues.	Demo has noticeable issues affecting understanding.	Demo is incomplete or has major technical problems.	No demo or system does not function.

Prepared:

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