

Marking criteria	High Distinction (HD) 85 - 100 marks	Distinction (DN) 75-84 marks	Credit (CR) 65-74 marks	Pass (PS) 50-64 marks	Fail (FL) <50 marks
T1 Mathematical Model (10 marks)	<p>Demonstrates comprehensive understanding of relevant theory by presenting mathematical models that are clearly written, with appropriately defined decision variables.</p> <p>Constraints and objective function are all correct.</p> <p>Successfully accomplish all the requirements of a LP model as discussed in the course material.</p>	<p>Demonstrates thorough understanding of relevant theory by presenting mathematical models that are clearly written, with defined decision variables that are usually appropriate.</p> <p>Constraints and objective function are mostly correct with few minor errors.</p>	<p>Demonstrates thorough understanding of relevant theory by presenting mathematical models that are clearly written, with defined decision variables that are usually appropriate.</p> <p>Constraints and objective function are mostly correct with few significant errors</p>	<p>Demonstrates developing understanding of relevant theory by presenting mathematical models that are inconsistently written, with defined decision variables that are occasionally appropriate</p> <p>Constraints and objective function are mostly correct with several significant errors</p>	<p>Demonstrates minimal understanding of relevant theory by presenting mathematical models that are unclearly written, with defined decision variables that are rarely appropriate</p> <p>Constraints and objective function are mostly incorrect</p>
T1 Spreadsheet and Solution (5 marks)	<p>The following are all clearly and accurately identified with no errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints <p>The spreadsheet solutions are verifiable,</p>	<p>Most of the following are clearly and accurately identified with few minor errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints 	<p>Most of the following are accurately identified with few significant errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints 	<p>Most of the following are accurately identified with several significant errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints 	<p>Few of the following are accurately identified::</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints

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	traceable and transferable.				
T2 Mathematical Model (10 marks)	<p>Demonstrates comprehensive understanding of relevant theory by presenting mathematical models that are clearly written, with appropriately defined decision variables.</p> <p>Constraints and objective function are all correct.</p> <p>Successfully accomplish all the requirements of a LP model as discussed in the course material.</p>	<p>Demonstrates thorough understanding of relevant theory by presenting mathematical models that are clearly written, with defined decision variables that are usually appropriate.</p> <p>Constraints and objective function are mostly correct with few minor errors.</p>	<p>Demonstrates thorough understanding of relevant theory by presenting mathematical models that are clearly written, with defined decision variables that are usually appropriate.</p> <p>Constraints and objective function are mostly correct with few significant errors</p>	<p>Demonstrates developing understanding of relevant theory by presenting mathematical models that are inconsistently written, with defined decision variables that are occasionally appropriate</p> <p>Constraints and objective function are mostly correct with several significant errors</p>	<p>Demonstrates minimal understanding of relevant theory by presenting mathematical models that are unclearly written, with defined decision variables that are rarely appropriate</p> <p>Constraints and objective function are mostly incorrect</p>
T2 Spreadsheet and Solution (5 marks)	<p>The following are all clearly and accurately identified with no errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints 	<p>Most of the following are clearly and accurately identified with few minor errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints 	<p>Most of the following are accurately identified with few significant errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints 	<p>Most of the following are accurately identified with several significant errors:</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints 	<p>Few of the following are accurately identified::</p> <ul style="list-style-type: none"> constraints objective functions non-negativity constraints

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	The spreadsheet solutions are verifiable, traceable and transferable.				
T3 Abstract/ Executive Summary (5 marks)	<p>Accurately and succinctly summarises contents of the report.</p> <p>Gives the reader an excellent understanding of the report purpose and content.</p> <p>Provide a hint of managerial implication at the bottom end of the abstract.</p>	<p>Accurately and succinctly summarises contents of the report.</p> <p>Gives the reader a clear understanding of the report purpose and content.</p>	<p>Provides clear picture of the report.</p> <p>Gives the reader a partial understanding of the report purpose and content.</p>	<p>Provides inconsistent picture of the report.</p> <p>Gives the reader limited understanding of the report purpose and content.</p>	<p>Provides an inaccurate, erroneous or incomplete picture of the report.</p> <p>Gives the reader no understanding of the report purpose and content.</p>
T3 Introduction/ Background to the problem (12 marks)	<p>The introduction/ background meets the following criteria to an outstanding degree:</p> <ul style="list-style-type: none"> Explains purpose of report Describes scope and limitations of report Describes methods/sources used to gather information Provides necessary 	<p>The introduction/ background meets the following criteria to an excellent degree:</p> <ul style="list-style-type: none"> Explains purpose of report Describes scope and limitations of report Describes methods/sources used to gather information Provides necessary 	<p>The introduction/ background meets the following criteria to a satisfactory degree:</p> <ul style="list-style-type: none"> Explains purpose of report Describes scope and limitations of report Describes methods/sources used to gather information Provides necessary 	<p>The introduction/ background meets the following criteria inconsistently:</p> <ul style="list-style-type: none"> Explains purpose of report Describes scope and limitations of report Describes methods/sources used to gather information Provides necessary 	<p>The introduction/ background does not meet most of the following criteria:</p> <ul style="list-style-type: none"> Explains purpose of report Describes scope and limitations of report Describes methods/sources used to gather information Provides necessary

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	background information to situate readers <ul style="list-style-type: none"> Offers a preview of the findings. 	background information to situate readers <ul style="list-style-type: none"> Offers a preview of the findings. 	background information to situate readers <ul style="list-style-type: none"> Offers a preview of the findings. 	background information to situate readers <ul style="list-style-type: none"> Offers a preview of the findings. 	background information to situate readers <ul style="list-style-type: none"> Offers a preview of the findings.
T3 Problem Definition and Model (15 marks)	Addresses a wide range of articles/papers. Succinctly presents the findings from the review Indicates that the presenter is very well versed with the topic. Extensive illustration on how this problem is related to the <u>Prescriptive</u> decision analytics and why.	Addresses a broad range of articles/papers. Succinctly presents the findings from the review Indicates that the presenter is well versed with the topic.	Addresses a limited range of articles/papers. Is able to present the findings from the review Indicates that the presenter is well aware of the topic.	Addresses a few articles/papers. Is able to present the findings from the review Indicates that the presenter is aware of the topic.	Has only picked a couple of articles/papers. Is unable to present the findings from the review sensibly. Indicates that the presenter is not aware of the topic.
T3 Solution Approach (10 marks)	Can propose the appropriate methodology to address the problem. Can explain why it is appropriate and other methodologies are not suitable. Can explain the methodology	Can propose the appropriate methodology to address the problem. Can explain why it is appropriate and other methodologies are not suitable. Can explain the methodology in words.	Can propose the appropriate methodology to address the problem. Can explain the methodology. Can suggest the possible results and outcomes.	Can propose the appropriate methodology to address the problem. Can suggest the possible results.	Is unable to suggest an appropriate methodology to address the problem. Is unable to suggest the possible results and outcomes.

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	<p>mathematically or in words.</p> <p>Can suggest the possible results and outcomes.</p> <p>Can interpret the results.</p> <p>Do have a qualitative analysis against comparing methods or approaches</p>	<p>Can suggest the possible results and outcomes.</p> <p>Can interpret the results.</p>			
T3 Interpretation of the results (20 marks)	<p>Excellent documentation of the results.</p> <p>Different performance measures are used to validate the proposed model.</p> <p>Sensitivity analysis was carried out to justify the robustness of the model.</p> <p>Excellent comparison with the current practice and/or alternative methodologies.</p> <p>Perfect focus on the achievements.</p>	<p>Good documentation of the results.</p> <p>Different performance measures are used to validate the proposed model</p> <p>Sensitivity analysis was carried out to justify the robustness of the model</p> <p>Good comparison with the current practice and/or alternative methodologies.</p> <p>Good focus on the achievements.</p>	<p>Good documentation of the results.</p> <p>Different performance measures are used to validate the proposed model</p> <p>Good focus on the achievements.</p>	<p>Good documentation of the results.</p> <p>Good focus on the achievements.</p>	<p>Incomplete documentation of the results.</p>

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	Detailed discussion about any possible limitations of the assumed problem.				
T3 Conclusion (5 marks)	Conclusions and related outcomes (consequences and implications) are logical and reflect student's informed evaluation and ability to place evidence and perspectives discussed in priority order.	Conclusion is logically tied to a range of information, including opposing viewpoints; related outcomes (consequences and implications) are identified clearly.	Conclusion is logically tied to information (because information is chosen to fit the desired conclusion); some related outcomes (consequences and implications) are identified clearly.	Conclusion is inconsistently tied to some of the information discussed; related outcomes (consequences and implications) are oversimplified.	Conclusion is not supported by the data or not evident at all.
T3 References (3 marks)	The report follows a referencing style that complies with the Harvard style, and the in-text citations are made purposefully. Reference list is completely accurate with no errors.	The report follows a referencing style that mostly complies with the Harvard style, and most in-text citations are made purposefully. Reference list is complete and contains few minor errors.	The report follows a referencing style that mostly complies with the Harvard style, though the in-text citations are not made purposefully. Reference list is incomplete and contains some minor errors.	The report follows a referencing style that does not comply with the Harvard style, or only includes either the in-text citations or the reference list. Reference list is incomplete and contains several errors.	The report includes limited or no citations and/or a reference list.