

### III. LEARNING EVIDENCES:

As evidence of attaining the course outcomes, the student has to do and submit the following:

	Learning Evidence	Description and other Details	Course Outcomes it represents
LE1	Data-Driven Computing Solution	A computing solution developed through research using data science techniques and strategies. This must be submitted and presented on or before the last day of the semester.	CO1

### IV. MEASUREMENT SYSTEM:

Learning Evidence: LE1: Data-Driven Computing Solution

Criteria	Beyond Expectation (100 points) - High	Expected (90 points) – Moderate	Needs Improvement (80 points) - Limited	Below Expectation (70 points) - Low
<b>Understanding of Data Science Techniques and Strategies</b>	Demonstrates an in-depth and comprehensive understanding of data science techniques and strategies.	Demonstrates a good understanding of data science techniques and strategies with minor gaps.	Demonstrates a basic understanding of data science techniques and strategies but with significant gaps.	Demonstrates little to no understanding of data science techniques and strategies.
<b>Application of Data Science Techniques</b>	Accurately and effectively applies data science techniques with no errors	Correctly applies data science techniques with minor errors.	Applies data science techniques but with several errors or inconsistencies.	Incorrectly or inappropriately applies data science techniques, leading to flawed results.
<b>Quality and Accuracy of Data Analysis</b>	Analysis is highly accurate, thorough, and coherent, demonstrating deep insight.	Analysis is mostly accurate, coherent, and relevant, with minor inaccuracies.	Analysis is partially accurate but contains significant inaccuracies or lacks depth.	Analysis is flawed, with many inaccuracies and lacks coherence.

#### COURSE SYLLABUS in CSDS 312 – APPLIED DATA SCIENCE

College of Information and Computing	Page 3 of 6
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<b>Innovation and Creativity in the Solution</b>	Solution is highly innovative and creative, providing a unique and effective approach.	Solution demonstrates good creativity and innovation, offering a fresh perspective.	Solution shows some creativity but is largely derivative or uninspired.	Solution lacks innovation and creativity, following a basic or common approach.
<b>Presentation and Documentation of the Solution</b>	Presentation and documentation are exceptionally clear, well-organized, and comprehensive.	Presentation and documentation are well-organized, clear, and mostly complete.	Presentation and documentation are somewhat organized but lack clarity or completeness.	Presentation and documentation are poorly organized, unclear, and incomplete.

### OTHER REQUIREMENTS AND ASSESSMENTS (AA)

Aside from the final output, the student will be assessed at other times during the term by the following:

	Assessment Activity	Description and other Details	Course Outcomes it represents
AA1	Machine Problems	Data science machine problems per module that the student must perform as summative module assessment. These can be accessed submitted via the UVE on a periodic basis.	CO1
AA2	Problem Sets	Data science problems per lesson that the student must perform to assess their understanding of the lessons delivered. These can be accessed submitted via the UVE on a periodic basis.	CO1

### V. GRADING SYSTEM:

The final grade in this course will be composed of the following items and their weights in the final grade computation:

Normalized Score:

$$G_s = \frac{\sum_{i=1}^N (g_i - \min_i)}{\sum_{i=1}^N (\max_i - \min_i)}$$

Assessment Item	Grade Source (Score or Rubric Grade)	Percentage of Final Grade
LE1	Rubric on Data-Driven Computing Solution (Normalized Score)	60%
AA1	Machine Problems Scores	30%
AA2	Problem Set Scores	10%

Passing Grade: 75% (Equivalent to 3.0) and above (base 50)  
 Passing Grade conditions: Obtain passing grade