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**De La Salle University • College of Computer Studies**

**INTESYS / Introduction to Artificial Intelligence**

AY 2014-2015 Term 1

**Major Course Output 2**

Prototype and Evaluation of an

**Expert System for Medical Diagnosis**

suitable for poor communities in the Philippines

Rubrics:

MCO2: Prototype and Evaluation of a Small Expert System (Maximum points: 20)

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| **Criterion** | **Exemplary** | **Satisfactory** | **Developing** | **Beginning** |
| Completeness of Documentation | 5 points  The documentation is complete. Every section is thoroughly explained and the sections are well labelled. | 3-4 points  The documentation is complete, but not every section is thoroughly explained. The sections are well labelled, but some sections are lacking in detail | 2 points  The documentation is not complete and not all sections are thoroughly explained. The sections are not well labelled and some sections are lacking in detail | 1 point  The documentation is very scarce and does not list the relevant information. |
| Quality of ES Recommendations | 9-10 points  There is a considerable number of rules (35 and above) and levels of rules (4 and above), all of which are  correct (faithful to reality) and represented correctly;  the diagnoses/ recommendations of the system are clearly demonstrated to be the same as what an expert in the domain would make. | 6-8 points  There is a sufficient number of rules (20 – 34) and levels of rules (3 levels), all of which are  correct (faithful to reality) and represented correctly;  the ES’ diagnoses/ recommendations are accurate more than 50% of the time. | 3-5 points  There is an insufficient number of rules (10 – 19) and levels of rules (2 levels), though all are  correct (faithful to reality) and represented correctly. | 1-2 points  There is an insufficient number of rules (less than 10) and levels of rules (1 level), some of which are incorrect (faithful to reality) or represented incorrectly. |
| Analysis of ES | 5 points  The analysis clearly shows and explains, both quantitatively and qualitatively, all the major strengths and weaknesses of the ES. | 3-4 points  The analysis clearly shows and explains, mostly qualitatively, the major strengths and weaknesses of the ES. | 2 points  The analysis shows and explains, mostly qualitatively, some of the major strengths and weaknesses of the ES. | 1 point  The analysis does not explain clearly any of the major strengths or weaknesses of the ES. |

**Submission Guidelines**:

1.) On the day of the submission, e-mail a copy of the respective .pl / .java / .cpp files of your ES shells to the email: [arturo.caronongan@delasalle.ph](mailto:arturo.caronongan@delasalle.ph) with the following subject heading: MCO2\_INTESYS\_<Section>\_<Lastnames>. E-mail them before

Ex. MCO2\_INTESYS\_S20\_Caronongan\_Arturo\_Last

2.) On the day of the demo, you will demo in the order your e-mail submission was received.

3.) Prepare a set of sample consultations which will show all the possible consultation outcomes of your expert system. (You may refer to the “Sample Consultations” section of your documentation)

4.) Being unable to show up on the demo with a valid excuse will merit a 0 in the “Quality of ES Recommendations” criteria

5.) The documentation of your MCO2 will be due one week after the demo (August 20 for S17 & S18, August 21 for S19).