Annual Academic Assessment Report Cover Sheet

Program Information:

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<th>Program Assessed</th>
<th>Master of Science</th>
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<tr>
<td>Department</td>
<td>Computer Science</td>
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<tr>
<td>College</td>
<td>Engineering</td>
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<tr>
<td>Department Chair</td>
<td>Dr. Laxmi Gewali</td>
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<td>Assessment Coordinator</td>
<td>Dr. Ajoy Datta</td>
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<td>Date Submitted</td>
<td>12/11/2015</td>
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Contact Person for This Report

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Please attach a narrative (not to exceed 4 pages, excluding appendices) addressing the following:

- What are the student learning outcomes? Please provide a numbered list.
- Which learning outcomes were assessed?
- How were they assessed? (Programs must use at least one direct assessment of student learning.)
- Undergraduate programs should assess at least one University Undergraduate Learning Outcome (UULO) each year, which may or may not overlap with a program learning outcome.
- Graduate programs should assess at least one outcome related to one of the following graduate level requirements each year:
  - student engagement in research, scholarship, creative expression and/or appropriate high-level professional practice.
  - activities requiring originality, critical analysis and expertise.
  - the development of extensive knowledge in the field under study.

- What was learned from the assessment results?
- How did the program respond to what was learned?

Please limit the narrative portion of your report to no more than four pages. You may attach appendices with data, tables, charts, or other materials as needed. Please explain the relevant conclusions from any appendices in your narrative. Please contact the Office of Academic Assessment if you have questions or need assistance.
For the MS degree in computer science we have specified the following student outcomes:

1.- Acquires in-dept knowledge of specialized areas and advanced topics in computer science.
2.- Independently analyze, design, and implement an innovative computer application or research project.
3.- Prepare a final project or research report on the solution to a computer-related problem.
4.- Present the results of their research orally.

The Computer Science master’s program gives you the opportunity to study different areas, including:

- Design and analysis of algorithms
- Operating and distributed systems
- Computer architecture and networking
- Computational geometry and robotics
- Computer graphics and image processing
- Programming languages and compiler construction
- Artificial intelligence and expert systems
- Database design, document analysis, and retrieval Software engineering

The following learning outcomes were assessed:

- Prepare a final project or research report on the solution to a computer-related problem.
- Present the results of their research orally

They were assessed:

- Written report submitted to a CS faculty committee. The results are collected on how well the project is written and the new technique is described.
- Students present their Thesis or Project report in an oral presentation to the CS faculty and Graduate students. Results are collected on how well the student presented.
Assessing Student Engagement in Research

Students research work in Independent Study class and Thesis research was assessed by the student's thesis committee. Finally, the committee also assessed the final report and the presentation.

Assessment results:

- Student thesis/project reports and oral examinations indicated the students have met all the desired learning outcomes. The MSCS Program is performing very well.
- Based on the outcomes, no program changes will be taken at this time. The responsibility is shared by the CS graduate committee. Any changes are subject to a vote by the CS department tenure faculty.

Respond to what was learned:

Based on assessments, no recommendations for changes to the MS program were made. The CS department is encouraging faculty members to attend workshops on assessment processing both outside and inside UNLV.