

## **Executive Summary**

### **Associate Degree in Computer Networking**

### **Cycle III (2023-24)**

The Department of Computer Sciences has been chosen to commence and implement the Self-Assessment procedure proposed by HEC's Quality Assurance Agency (QAA) to pursue the VU mission of quality education. The current document summarizes the findings of the self-assessment process executed for the BS Computer Science program.

The Department of Computer Sciences is committed to producing graduates who can develop computer applications/processes to enhance the efficiency & effectiveness of organizations to lead in the global marketplace. The department follows its vision in all of its courses and areas of specialization offered at both **Master's** and **Bachelor's** levels. The department feels satisfied upon completion of the following list of tasks:

1. **Development of *Self-Assessment Report (SAR)*** by the Program Team (PT) for the Associate Degree in Computer Networking.
2. Conduct of critical review and submission of the ***Assessment Report (AR)*** by the Assessment Team (AT) for the Associate Degree in Computer Networking.
3. Development of ***Rectification Plan*** by Head of Department

The tasks were completed according to the set methodology through Program and Assessment Teams nominated by the Rector on the recommendation of the Department.

### **Methodology**

The department adopted the identical methodology defined by the QAA. The methodology includes the nomination and notification of PT and AT after approval of the competent authority. Initial orientation and training sessions for all members were arranged. All the relevant materials like the manual, survey forms, etc. were provided to PT and AT.

#### **Program & Assessment Teams**

<b>Sr.#</b>	<b>Name</b>	<b>Type</b>	<b>Designation</b>
1.	Mr. Arif Husen	PT	Lecturer (Computer Science)
2.	Dr. Israr Ullah	AT	Assistant Professor, (Computer Science)

PT developed the SAR following the eight criteria available in QA Manual provided by QAA, HEC. Various recommended surveys (Graduating, Alumni, and Faculty satisfaction) were also conducted to collect diverse feedback. A meeting was scheduled for May 24, 2024, at the Lawrence Road office to critically evaluate the program by AT, with all DQE team members in

attendance. After the meeting, AT submitted a report and feedback form (Rubric Form) to DQE. Based on the findings of AT, the Head of the Computer Science Department was requested to develop a rectification plan. Continuous support, guidance, and feedback were provided to both PT and AT members to prepare the SAR and AT Reports for the said program. DQE will now monitor the implementation of the Rectification Plan.

### **Key Findings of the SAR:**

Following is the summary of the key SAR findings:

1. There is no department-level committee or body that periodically evaluates the program and recommends improvements.
2. The method for mapping Program Objectives to Course Outcomes needs revision to enable informed decision-making. It would be beneficial to reflect this on a scale, indicating the current status and desired.
3. A new aspect of evaluating the program's effectiveness is introduced through the assessment of Students' Academic Performance. The department must critically assess students' performance to promote data-driven decision-making.
4. Employers' survey is not conducted to get feedback from VU graduates.
5. The practical components of the courses need enhancement, and assessments should also be specific to develop and evaluate the student's technical skills.
6. LMS needs to be upgraded to include the element of active learning.
7. A dedicated networking lab is desired for the program. A proposal for this lab is currently in the pipeline and, if approved, it is expected to meet the program's needs.
8. More transparency in the recruitment process must be ensured. To rationalize the current workload, new faculty must be hired on a priority basis.
9. To ensure the psychomotor domain of the program, the required support and facilities are missing in the program.
10. To contribute effectively to scholarly activities and to remain current in their discipline, the faculty is not giving proper time to research. VU needs to enhance the working environment for faculty to boost productivity.

### **Conclusion and Recommendations:**

Analysis of the Criteria Referenced Self-Assessment reveals that the performance of the department is **Good to Excellent** in most of the areas, however, poor performance has been observed in only one of the areas i.e., Criterion 8 (Institutional Support). The program has secured an overall good assessment score (77.31/100) reported by AT. In accordance with AT report, it has been found that criterion 8 needs improvement which is regarding Institutional Support to

offer enough support to attract and retain high-quality faculty and ensure the availability of financial resources for library holdings. Campus facilities are not sufficient to meet the needs of faculty.

The areas that need corrective actions identified during the self-assessment process have been reported to the Head of Computer Science for rectification. DQE will follow up on the rectification plan as per a specific timeframe to track continuous improvement.

**Prepared by:**



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Director DQE: \_\_\_\_\_