

Executive Summary

Associate Degree of Database Management System

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 Database Management System.
2. Conduct of critical review and submission of the ***Assessment Report (AR)*** by the Assessment Team (AT) for the Associate Degree in Database Management System.
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

Sr.#	Name	Type	Designation
1.	Mr. Shabib Aftab	PT	Lecturer (Computer Science)
2.	Dr. Salman Bashir	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. The mapping of learning objectives and outcomes is inconsistent.
2. The strategic plan to achieve the program goals and objectives need revision as it is not sufficient to meet the requirements.
3. There is no department-level committee or body that periodically evaluates the program and recommends improvements.
4. The mapping of the programs' learning objectives (PLOs) and programs' educational outcomes (PEOs) needs revision on a priority basis.
5. Physical inspection of infrastructure and facilities at VU campuses is not possible, therefore VU should adopt a mechanism of periodic audits and make available the audit reports to AT as a piece of evidence.
6. The Employers' survey needs to be conducted to know about the quality of the program.
7. The student-teacher interaction is limited in online education, which is substituted by modern ICT tools like Skype, Adobe, Zoom. The total count of such sessions along with participants' attendance is unavailable. The feedback of students on the effectiveness of these tools and the quality of such interactions is also required.
8. Career counseling is considered as one of the crucial support services that a university should offer to students, however, this service is currently minimal level. For career counseling of students, seminars and workshops should be organized at least once a semester, and experts from industries and organizations should be invited for live interaction and discussion
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.

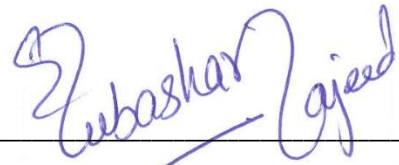
Conclusion and Recommendations:

While analyzing the Rubric proforma provided by HEC for Self-Assessment, it has been found that the performance of the department is relatively GOOD. AT awarded an overall assessment score (78.60/100).

In the report, need improvement areas are identified by AT. Criterion # 8 (Faculty) and Criterion # 7 (Institutional Facilities) are rated relatively low. The criterion 'Institutional Facilities' is about the retention of quality faculty members. The response of AT reflected that they are not satisfied with the existing incentive plan to retain quality faculty. The shortage of Ph.D. faculty members, the contribution of faculty members for scholarly activities, and the limited access to digital resources and physical libraries are other areas about which AT has shown concerns.

The Need Improvement areas identified during the self-assessment process have been reported to the Head of the respective Department and specific rectifications have also been requested. DQE will follow up on the implementation plan as per the specific time frame.

Prepared by:



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Manager, QA

Director DQE: _____