Virtual University of Pakistan

Assessment Team Report

Department: Computer Science & Information Technology

Program Title: MS in Computer Science

Assessment Cycle: Cycle-III

Assessment Year: 2023-24

Criteria Referenced Evaluation

	Excellent Performance in all areas.	Good to Excellent Performance in all areas.	Good Performance for most areas *	Fair Performance in most of the areas.	Poor Performance in most of the areas.	Score
Criterion 1 - Program Mission, Objectives and Outcomes			✓			3.33
Criterion 2 - Curriculum Design and Organization	✓					17.00
Criterion 3 - Laboratories and Computing Facilities		✓				8.00
Criterion 4 - Student Support and Advising			✓			6.67
Criterion 5 - Process Control		✓				10.64
Criterion 6 - Faculty			✓			13.14
Criterion 7 - Institutional Facilities			✓			6.00
Criterion 8 - Institutional Support		✓				7.00

^{*} No poor performance in any areas.

Signagure of AT:
Name & Designation: Hasnain Ahmed, Assistant Professor (CS & IT)
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Signagure	of DQE	Cordinator
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Name & Designation: Dr. Mubashar Majeed Qadri

Reviewed By:

Dr. Mubashar Majeed Qadri Manager Quality, DQE

Criterio	n 1 – Program Mission, Objectives and Outcomes				Weight =	0.05
Factor	rs Score	5	4	3	2 1	
1	Does the Program have documented measurable objectives that support faculty / college and institution mission statements?		\square			
2	Does the Program have documented outcomes for graduating students?					
3	Do these outcomes support the Program objectives?			\square		
4	Are the graduating students capable of performing these outcomes?		\square			
5	Does the department assess its overall performance periodically using quantifiable measures?			\square		
6	Is the result of the Program Assessment documented?					
	Total Encircled Value (TV)	0	8	12	0	0
	Score 1 (S1) = [TV/(No. of Questions *5)] *100 *Weight =			3.33		

	Comments/Observations/Key Findings:		
1	Need to revisit/review program objectives to make it measurable.	1	
2	Similarly, need to revisit program learning outcomes to make it measurable and align with the program objectives.	2	
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Criterio	n 2 – Curriculum Design and Organization				Weight =	0.20
Factor	rs Score	5	4	3	2	1
1	Is the curriculum consistent?	$\overline{\checkmark}$				
2	Does the curriculum support the program's documented objectives?		\square			
3	Are theoretical background, problem analysis and solution design stressed within the program's core material?		\square			
4	Does the curriculum satisfy the core requirements laid down by respective accreditation bodies?	$\overline{\mathbf{A}}$				
5	Does the curriculum satisfy the major requirements laid down by HEC and the respective councils / accreditation bodies?	$\overline{\square}$				
6	Does the curriculum satisfy the general education, arts and professional and other discipline requirements as laid down by the respective / accreditation bodies / councils?			\square		
7	Is the information technology component integrated throughout the program?	$\overline{\checkmark}$				
8	Are oral and written skills of the students developed and applied in the program?			$\overline{\checkmark}$		
	Total Encircled Value (TV)	20	8	6	0	0
	Score 2 (S2) = [TV/(No. of Questions *5)] *100 *Weight =			17.00		

	Comments/Observations/Key Findings:		
1	As this is a graduate program, therefore, it does not satisfy the general education, arts and professional and other discipline requirements including oral and written skills.	1	
2	The curriculum very much follows the major requirements laid down by HEC.	2	
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Criterio	n 3 – Laboratories and Computing Facilities				Weight =	0.10
Factor	rs Score	5	4	3	2	1
1	Are laboratory manuals / documentation / instructions etc. for experiments available and readily accessible to faculty and students?			Ø		
2	Are there adequate number of support personnel for instruction and maintaining the laboratories?	V				
3	Are the university's infrastructure and facilities adequate to support the program objectives?		\square			
	Total Encircled Value (TV)	5	4	3	0	0
Score 3 (S3) = [TV/(No. of Questions *5)] *100 *Weight =				8.00		

	Comments/Observations/Key Findings:		
1	Usually, labs with hardware are not necessary for research in computer science.	1	
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Criterio	n 4 – Student Support and Advising				Weight =	0.10
Factor	rs Score	5	4	3	2	1
1	Are the courses being offered in sufficient frequency and number for the students to complete the program in a timely manner?	$\overline{\mathbf{A}}$				
2	Are the courses in the major area structured to optimize interaction between the students, faculty and teaching assistants?					
3	Does the university provide academic advising on course decisions and career choices to all students?				$\overline{\mathbf{A}}$	
	Total Encircled Value (TV)	5	0	3	2	0
	Score 4 (S4) = [TV/(No. of Questions *5)] *100 *Weight =			6.67		

	Comments/Observations/Key Findings:		
1	Most MSCS students being job holders, rarely interact with their course teachers. Most interactopm tales place during the research thesis.	1	
2	Currently, there is no forum for for advising students regarding academic decisions and career choices.	2	
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Criterio	on 5 – Process Control				Weight =	0.15
Facto	rs Score	5	4	3	2	1
1	Is the process to enroll students to a program based on quantitative and qualitative criteria?		\square			
2	Is the process above clearly documented and periodically evaluated to ensure that it is meeting its objectives?		$\overline{\mathbf{A}}$			
3	Is the process to register students in the program and monitoring their progress documented?					
4	Is the process above periodically evaluated to ensure that it is meeting its objectives?		\square			
5	Is the process to recruit and retain faculty in place and documented?			\square		
6	Are the processes for faculty evaluation & promotion consistent with the institution mission?		V			
7	Are the processes in 5 and 6 above periodically evaluated to ensure that they are meeting their objectives?			V		
8	Do the processes and procedures ensure that teaching and delivery of course material emphasize active learning and that course learning outcomes are met?				V	
9	Is the process in 8 above periodically evaluated to ensure that it is meeting its objectives?				V	
10	Is the process to ensure that graduates have completed the requirements of the program base on standards and documented procedures?	$\overline{\square}$				
11	Is the process in 10 above periodically evaluated to ensure that it is meeting its objectives?		V			
	Total Encircled Value (TV)	5	24	6	4	0
	Score 5 (S5) = [TV/(No. of Questions *5)] *100 *Weight =			10.64		

	Comments/Observations/Key Findings:		
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Facto	ors Score	5	4	3	2	1
1	Are there enough full-time faculty members to provide adequate coverage of the program areas / courses with continuity and stability?			<u> </u>		
2	Are the qualifications and interests of faculty members sufficient to teach all courses, plan, modify and update courses and curricula?					
3	Do the faculty members posses a level of competence that would be obtained through graduate work in the discipline?	Ø				
4	Do the majority of faculty members hold a Phd degree in their discipline?		V			
5	Do faculty members dedicate sufficient time to research to remain current in their disciplines?					
6	Are there mechanisms in place for faculty development?					
7	Are faculty members motivated and satisfied so as to excel in their profession?			\square		
	Total Encircled Value (TV)	5	4	12	2	0
	Score 6 (S6) = [TV/(No. of Questions *5)] *100 *Weight =			13.14		

	T		
1	There is a need to define standard benchmark for student-teacher ratio in ODL.	1	
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Criterion 7 – Institutional Facilities			Weight = 0.10			
Factor	s Score	5	4	3	2	1
1	Does the institution have the infrastructure to support new trends such as e-learning?					
2	Does the library contain technical collection relevant to the program and is it adequately staffed?			\square		
3	Are the class rooms and offices adequately equipped and capable of helping faculty carry out their responsibilities?			Ø		
	Total Encircled Value (TV)	0	0	9	0	0
Score 7 (S7) = [TV/(No. of Questions *5)] *100 *Weight =		6.00				

	Comments/Observations/Key Findings:		
1	The computer systems allocated to the faculty members need to be upgraded as they do not fulfill the system requirements of many new applications (in particular software development IDEs/packages).	1	
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Criterio	on 8 – Institutional Support					Weight =	0.10
Factor	rs Score		5	4	3	2	1
1	Is there sufficient support and finances to attract and retain high quality faculty?			V			
2	Are there an adequate number of high quality graduate students, teaching assistants and Ph.D students?	D.					
	Total Encircled Value	e (TV)	0	4	3	0	0
	0 (00) [777] (1)						
	Score 8 (S8) = [TV/(No. of Questions *5)] *100 *Weight =				7.00		
	Score 8 (S8) = [TV/(No. of Questions *5)] *100 *Weight =				7.00		
	Comments/Observations/Key Findings:				7.00		
1		1			7.00		
1 2		1 2			7.00		

OVERALL ASSESSMENT SCORE	= S1 + S2 + S3 + S4 + S5 + S6 + S7 + S8
	= 3.33 + 17.0 + 8.00 + 6.67 + 10.6 + 13.1 + 6.00 + 7.00
	= 71.78 / 100

	= 71.78 / 100
Overall (Comments by Assessment Team:
There is a	need to review the program objectives and outcomes to make it measureable.
Commer	nts by DQE Coordinator: