Virtual University of Pakistan

Assessment Team Report

Department Computer Science and Information Technology

PhD in Computer Sciences

Criteria Referenced Evaluation

	Poor performance in most of the areas.	Fair performance in most of the areas.	Good performance for most areas / No poor performance in any areas.	Good to excellent performance in all areas.	Excellent performance in all areas.	Score
Criterion 1			✓			3.33
Criterion 2				✓		15.50
Criterion 3				✓		8.00
Criterion 4			✓			6.67
Criterion 5				✓		12.00
Criterion 6			✓			13.71
Criterion 7					√	8.67
Criterion 8			✓			7.00

Criterion 1 - Program Mission, Objectives and Outcomes				Weight		
Fac	ctors Score					
1	Does the Program have documented measureable objectives that support faculty / college and institution mission statements?	5	P	3	2	1
2	Does the Program have documented outcomes for graduating students?	5	P	3	2	1
3	Do these outcomes support the Program objectives?	5	P	3	2	1
4	Are the graduating students capable of performing these outcomes?	5	4	3	2	1
5	Does the department assess its overall performance periodically using quantifiable measures?	5	P	3	2	1
6	Is the result of the Program Assessment documented?	5	P	3	2	1
	Total Encircled Value (TV)	0	20	0	0	0
	Score 1 (S1) = [TV/(No. of Questions *5)] *100 *Weight =			3.33		
Crite	Criterion 2 - Curriculum Design and Organization			Wei	ght =	0.20
Fac	ctors Score					
1	Is the curriculum consistent?	5	P	3	2	1
2	Does the curriculum support the program's documented objectives?	5	P	3	2	1
3	Are theoretical background, problem analysis and solution design stressed within the program's core material?	5	4	P	2	1
4	Does the curriculum satisfy the core requirements laid down by respective accreditation bodies? (refer Appendix A of the Self Assessment Manual)	5	P	3	2	1
5	Does the curriculum satisfy the major requirements laid down by HEC and the respective councils / accreditation bodies?	5	P	3	2	1
6	Does the curriculum satisfy the general education, arts and professional and other discipline requirements as laid down by the respective / accreditation bodies / councils?	5	P	3	2	1
7	Is the information technology component integrated throughout the program?	P	4	3	2	1
8	Are oral and written skills of the students developed and applied in the program?	5	4	P	2	1
	Total Encircled Value (TV)	5	20	6	0	0
	Score 2 (S2) = [TV/(No. of Questions *5)] *100 *Weight =			15.50		
Crite	rion 3 - Laboratories and Computing Facilities			Wei	ght =	0.10
Fac	ctors Score					
1	Are laboratory manuals / documentation / instructions etc. for experiments available and readily accessible to faculty and students?	5	P	3	2	1
2	Are there adequate number of support personnel for instruction and maintaining the laboratories?	5	P	3	2	1
3	Are the university's infrastructure and facilities adequate to support the program objectives?	5	P	3	2	1
	Total Encircled Value (TV)	0	12	0	0	0
	Score 3 (S3) = [TV/(No. of Questions *5)] *100 *Weight =			8.00		
Crite	rion 4 - Student Support and Advising			Wei	ght =	0.10
Fac	ctors Score					
1	Are the courses being offered in sufficient frequency and number for the students to complete the program in a timely manner?	5	P	3	2	1
2	Are the courses in the major area structured to optimize interaction between the students, faculty and teaching assistants?	5	4	P	2	1
3	Does the university provide academic advising on course decisions and career choices to all students?	5	4	P	2	1
	Total Encircled Value (TV)	0	4	6	0	0
	Score 4 (S4) = [TV/(No. of Questions *5)] *100 *Weight =			6.67		

Criterion 5 - Process Control				Wei	ght =	0.15
Factors Score						
Is the process to enroll students to a progr criteria?	ram based on quantitative and qualitative	5	P	3	2	1
2 Is the process above clearly documented a meeting its objectives?	nd periodically evaluated to ensure that it is	5	P	3	2	1
Is the process to register students in the procumented?	rogram and monitoring their progress	5	P	3	2	1
4 Is the process above periodically evaluated	d to ensure that it is meeting its objectives?	5	P	3	2	1
5 Is the process to recruit and retain faculty	•	5	P	3	2	1
Are the processes for faculty evaluation & mission?	•	5	P	3	2	1
Are the processes in 5 and 6 above period meeting their objectives?		5	P	3	2	1
emphasize active learning and that course		5	P	3	2	1
Is the process in 8 above periodically evaluobjectives?		5	P	3	2	1
base on standards and documented proces		5	P	3	2	1
Is the process in 10 above periodically evaluation objectives?	lluated to ensure that it is meeting its	5	P	3	2	1
	Total Encircled Value (TV)	0	44	0	0	0
Score 5 (S5) = [TV/(No. of Que	estions *5)] *100 *Weight =	12.00				
Criterion 6 - Faculty				Weig	ght =	0.20
Factors Score						
Are there enough full time faculty member program areas / courses with continuity a		5	P	3	2	1
plan, modify and update courses and curri	lty members sufficient to teach all courses, cula?	5	P	3	2	1
3 Do the faculty members posses a level of c graduate work in the discipline?	ompetence that would be obtained through	5	P	3	2	1
4 Do the majority of faculty members hold a	·	5	4	3	P	1
Do faculty members dedicate sufficient tin disciplines?	ne to research to remain current in their	5	4	P	2	1
6 Are there mechanisms in place for faculty	development?	5	4	P	2	1
7 Are faculty members motivated and sati	sfied so as to excel in their profession?	5	P	3	2	1
	Total Encircled Value (TV)	0	16	6	2	0
Score 6 (S6) = [TV/(No. of Qu	13.71					
Criterion 7 – Institutional Facilities				Wei	ght =	0.10
Factors Score						
1 Does the institution have the infrastructur	e to support new trends such as e-learning?	P	4	3	2	1
						1
Does the library contain technical collection staffed?		5	4	P	2	1
Does the library contain technical collection staffed?	ely equipped and capable of helping faculty	5 P	4	P 3	2	1
Does the library contain technical collection staffed? Are the class rooms and offices adequate						

Criterion 8 - Institutional Support				Weight =		0.10	
Factors Score							
1	Is there sufficient support and finances to attract and retain high quality faculty?	5	P	3	2	1	
2	Are there an adequate number of high quality graduate students, teaching assistants and Ph.D students?	5	4	Р	2	1	
	Total Encircled Value (TV)		4	3	0	0	
	Score 8 (S8) = [TV/(No. of Questions *5)] *100 *Weight =		7.00				

OVERALL ASSESSMENT SCORE =

S1 + S2 + S3 + S4 + S5 + S6 + S7 +S8

 $= \frac{3.33 + 15.50 + 8.00 + 6.67 + 12.00 +}{13.71 + 8.67 + 7.00}$

= 74.88 / 100

Comments:

The overall PhD in Computer Science program design and evaluation procedures are satisfactory but there are certain areas that can be improved which are as follows:

- Need to develop new courses which should be offered only in PhD in Computer Science program.
- The program design does not aim to improve oral skills of the student. There should be two synchronous oral presentations by students in each course.
- There should be a structured academic advising procedure for student counseling regarding their course and career choices.
- There is a need for more PhD faculty members in the department.
- Faculty members should be allotted more time for research activities to update their knowledge of the domain area.
- University should start faculty development programs.
- Since there are no graduate students, program outcomes could not be measured.