Virtual University of Pakistan

Assessment Team Report

Department Name: Bioinformatics and Computational Biology

Program Name: BS Bioinformatics

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					✓	5.00
Criterion 2					✓	17.50
Criterion 3				✓		8.00
Criterion 4					✓	8.67
Criterion 5					✓	13.91
Criterion 6					✓	17.14
Criterion 7		✓				5.33
Criterion 8				✓		8.00

riterio	n 1 – Program Mission, Objectives and Outcomes			Wei	ght =	0.05
Factor	s Score					
	oes the Program have documented measureable objectives that support faculty / llege and institution mission statements?	✓	4	3	2	1
2 Do	pes the Program have documented outcomes for graduating students?	✓	4	3	2	1
3 Do	o these outcomes support the Program objectives?	✓	4	3	2	1
4 Ar	re the graduating students capable of performing these outcomes?	✓	4	3	2	1
	pes the department assess its overall performance periodically using quantifiable easures?	✓	4	3	2	1
6 Is	the result of the Program Assessment documented?	✓	4	3	2	1
	Total Encircled Value (TV)	30	0	0	0	0
	Score 1 (S1) = [TV/(No. of Questions *5)] *100 *Weight =			5.00		
riterio	n 2 - Curriculum Design and Organization			Wei	ght =	0.20
Factors						0.20
T	the curriculum consistent?	5	√	3	2	1
2 Do	pes the curriculum support the program's documented objectives?	√	4	3	2	1
≺	re theoretical background, problem analysis and solution design stressed within the	5	√	3	2	1
A. Do	rogram's core material? Does the curriculum satisfy the core requirements laid down by respective accreditation	√	4	3	2	1
₅ Do	odies? (refer Appendix A of the Self Assessment Manual) best he curriculum satisfy the major requirements laid down by HEC and the	✓	4	3	2	1
	spective councils / accreditation bodies? best the curriculum satisfy the general education, arts and professional and other scipline requirements as laid down by the respective / accreditation bodies /	5	√	3	2	1
	the information technology component integrated throughout the program?	5	√	3	2	1
	re oral and written skills of the students developed and applied in the program?	5	✓	3	2	1
	Total Encircled Value (TV)	15	20	0	0	0
	Score 2 (S2) = [TV/(No. of Questions *5)] *100 *Weight =			17.50		
riterio	n 3 - Laboratories and Computing Facilities			Wei	ght =	0.10
Factors						
1 Ar	re laboratory manuals / documentation / instructions etc. for experiments available	5	✓	3	2	1
₂ Ar	nd readily accessible to faculty and students? The there adequate number of support personnel for instruction and maintaining elaboratories?	5	✓	3	2	1
	re the university's infrastructure and facilities adequate to support the program	5	✓	3	2	1
- S						0
3	ojectives? Total Encircled Value (TV)	0	12	0	0	0
3	Total Encircled Value (TV)	0	12	8.00	0	0
3 ob	Total Encircled Value (TV) Score 3 (S3) = [TV/(No. of Questions *5)] *100 *Weight =	0	12	8.00		
ot ot	Total Encircled Value (TV) Score 3 (S3) = [TV/(No. of Questions *5)] *100 *Weight = n 4 - Student Support and Advising	0	12	8.00	0 ght =	
riterio	Total Encircled Value (TV) Score 3 (S3) = [TV/(No. of Questions *5)] *100 *Weight = n 4 - Student Support and Advising s Score re the courses being offered in sufficient frequency and number for the students to	0	4	8.00		
Factors Ar co Ar Ar co	Total Encircled Value (TV) Score 3 (S3) = [TV/(No. of Questions *5)] *100 *Weight = n 4 - Student Support and Advising s Score re the courses being offered in sufficient frequency and number for the students to omplete the program in a timely manner? re the courses in the major area structured to optimize interaction between the			8.00 Wei	ght =	0.10
Factors Art Co Art Co Art Co Co Co Co Co Co Co Co Co C	Total Encircled Value (TV) Score 3 (S3) = [TV/(No. of Questions *5)] *100 *Weight = n 4 - Student Support and Advising s Score re the courses being offered in sufficient frequency and number for the students to amplete the program in a timely manner?	✓	4	8.00 Weig	ght = 2	0.10

8.67

Criterion 5 - Process Control			Wei	ght =	0.15
Factors Score					
Is the process to enroll students to a program based on quantitative and qualitative criteria?	✓	4	3	2	1
Is the process above clearly documented and periodically evaluated to ensure that it is meeting its objectives?	✓	4	3	2	1
Is the process to register students in the program and monitoring their progress documented?	✓	4	3	2	1
4 Is the process above periodically evaluated to ensure that it is meeting its objectives?	5	✓	3	2	1
5 Is the process to recruit and retain faculty in place and documented?	✓	4	3	2	1
Are the processes for faculty evaluation & promotion consistent with the institution mission?	5	✓	3	2	1
7 Are the processes in 5 and 6 above periodically evaluated to ensure that they are meeting their objectives?	5	✓	3	2	1
B Do the processes and procedures ensure that teaching and delivery of course material emphasize active learning and that course learning outcomes are met?	✓	4	3	2	1
Is the process in 8 above periodically evaluated to ensure that it is meeting its objectives?	5	✓	3	2	1
Is the process to ensure that graduates have completed the requirements of the program base on standards and documented procedures?	✓	4	3	2	1
Is the process in 10 above periodically evaluated to ensure that it is meeting its objectives?	✓	4	3	2	1
Total Encircled Value (TV)	35	16	0	0	0
Score 5 (S5) = [TV/(No. of Questions *5)] *100 *Weight =		13.91			
Criterion 6 - Faculty			Wei	ght =	0.20
Factors Score					
Are there enough full time faculty members to provide adequate coverage of the program areas / courses with continuity and stability?	5	✓	3	2	1
Are the qualifications and interests of faculty members sufficient to teach all courses, plan, modify and update courses and curricula?	✓	4	3	2	1
3 Do the faculty members posses a level of competence that would be obtained through graduate work in the discipline?	✓	4	3	2	1
4 Do the majority of faculty members hold a PhD degree in their discipline?	5	4	✓	2	1
Do faculty members dedicate sufficient time to research to remain current in their disciplines?	✓	4	3	2	1
6 Are there mechanisms in place for faculty development?	5	✓	3	2	1
7 Are faculty members motivated and satisfied so as to excel in their profession?	5	✓	3	2	1
Total Encircled Value (TV)	15	12	3	0	0
Score 6 (S6) = [TV/(No. of Questions *5)] *100 *Weight =			17.14		
Criterion 7 - Institutional Facilities			Wei	ght =	0.10
Factors Score					
1 Does the institution have the infrastructure to support new trends such as e-learning?	5	✓	3	2	1
Does the library contain technical collection relevant to the program and is it adequately staffed?	5	4	3	✓	1
Are the class rooms and offices adequately equipped and capable of helping faculty	5	4	3	✓	1
carry out their responsibilities?					
Total Encircled Value (TV)	0	4	0	4	0

Criterion 8 - Institutional Support				Wei	ght =	0.10
Factors Score						
1	Is there sufficient support and finances to attract and retain high quality faculty?	5	✓	3	2	1
2	Are there an adequate number of high quality graduate students, teaching assistants and Ph.D students?	5	√	3	2	1
	Total Encircled Value (TV)			0	0	0
Score 8 (S8) = [TV/(No. of Questions *5)] *100 *Weight =		8.00				

OVERALL ASSESSMENT SCORE =

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

 $= \frac{5.00 + 17.50 + 8.00 + 8.67 + 13.91 +}{17.14 + 5.33 + 8.00}$

 $_{=}83.55/100$

Comments:

erall Deparmtent of Bioinformatics and Computational Biology performs very well, the accuracy is excellent and the
antity plus quality of work produced is outstanding.