



Annual Program Report

— (Bachelor)

Program: Biology
Program Code (as per Saudi Standard Classification of Educational Levels and Specializations): 051102
Sub-level Code: 645
Qualification Level: 6
Department: Biology
College: Al-Darb University college
Institution: Jazan University
Academic Year: 2024
Main Location: Jazan
Branches offering the Program (if any): <ul style="list-style-type: none">• Jazan males• Jazan females• Al-Darb branch



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A. Program Statistics

Item	Number
Number of students enrolled in the program	263
Number of students who started the program (in reporting year)	44
Number of students who completed the program	95

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B. Program Assessment

1. Program Learning Outcomes Assessment and analysis according to PLOs assessment plan

#	Program Learning Outcomes	Assessment Methods (Direct and Indirect)	Targeted Performance (%)	Assessment Results		
				Term I	Term II	Term III
Knowledge and Understanding				Term I	Term II	Term III
K1	Display a broad knowledge and understanding of the principal, theories and concepts of Biology, In addition to the basic principles of chemistry, physics, and mathematics that form the foundation on which all of biology rests.	Interactive lectures. Classroom discussions Tutorials. Individual assignments. Group discussion. Lab-work. Self-learning activities. E-Videos. CLO survey	60%	Direct: 77.4 Indirect: 4.65	73.9 4.75	67.6 4.09
K2	Demonstrate significant knowledge and understanding of the processes, techniques, mechanisms, functions, practices, conventions and terminology of Biology.	Interactive lectures. Classroom discussions Tutorials. Individual assignments. Group discussion. Lab-work. Self-learning activities. E-Videos. CLO survey	60%	Direct:74 Indirect:4.01	95.8 4.825	77.8 3.13
K3	Express in-depth knowledge and understanding of research methodology and inquiry techniques in the field of Biology	Interactive lectures. Classroom discussions Tutorials. Individual assignments. Group discussion. Lab-work. Self-learning activities. E-Videos.	60%	Direct:73.65 Indirect:4.15	85.6 4.95	83.4 3.865





CLO survey						
Skills						
S1	Apply broad integrated underlying theories, principles, and concepts in various contexts in Biology.	Interactive lectures. Classroom discussions Tutorials. Individual assignments. Group discussion. Lab-work. Self-learning activities. E-Videos. Field trips. CLO survey	60%	Direct:73.3 Indirect:4.37	75.4 4.83	79.6 4.11
S2	Practice methods of inquiry, investigation and research for complex issues and problems in Biology	Practice methods of inquiry, investigation and research for complex issues and problems in Biology. CLO survey	60%	Direct:86.8 Indirect:4.395	87.5 4.707	75 3.955
S3	Carry out various complex practical tasks and procedures related to Biology.	Carry out various complex practical tasks and procedures related to Biology. CLO Survey	60%	Direct:82.2 Indirect:4.4	88 4.85	84.3 4.67
S.4	Communicate in main forms and use of specialized digital technology and ICT tools to demonstrate an understanding of theoretical knowledge and transfer specialized knowledge, skills and complex ideas to a variety of audiences.	Communicate in main forms and use of specialized digital technology and ICT tools to demonstrate an understanding of theoretical knowledge and transfer specialized knowledge, skills and complex ideas to a variety of audiences CLO Survey	60%	Direct:84.8 Indirect:4.63	83 4.87	89.3 4.2
Values, autonomy, and responsibility						
V1	Show confidence and potential for leadership, long life learning and entrepreneurship	Individual assignments. Group discussion. Lab-work. Self-learning activities. E-Videos. Field trips. Micro-Project Presentation	60%	Direct:99 Indirect:4.9	100 5	100 4.52





		(individual and teamwork)				
V2	Consider risk assessment, and lab safety as a personal responsibility toward individuals and society.	Individual assignments. Group discussion. Lab-work. Self-learning activities. E-Videos. Field trips. Micro-Project Presentation (individual and teamwork)	60%	Direct:92.2 Indirect:4.94	92 4.6	94 4.61
V3	Work collaboratively and constructively, and lead diverse teams to perform a wide range of tasks with responsibility, and play a major role in joint work planning and evaluation	Individual assignments. Group discussion. Lab-work. Self-learning activities. E-Videos. Field trips. Micro-Project Presentation (individual and teamwork)	60%	Direct:98.2 Indirect:5	100 5	94 5

*Attach a separate report on the program learning outcomes assessment results for male and female sections and for each branch (if any).

Strengths:

- Students demonstrate significant knowledge related to the understanding of the principal, theories and concepts of Biology.
- Students show confidence and potential for leadership, long life learning and entrepreneurship.
- The learning outcome is satisfactory for higher level students.

Aspects that need improvement with priorities:

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2. Students Evaluation of Courses

Course Code	Course Title	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
101BIO	General Biology	12	100	4.19	The course evaluation survey should be implemented before the exam because their answers depend on their performance in the exam
		16	92	4.33	
		9	88	4.5	
211BIO	Cell Biology	10	100	4.33	
		49	89	4.4	
		12	84	4.61	
231MIC	Bacteriology	49	88	4.49	
		23	90	4.7	





Course Code	Course Title	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
214BOT	Plant Morph. & Anatomy	39	92	4.29	The course evaluation survey should be implemented before the exam because their answers depend on their performance in the exam
		45	90	5	
242BOT	Archegoniates	47	93	4.53	
		16	90	3.7	
		18	88	3.9	
251ZOO	Invertebrates	51	98	4.17	
		33	90	4.17	
		32	86	3.9	
222BIO	General Genetics	41	79	4.54	
		33	88	4.58	
		26	84	4.3	
232MIC	Virology	28	89	4.21	
		22	83	4.22	
		2	100	4.7	
252ZOO	Histology	44	94	4.03	
		34	87	3.95	
		22	90	4.7	
254ZOO	Chordata	58	100	4.16	
		30	90	4.16	
		26	90	3.73	
301BIO	Fund. of Ecology	12	100	4.5	
		34	92	4.03	
		34	84	4.69	
311BIO	Specimen Techniques	10	100	4.1	
		49	90	3.9	
		27	89	4.11	
331MIC	Phycology	34	98	3.73	
		22	90	3.73	
333MIC	Mycology & Plant Pathology	42	93	4.02	
		38	90	4.4	
341BOT		60	89	4.67	





Course Code	Course Title	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
	Plant Water & Soil Relations	34	84	4.69	The course evaluation survey should be implemented before the exam because their answers depend on their performance in the exam
351ZOO	Animal Physiology	32	96	4.2	
		52	92	4.39	
		34	92	3.96	
353ZOO	Marine Biology	44	97	4.57	
		38	88	4.71	
		28	90	3.96	
334MIC	Microbial Physiology	32	89	4.59	
		35	87	4.16	
		18	92	3.96	
342BOT	Taxonomy Flowering Plants	39	100	4.5	
		26	90	4.53	
344BOT	Plant Hormones	43	88	4.57	
		45	90	4.82	
		33	92	3.9	
352ZOO	Parasitology	18	92	3.96	
		30	90	3.78	
		22	92	3.96	
354ZOO	Immunology & Serology	37	93	4.27	
		24	88	4.35	
		23	87	4.16	
356ZOO	General Entomology	12	98	4.57	
		23	92	4.57	
		38	89	4.16	
411BIO	Molecular Biology	29	79	4.32	
		32	89	4.16	
		52	93	4.48	
431MIC	Industrial Microbiology	33	89	4.5	
		21	90	6.07	
		28	87	4.06	
433MIC	Medical Microbiology G194	55	94	4.5	
		28	87	4.16	
		34	90	4.19	





Course Code	Course Title	Number of Students Who Evaluated the Course	Percentage of Participants	Evaluation Results	Developmental Recommendations
441BOT	Plant Physiology	45	100	4.34	The course evaluation survey should be implemented before the exam because their answers depend on their performance in the exam
		34	92	4.57	
		25	90	4.0	
443BOT	Plant Ecology	31	91	4.09	
		38	93	4.21	
		27	87	3.96	
451ZOO	Endocrinology	29	95	4.25	
		51	88	4.73	
		34	89	4.01	
491BIO	Graduation Project	33	96	4.4	
		43	88	4.72	
402BIO	Biodiversity	45	95	3.9	
		34	90	4.16	
		38	93	4.23	
412BIO	Biotechnology	38	88	4.43	
		39	93	4.66	
		27	91	4.04	
432MIC	Environmental Microbiology	34	98	4.01	
		45	88	3.96	
		24	80	4.1	
442BOT	Economic Botany	52	93	4.48	
		38	82	4.33	
		29	88	4.1	
452ZOO	Embryology	29	100	4.21	
		51	92	4.38	
		43	90	4.1	
454ZOO	Animal Ecol. & Behaviour	35	100	4.23	
		29	87	4.15	
		32	89	3.98	
456ZOO	Med. & Econ. Entomology	58	90	4.39	
		41	86	4.39	
		32	87	3.98	

<https://docs.google.com/document/d/1YQXXNbRxbogUeKfxxUVMK4V4qk8VNrd/edit>



3. Students Evaluation of Program Quality

Evaluation Date:	Number of Participants:
Students Feedback	Program Response
<p>Strengths:</p> <p>*The students praised the performance of the faculty members:</p> <ul style="list-style-type: none"> - Faculty members have a good knowledge of the subjects they teach. - Faculty members have been enthusiastic - the students also praised the learning process regarding: <ul style="list-style-type: none"> * The program helped me in seeking and developing my knowledge in the field. * What I have learnt in this program will be important to my life. 	
<p>Areas of Improvement:</p> <p>* The data in PES survey assessment clearly indicate that the students responded in the same way to most surveyed items, which makes this data unusable to analyze the response of the students against each item.</p>	<p>The quality committee may need to revisit the relevance of the items in the survey, the time and the way the survey is conducted or alternatively may think of giving orientation about the importance of such a survey.</p>
<p>Suggestions for improvement:</p> <p>*Response of the students shows that there is low level of satisfaction in certain items:</p> <p>*Computer facilities were suitable for my needs</p> <p>*There were enough extracurricular activities such as sports and entertainment</p> <p>*Field training (including internship) has been useful in developing my skills</p>	<p>The department might be required to establish a committee to find out what causes the dissatisfaction and implement appropriate remedy.</p>

https://drive.google.com/drive/folders/1Z5FrDI_65Dkq2Kx1x--yNJJaNKSDxrwlS

4. Scientific research and innovation during the reporting year

Activities Implemented	Number
Published scientific research	38
Current research projects	4
conferences organized by the program	0
Seminars held by the program	0





Conferences attendees	5
Seminars attendees	0

Discussion and analysis of scientific research and innovation activities:

All performance indicators for scientific research increased significantly, whether the rate of published research, the citation rate, or the quality of scientific publishing journals

5. Community Partnership

Activities Implemented	Brief Description*
Activating the “I Need You” initiative (Alzheimer’s patients)	Activity was prepared by cooperation between community service and activity committees, duration was 2 hours on 19/09/2023, 6 students participated in this activity, and number of attendee was 100.
Activating mental health day	Activity was prepared by cooperation between community service and activity committees, duration was 1 hour on 10/10/2023, 8 students participated in this activity , number of attendee was 40.
Safe disposal of biological waste	Activity duration was 1 hour on 17/04/2024, number of attendee was 45.
Prevention of epidemic diseases	Activity was presented outside the college to high school students, duration was 1 hour on 22/01/2024, 4 students & 2 staff participated in this activity, and number of attendee was 20.
Prevention of epidemic diseases	Activity was presented outside the college to high school students, duration was 1 hour on 25/01/2024, 4 students & 2 staff participated in this activity, and number of attendee was 20.
Mental health day workshops	Activity was prepared activity committees, duration was 2 hours on 28/09/2023, 23 students participated in this activity, and number of attendee was 40.
National Day workshop	Activity was prepared activity committees, duration was 2 hours on 27/09/2023, 34 students participated in this activity, and number of attendee was 35.
A workshop on organic food	Activity was prepared activity committees, duration was 2 hours on 13/12/2023, 19 students participated in this activity, and number of attendee was 40.
A workshop on World Diabetes Day	Activity was prepared activity committees, duration was 2 hours on 06/12/2023, 30 students participated in this activity, and number of attendee was 40.
An initiative to improve community revitalization by activating the (Baladi application) platform	Activity was prepared activity committees, duration was 2 hours on 18/12/2023, 29 students participated in this activity, and number of attendee was 40.
Awareness activity entitled N(Cholera control)	Activity was prepared activity committees, duration was 2 hours on 27/12/2023, 7 students participated in this activity, and number of attendee was 35.

* including timing of implementation, number of participants, and outcomes.

Comment on community partnership activities**



11 activity were presented in community service inside and outside the college, 174 students & 3 staff were participated & number of beneficiary was 480.

** including overall evaluation of the program's performance in these activities (if any).

6. Other Evaluation (if any)

(e.g., independent reviewer, program advisory committee, and stakeholders (e.g., faculty members, alumni, and employers))

Alumni feedback

Evaluation method:	Date:	Number of Participants:
Summary of Evaluator Review		Program Response
<p>Strengths: Student's problem solving and development computer-based solution skills show positive trends. -working in a team under professional and ethical responsibilities.</p>		The survey report is satisfactory but still need to focus more to facilitate the students in developing cognitive and soft skills. Awareness and enhancement of the career through professional certification.
<p>Points for Improvements:</p> <p>Need to establish an active alumni-employment unit for improving the employability. -more training workshops should be arranged for the graduating students for learning and developing interpersonal.</p> <p>Suggestions for development: -Students must be introduced to the labor market -Extra budget for extra-curricular and community services, partnership with social work organization.</p>		<p>Department and college council need to set up a committee for establishing the required units in the department for the program</p> <p>Alumni meet in near future with final year students to share their experiences and guidance.</p>

C. Program Key Performance Indicators (KPIs)

Including the key performance indicators required by the NCAAA.

No	KPI	Targeted Value	Actual Value	Internal Benchmark	Analysis	New Target
1	Percentage of achieved indicators of the program operational plan objectives	90%	77%	90%	The actual value is less than the target and the internal benchmark.	90
2	Students' Evaluation of quality of learning experience in the program	4.2	3.75	3.77	The actual value is less than the target and the internal benchmark.	4.2
3	Students' evaluation of the quality of the course	4.2	4.2		This indicator achieved the target and exceeded the	4.3





				3	internal benchmark value.	
4	Completion rate (%)	90%	76%	22%		80
5	First-year students retention rate (%)	70%	52.27%	68 67%	This indicator did not achieve the target and exceeded the internal benchmark value.	20%
6	Students' performance in the professional and/or national examinations	15%	0	0	The indicator did not achieve the target value	10%
7	Graduates' employability and enrolment in postgraduate programs	5 5	a-1 b-5	NDA	The indicator did not achieve the target value	
8	Average number of students in the class	15:1	15:1	14 14	This indicator achieved the target and near to the internal benchmark value	20-25
9	Employers' evaluation of the program graduate's proficiency	5	5	NDA	This indicator achieved the target value	5
10	Students' satisfaction with the offered services	3.5	3.23	3.35	This indicator did not achieve the target and exceeded the internal benchmark value.	3.5
11	Ratio of students to teaching staff	16:1	16:1	16:1	This indicator achieved the target and benchmark value	15:1
12	Percentage of teaching staff distribution (%)	10% 15% 50% 15% 10%	Prof: 0 Assoc: 15% Assist: 75% Lecturer:10% TA: 0	Ph.D. = 40% Lecturer= 50% Others= 10%	This indicator is almost near to the target value	Prof: 10% Assoc: 15% Assist: 75% Lecturer:10%
13	Proportion of teaching staff leaving the program	0	0	0.10	This indicator achieved the target value	0
14	Percentage of publications of faculty members	50%	100%	78%	It is clear shown that the actual value exceed the target benchmarks, and it is satisfactory	100
15	Rate of published research per faculty member	1:1	38:15	5:9	The actual value exceed the target benchmarks	3:1
16	Citations rate in refereed journals per faculty member	450/10	181:15	35.9	This indicator did not achieve the target but exceeded the internal benchmark value.	250/10
17	Satisfaction of beneficiaries with the learning resources	4	3.91	4.3	This indicator did not achieve the target or the internal benchmark value.	4
Strategic Plan KPIs						
18	Occupation rate of classrooms and laboratories	20-25	15:1 13:1	14/40	This indicator value has clearly improved over the target value.	20-25
19	Satisfaction of faculty and staff with support services	4	3.92	3.98	This indicator did not achieve the target or the internal benchmark value.	4



20	Beneficiary satisfaction about IT services	3.7	4.01	4.29	The indicator value exceeded the target but not the internal benchmark value.	4.1
21	Percentage of awareness of rights and duties	4	3.9	3.57	The indicator value did not achieve the target but exceeded the internal benchmark value.	4
22	Satisfaction of faculty members about professional development.	4.0	4	3.43	This indicator achieved the target and exceeded the internal benchmark value.	4.1
23	Satisfaction of beneficiaries with administrative services.	4.2	4.2	4.22	This indicator achieved both the target and the internal benchmark value.	4.2
24	Average number of professional development activities completed by the faculty.	150	175 h	28	This indicator exceeded both the target and the internal benchmark value.	170
25	Total number of volunteer hours performed by university students.	420	312	8	This indicator did not achieve the target but exceeded the internal benchmark value.	450
26	Students' dropout rate from the program	20%	1.575%	1.83 3.33	This indicator exceeded both the target and the internal benchmark value.	0

Comments on the Program KPIs and Benchmarks results:

This report provides an analytical description based on the data provided acquired from the institutional systems. The tabulated data was visualized in graphical form and analyzed accordingly. On one hand, it is to compare and contrast the actual benchmark with internal and external benchmarks, consequently there will be a scope to set new target for the future. On other hand, the data got analyzed using two sets of variables i.e., male vs. female and main campus vs. branches. The provided values were tabulated using the data collected from the academic years 2021, 2022, and 2023. Main data sources include student, faculty, alumni, and employer surveys. Other sources include the main university student information system (e-register), and other related systems. The university has recently turned most of its services into digitalized systems linked and made available for colleges.

<https://drive.google.com/drive/folders/1dJIYYXQAoulhjZBGJdruvnQZ1Zp7RmkP>

D. Challenges and difficulties encountered by the program (if any)

Teaching	In the current year, the University College in Al-Darb moved to a new headquarters, and there was a shortage of laboratories, as well as an insufficient capacity of the laboratories for the number of female students.
Assessment	There was a problem with the employers' survey due to the difficulty of reaching sufficient numbers of employment to employ program graduates
Guidance and counseling	Identify and find the reasons (academic/health/psychological) for low GPAs of low achievers.





Learning Resources	Non availability of sufficient reference text books.
faculty	Lack of Professors
Research Activities	Lack of special research labs
Others	



Based on the reports of the department's committees and the improvement plans for each committee, and based on the performance indicators that did not achieve the target values, an improvement plan was built for the department.

E. Program development Plan

No.	Priorities for Improvement	Actions	Action Responsibility
1	Review and update the curriculum regularly based on the recent trends.	Review the courses based on the recent research trend.	Curriculum and planning committee
2	Enhance and Strengthen the Teaching methodologies of the faculties	Identify and strengthen the teaching methodologies	Learning Outcomes Committee
3	Update the labs with the latest equipment and tools	Check for the latest equipment and tools	Curriculum and planning committee
4	Provide training opportunities for students with the industry in the technical field	At a Periodicity of 1 to 2 Semester, Trainings are conducted by inviting professionals from Industry	Professional Development Committee
5			

- Attach any unachieved improvement plans from previous report.
- The annual program report needs to be discussed in department council

F. Approval of Annual Program Report

COUNCIL / COMMITTEE	
REFERENCE NO.	UCDBBI2501 
DATE:	15-8-2024

