ANNUAL REPORT
For
Medical Physics Program

Physics قسم الفيزياء Department

Faculty of Applied Science
Umm Al-Qura University

Physics Department, Faculty of Applied Science
Umm Al-Qura University, Makkah, Saudi Arabia
October, 2018

معالي مدير الجامعة
الدكتور عبد الله بن عمر بافيل

سعادة عميد الكلية
د./ حاتم الطس

سعادة وكيل الكلية
د./ لؤي الكاظمي

سعادة وكيلة الكلية لفرع الطالبات
د/ رجاء معتوق

سعادة وكيل الكلية للتطوير الجامعي
الدكتور/ فهد عبد الله الهاشمي

سعادة وكيل الكلية للشئون الاكاديمة
الدكتور/ حسين ابو الريش

سعادة وكيل الكلية للدراسات العليا
أ.د./ باسم حسين اصغر

سعادة وكيلة الكلية لشئون التعليم والتطوير
د/ بدرية الجحدلي

سعادة رئيس قسم الفيزياء
الدكتور/ فهد عبد الله الهاشمي

سعادة وكيلة القسم لفرع الطالبات
الدكتوره/ زينب مطر

مقدمة

الحمد لله رب العالمين والصلاة والسلام على سيدنا ونبينا محمد وعلى آله واصحابه والتابعين الى يوم الدين،

أنشئ قسم الفيزياء في عام 1385/1384 هـ الموافق 1965/1964م، كتوأم لقسم الرياضيات، وذلك عندما صدرت أول لائحة لكلية التربية بجامعة الملك عبد العزيز شطر مكة المكرمة، وقد تخرجت عدة دفعات على نظام التخصص المزدوج (فيزياء ورياضيات).

استمر العمل على هذا النظام لمدة عشر سنوات، حتى عام 1395/1394هـ حيث تم فصل قسم الفيزياء عن قسم الرياضيات، واصبح قسما قائما بذاته يمنح درجة البكالوريوس في الفيزياء والفيزياء الطبية.

و في عام 1397/1396هـ، ادخل نظام الساعات المعتمدة على جامعة الملك عبد العزيز شطر مكة المكرمة، وأصبح القسم يقدم مقرراته وفقا لنظام الساعات المعتمدة. ويمنح درجة البكالوريوس في الفيزياء. وفى عام 1401/1400 هـ تأسست جامعة أم القرى بمكة المكرمة، ثم انشئت كلية العلوم التطبيقية واصبح القسم تابعا لها. وأصبح يمنح درجة البكالوريوس في الفيزياء و الفيزياء الطبية.

وهناك ثلاث خطط دراسية من أهم الخطط بالنسبة للقسم، وهى الخطة 19، والخطة 33، والخطة 37، والأخيرة هي الأحدث وهى قيد التنفيذ الأن، وفيما يلى نستعرض توزيع المقررات وتوصيف البرنامج وتوصيف المقررات لبرنامج الفيزياء الخطة 37.

وفقنا الله وإياكم الى ما يحبه و يرضاه ،،،

قسـم الفيزياء

Physics Department, Faculty of Applied Science
Umm Al-Qura University, Makkah, Saudi Arabia
October, 2018

Program Eligibility: The program is to submit the two most recent APRs as part of the requirements for program eligibility using the NCAAA Template.

Post Accreditation: The program is required to annually complete an APR. The APR is to document a complete academic year.

APR's are prepared by the program coordinator in consultation with faculty teaching in the program. The reports are submitted to the head of department or college, and used as the basis for any modifications or changes in the program. The APR information is used to provide a record of improvements in the program and is used in the Self Study Report for Programs (SSRP) and by external reviews for accreditation.

Annual Program Report

1. Institution**:** Umm Al-Qura University Date of Report: 3/2/1440
2. College/ Department: Faculty of Applied Science, Physics Department
3. Dean: Hatem Altass
4. List all branches/locations offering this program 1. Main Campus (Abdia)_for males 2.Alzaher Campus for Females

A. Program Identification and General Information

Program title and code: **B. Sc. Medical Physics**
Name and position of person completing the APR: Staff members
Academic year to which this report applies. 1438-1439 H (2017-2018)

B- Statistical Information

1. Number of students who started the program in the year concerned: 35

2. (a) Number of students who completed the program in the year concerned: 27

Completed the final year of the program: 27

Completed major tracks within the program (if applicable):

Title……No

Title……No

Title……No

Title…… .No

2. (b) Completed an intermediate award specified as an early exit point (if any)

Not Applicable

3. Apparent completion rate.

(a) Percentage of students who completed the program, 80%

(Number shown in 2 (a) as a percentage of the number that started the program in that student intake.)

(b) Percentage of students who completed an intermediate award (if any) N/A

(e.g. Associate degree within a bachelor degree program)

(Number shown in 2 (b) as a percentage of the number that started the program leading to that award in that student intake).

Not Applicable

Comment on any special or unusual factors that might have affected the apparent completion rates (e.g. Transfers between intermediate and full program, transfers to or from other programs).

4. Enrollment Management and Cohort Analysis (Table 1)

Table 1. Expected intake of students (Male section only).

	Expected	Actual intake
2012-2013	**100**	**10**
2013-2014	**100**	**12**
2014-2015	**100**	**17**
2015-2016	**100**	**56**
2016-2017	**100**	**(121 Male only) ***
2017-2018	**100**	**(106 Male only)***

Table 2. The statistics of the alumni number of the Medical Physics students (M/F) since (1433-1437).

Graduation Year	Semester	Male students	Female students	Total (F+M)
1438-1439	Summer	10	1	11
	Second Term	15	1	16
	First Term	4	2	6
	Total	29	4	33
1437-1438	Summer	2	1	3
	Second Term	1	1	2
	First Term	11	0	11
	Total	14	2	16
1436-1437	Summer	4	45	49
	Second Term	6	74	80
	First Term	6	19	25
	Total	23	164	154
1435-1436	Summer	11	58	69
	Second Term	5	74	79
	First Term	7	32	39
	Total	23	164	187
1434-1435	Summer	18	46	64
	Second Term	17	63	80
	First	6	18	24

	Term			
	Total	**41**	**127**	**168**
1433-1434	**Summer**	**9**	**36**	**45**
	Second term	**4**	**16**	**20**
	First term	**6**	**12**	**18**
	Total	**19**	**64**	**83**

* The alumni number includes the graduates (M/F) for both 1419 and 1433.H study plan

C. Program Context

1.Significant changes within the institution affecting the program (if any) during the past year. No significant changes **Implications for the program**
2. Significant changes external to the institution affecting the program (if any) during the past year. No significant changes **Implications for the program**

D. Course Information Summary:

1. Course Results. Describe and analyze how the individual NCAAA "Course Reports" are utilized to assess the program and to ensure ongoing quality assurance (eg. Analysis of course completion rates, grade distributions, and trend studies.)

(a.) Describe how the individual course reports are used to evaluate the program.

Course reports contain summaries of objectives of each course, covered items, non-covered items, completion and success percentages and learning outcomes. It also contains the used methods of teaching, recommendations of the professor.

The departmental committee reviews course reports periodically and summarizes the feedback items for each course. The collected feedback points (recommendations and strengths) of course reports are taken into considerations in the preparation of the program report

(b.) Analyze the completion rates, grade distributions, and trends to determine strengths and recommendations for improvement.

(1.) Completion rate analysis:

2.) Grade distribution analysis:

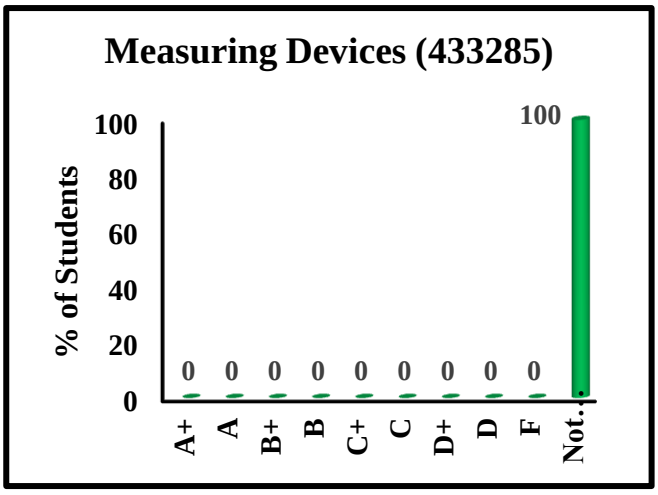
(3.) Trend analysis (a study of the differences, changes, or developments over time; normally several semesters or years):

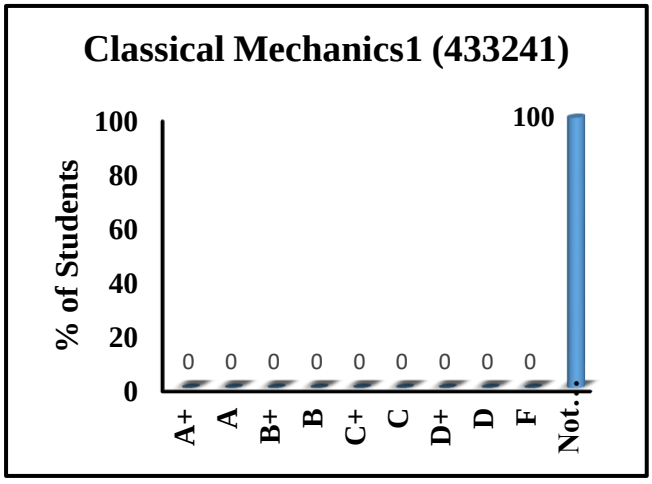
First Semester 2017-2018

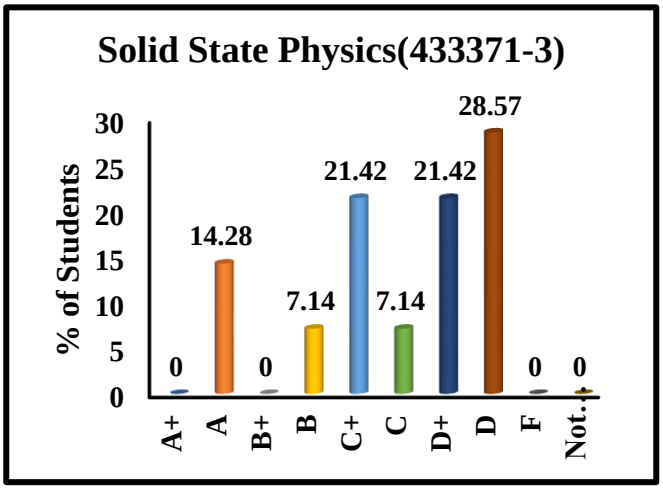
Trend Analysis for the Courses of The medical physics program Offered in the First Semester (381) 2017-2018 Plan 19 (Zaher Campus)

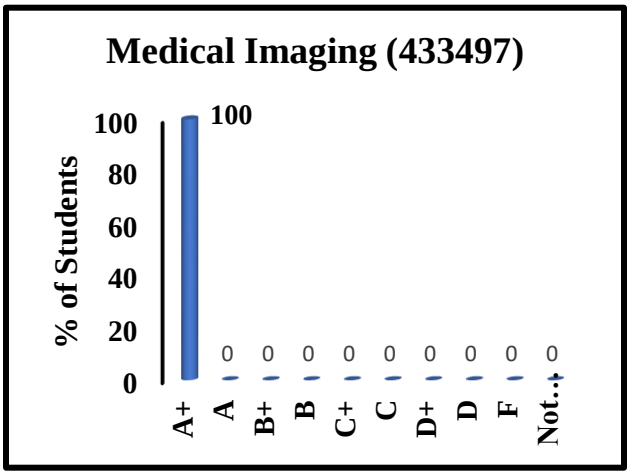
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented grades' distribution for each course.

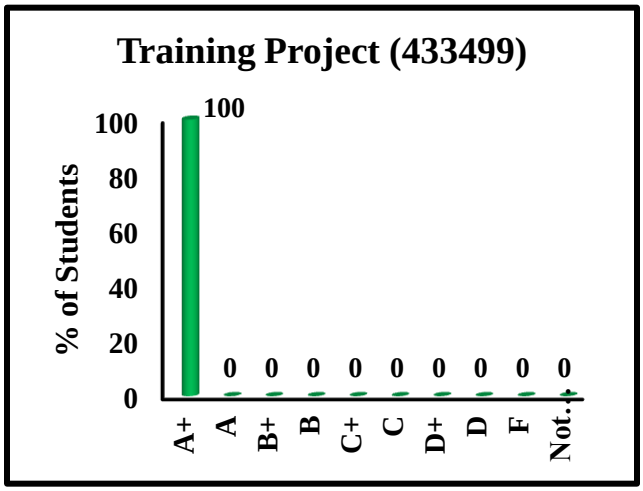
No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	Not complete	Complete	Sum
1	433241	Classical Mechanics1	0	0	0	0	0	0	0	0	1	0	1
2	433285	Measuring Devices	0	0	0	0	0	0	0	0	1	0	1
3	433344	Quantum Mechanics1	0	0	0	0	0	0	1	1	2	2	4
4	433371	Solid State Physics1	0	2	0	1	3	1	3	4	0	14	14
5	433391	Medical Physics	1	0	0	0	1	0	0	0	0	2	2
6	433483	Computer in Medicine	2	0	0	0	0	1	0	0	0	3	3
7	433494	Radioisotopes in Medicine	0	0	0	0	0	0	0	1	0	1	1
8	433490	Clinical Physics	1	1	0	0	1	0	0	0	1	3	4
9	433497	Medical Imaging	0	0	0	0	1	0	0	0	0	1	1
10	433499	Field Training	2	0	0	0	0	0	0	0	0	2	2

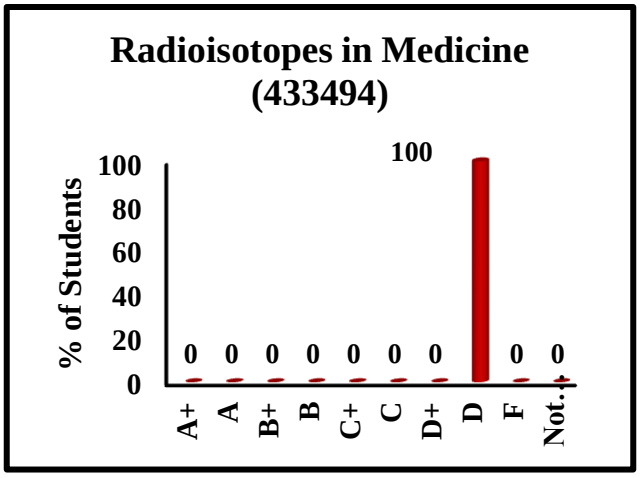

Measuring Devices (433285)
% of Students
100
80
60
40
20
0
0 0 0 0 0 0 0 0 0 100
A+ A B+ B C+ C D+ D F Not...

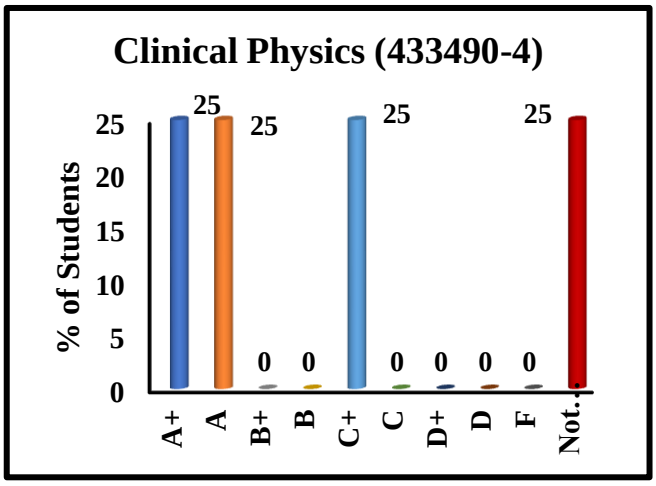

Classical Mechanics1 (433241)
% of Students
100
80
60
40
20
0
0 0 0 0 0 0 0 0 0 100
A+ A B+ B C+ C D+ D F Not...

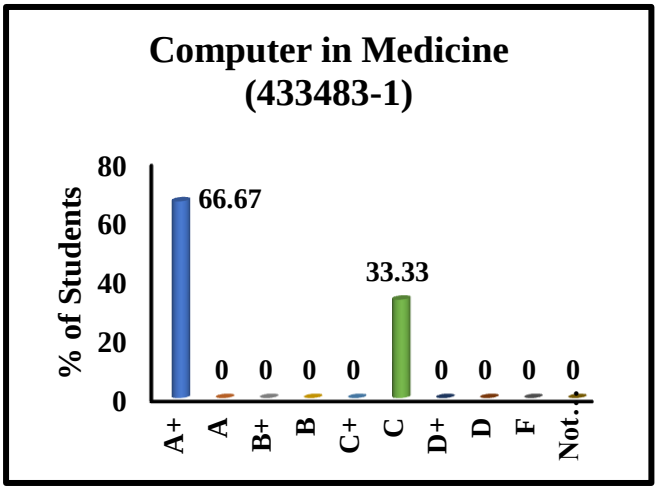

Solid State Physics(433371-3)
% of Students
30
25
20
15
10
5
0
0 14.28 0 7.14 21.42 7.14 21.42 28.57 0 0
A+ A B+ B C+ C D+ D F Not...

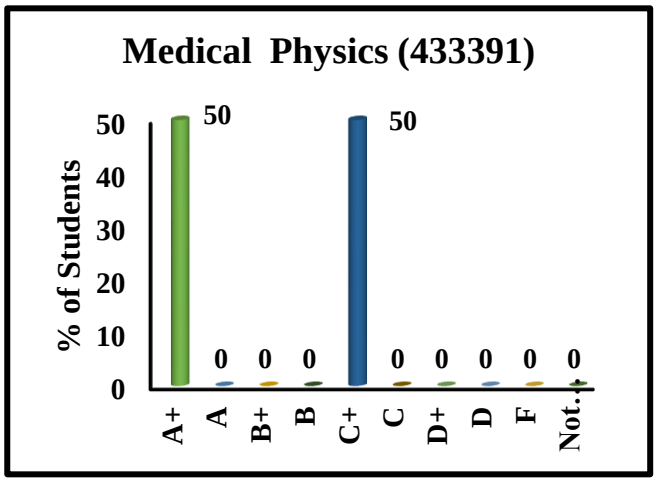

Medical Imaging (433497)
% of Students
100
80
60
40
20
0
100 0 0 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not...

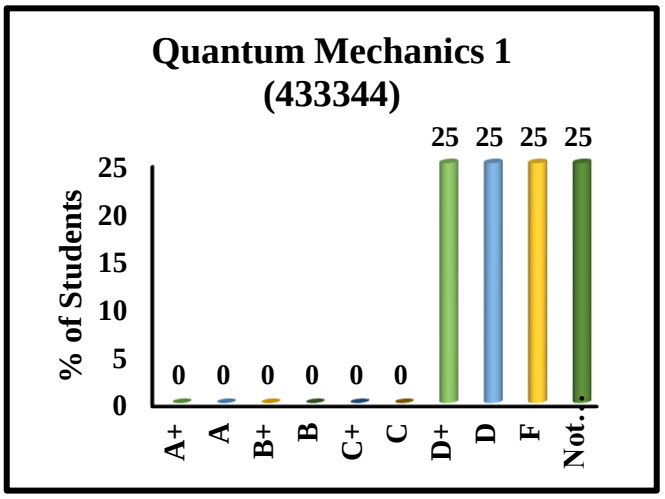

Training Project (433499)
% of Students
100
80
60
40
20
0
100
0 0 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not.+


Radioisotopes in Medicine (433494)
% of Students
100
80
60
40
20
0
100
0 0 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not.+


Clinical Physics (433490-4)
% of Students
25
20
15
10
5
0
25 25 25 25
0 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not.+


Computer in Medicine (433483-1)
% of Students
80
60
40
20
0
66.67
33.33
0 0 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not.+





The The figures represent the distribution of the percent of the results for all courses offered in the first semester (2017-2018) for The medical physics program (plan 19)

The causes of failing percent (100%) for both classical mechanics1 and measurement devices is that only one student started the course and did not complete it.

The percent of students passing 433344 course is 50%, since 4 students started the course but two of them could not complete the course as one of them denied and the other failed

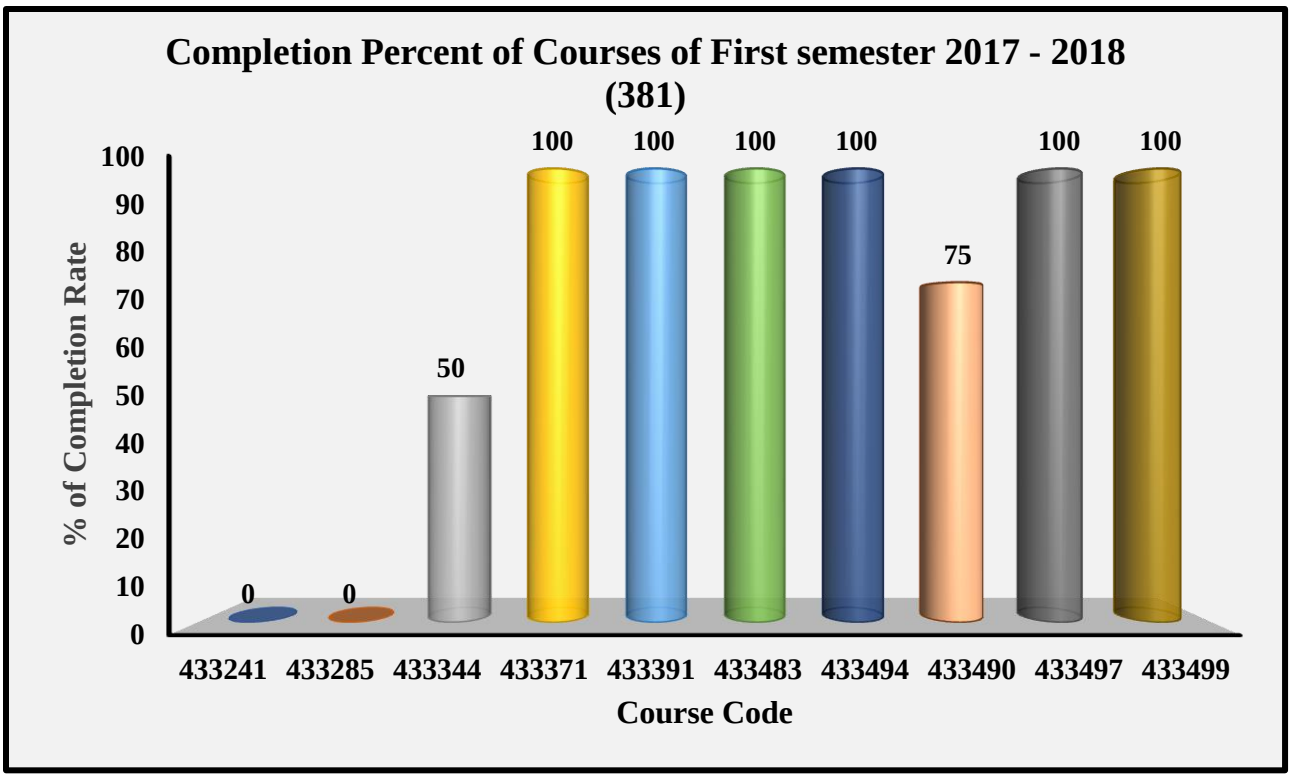
The causes of high success rate (100%):

- Plan 19 is a closed plan and few students (up to 3 students) are still in progress to complete their B.Sc.
- In course 403499, only two students started and completed this course.

Assessment of the Courses' Results of The medical physics program Offered in the First Semester (381) 2017-2018

Zaher Campus

No.	Course Code	Course Title	% of Passing Students	Remarks
1	433241	Classical Mechanics1	0	No of students start = 1 No. of not complete = 1
2	433285	Measuring Devices	0	No of students start = 1 No. of not complete = 1
3	433344	Quantum Mechanics1	50	No of students start = 4 No. of not complete = 2
4	433371	Solid State Physics1	100	No of students = 14
5	433391	Medical Physics	100	No of students = 2
6	433483	Computer in Medicine	100	No of students = 3
7	433494	Radioisotopes in Medicine	100	No of students = 1
8	433490	Clinical Physics	75	No of students start = 4 No. of not complete = 1
9	433497	Medical Imaging	100	No of students = 1
10	433499	Training Project	100	No of students = 2



The above figure represents the percent of passing students for each course of the The medical physics program offered in the first semester of academic year 2017–2018. However, most of the results showed an acceptable distribution of different grades reflecting the individual differences between students, the following remarks are recorded in some courses' results:

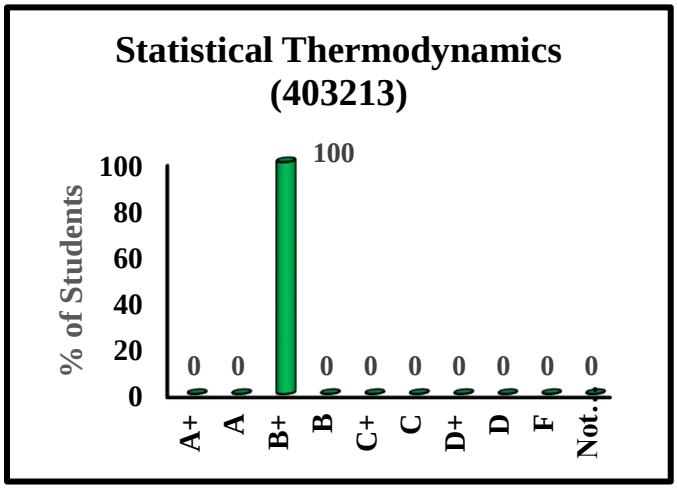
- The percent of students completed specialized medical physics courses are higher than 85% and in many medical physics courses is 100% since courses are related to the student practice in the field.
- Of course 433344, the percent of passing students was 50 %, since 4 students started the course and two of them could not pass the course.
- In courses 433241 and 433285, the percent of passing students was 0%, since one student started the course but could not complete it.

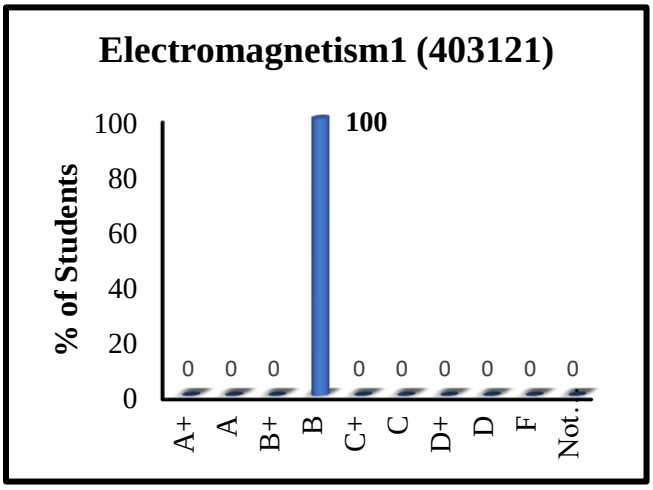
Trend Analysis for the Courses of The medical physics program Offered in the First Semester (381) 2017-2018 Plan 19

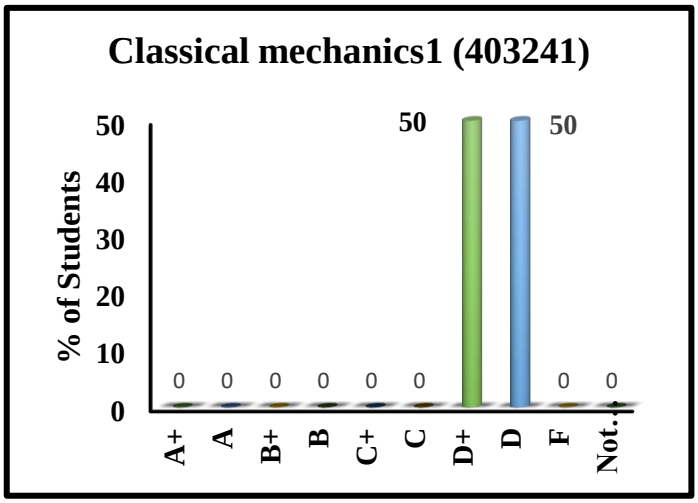
(Abdeia Campus)

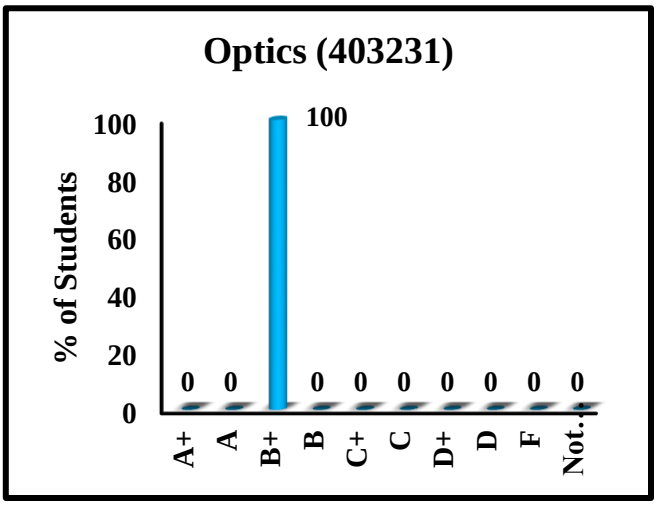
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented grades' distribution for each course.

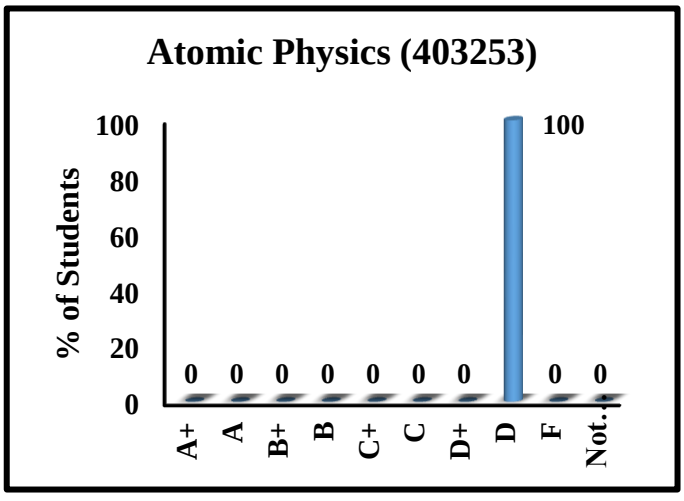
No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	Not complete	Complete	Sum
1	403121	Electromagnetism1	0	0	0	1	0	0	0	0	0	1	1
2	403213	Statistical Thermodynamics	0	0	1	0	0	0	0	0	0	1	1
3	403231	Optics	0	0	1	0	0	0	0	0	0	1	1
4	403240	Methods of Theoretical Physics1	0	0	0	0	0	0	1	0	0	1	1
5	403241	Classical mechanics1	0	0	0	0	0	0	1	1	0	2	2
6	403253	Atomic Physics	0	0	0	0	0	0	0	2	0	2	2
7	403285	Measurement Devices	0	0	1	0	0	1	0	0	0	2	2
8	403244	Quantum Mechanics1	0	0	1	0	0	1	2	0	1	4	5
9	403371	Solid State1	0	0	0	0	0	1	1	0	0	2	2
10	403382	Manufacturing Workshop	0	1	1	0	0	1	0	0	1	3	4
11	403383	Computer	0	0	0	0	0	1	0	0	0	1	1
12	403391	Medical physics	0	0	1	0	0	0	0	0	0	1	1
13	403423	Electronics	0	0	0	0	0	0	1	2	0	3	3

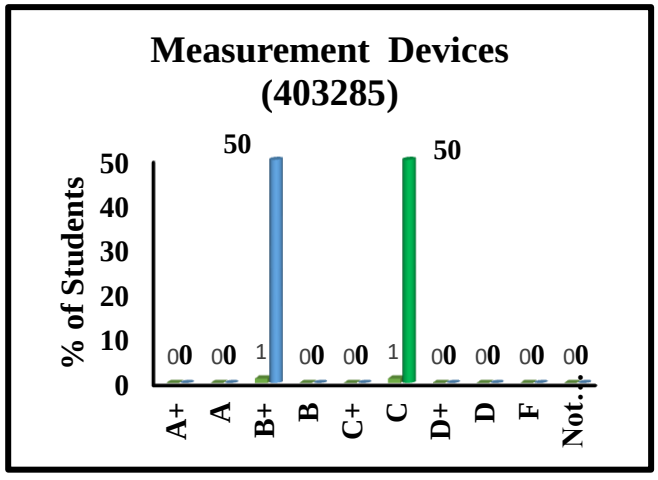

Statistical Thermodynamics (403213)
% of Students
100
80
60
40
20
0
0 0 100 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not..

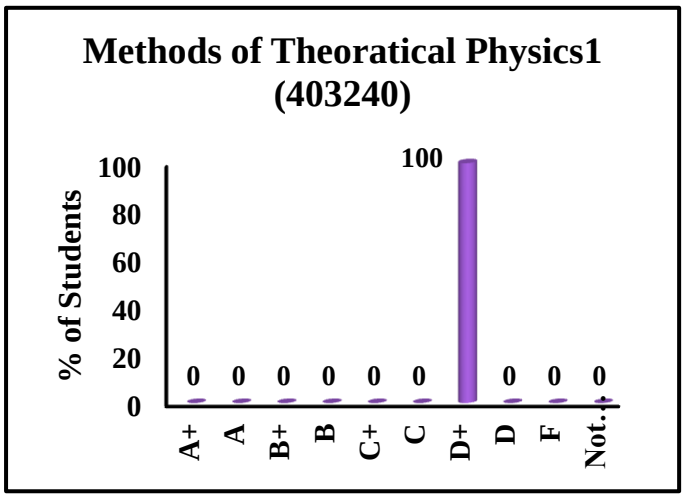

Electromagnetism1 (403121)
% of Students
100
80
60
40
20
0
0 0 0 100 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not..

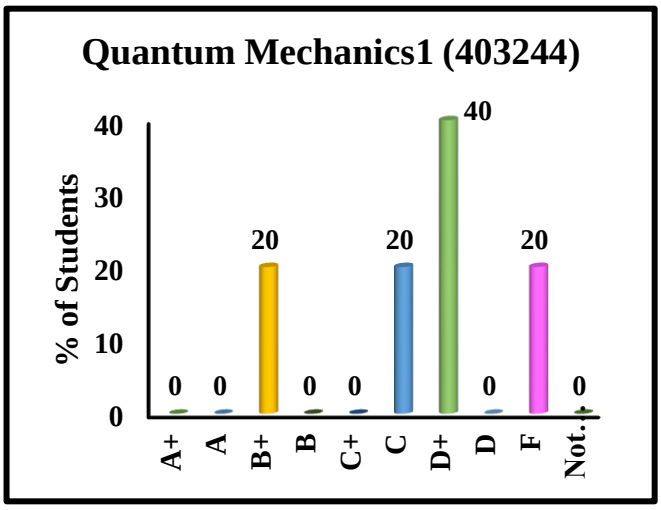

Classical mechanics1 (403241)
% of Students
50
40
30
20
10
0
0 0 0 0 0 0 50 50 0 0
A+ A B+ B C+ C D+ D F Not..

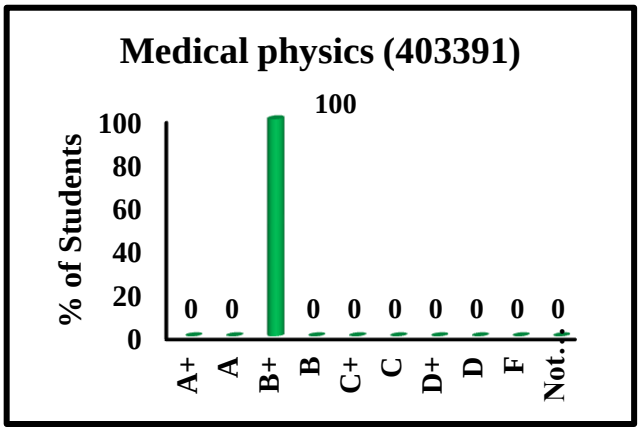

Optics (403231)
% of Students
100
80
60
40
20
0
0 0 100 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not..

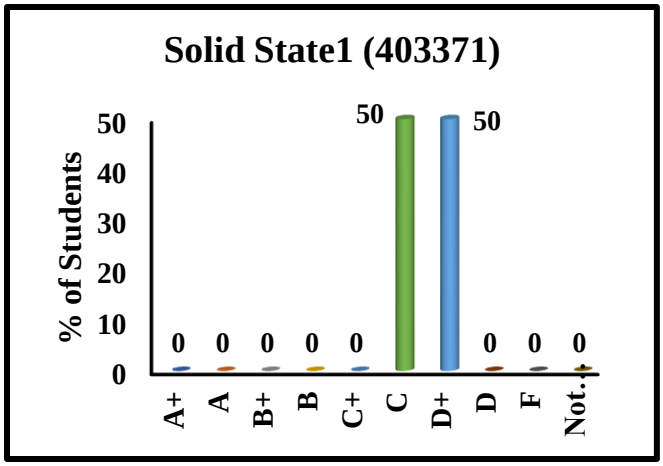

Atomic Physics (403253)
% of Students
100
80
60
40
20
0
0 0 0 0 0 0 0 100 0 0
A+ A B+ B C+ C D+ D F Not..

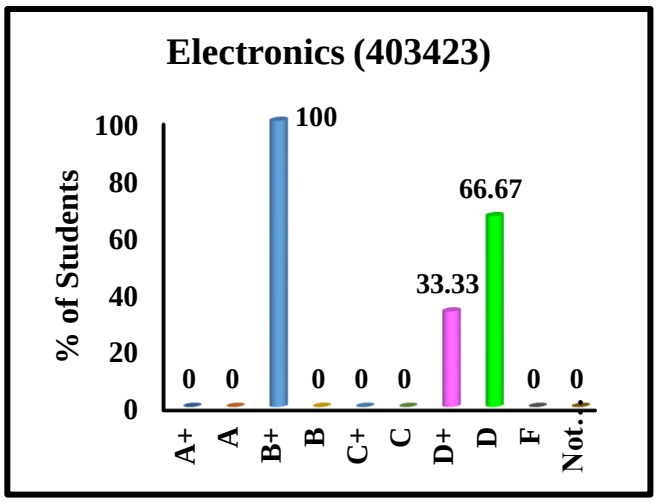

Measurement Devices (403285)
% of Students
50
40
30
20
10
0
0 0 1 0 0 1 0 0 0 0
A+ A B+ B C+ C D+ D F Not..

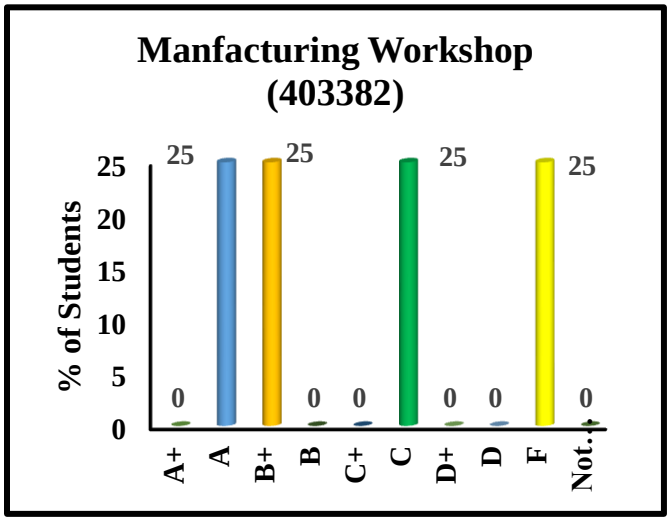

Methods of Theoratical Physics1 (403240)
% of Students
100
80
60
40
20
0
0 0 0 0 0 0 100 0 0 0
A+ A B+ B C+ C D+ D F Not..


Quantum Mechanics1 (403244)
% of Students
40
30
20
10
0
0 0 20 0 0 20 40 0 20 0
A+ A B+ B C+ C D+ D F Not..


Medical physics (403391)
% of Students
100
80
60
40
20
0
0 0 100 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D F Not..


Solid State1 (403371)
% of Students
50
40
30
20
10
0
0 0 0 0 0 50 50 0 0 0
A+ A B+ B C+ C D+ D F Not..


Electronics (403423)
% of Students
100
80
60
40
20
0
0 0 100 0 0 0 33.33 66.67 0 0
A+ A B+ B C+ C D+ D F Not..


Manfacturing Workshop (403382)
% of Students
25
20
15
10
5
0
0 25 25 0 0 25 0 0 25 0
A+ A B+ B C+ C D+ D F Not..

The figures represent the distribution of the percent of the results for all courses offered in the first semester (2017-2018) for The medical physics program (plan 19)

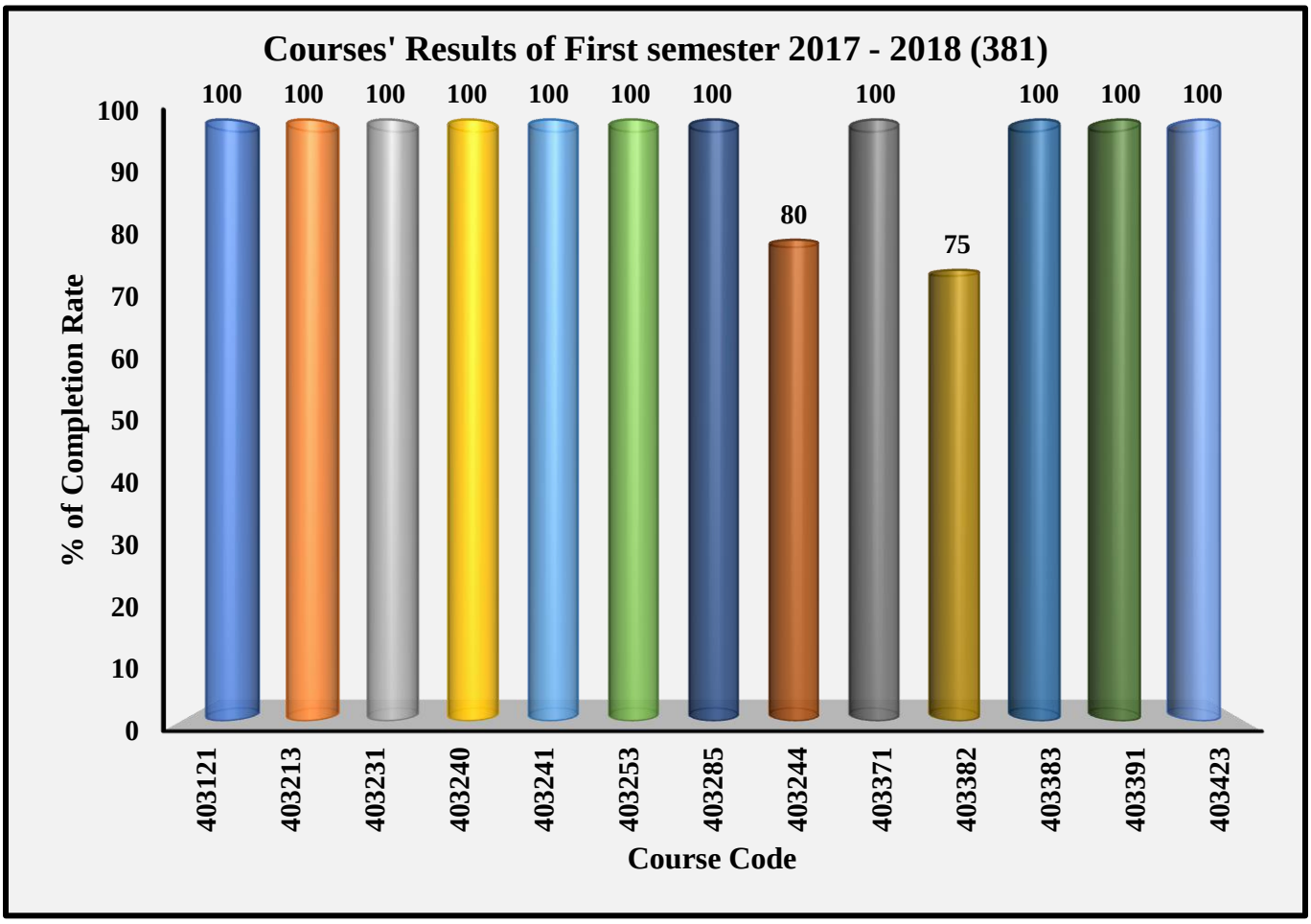
The causes of high success rate (100%):

- Plan 19 is a closed plan and few students (up to 3 students) are still in progress to complete their B.Sc.
- In course 403121, 403213, 403231, 403383, and 403391, only one student started and completed these courses.

Assessment of the Courses' Results of The medical physics program Offered in the First Semester (381) 2017-2018 Abdeia Campus

No.	Course Code	Course Title	% of Passing Students	Remarks
1	403121	Electromagnetism1	100	No of students = 1
2	403213	Statistical Thermodynamics	100	No of students = 1
3	403231	Optics	100	No of students = 1
4	403240	Methods of Theoretical Physics1	100	No of students = 1
5	403241	Classical mechanics1	100	No of students = 2
6	403253	Atomic Physics	100	No of students = 2
7	403285	Measurement Devices	100	No of students = 2
8	403244	Quantum Mechanics1	80	No of students start =5 No. of not complete = 1
9	403371	Solid State1	100	No of students =2
10	403382	Manufacturing Workshop	75	No of students start = 4 No. of not complete = 1

11	403383	Computer	100	No of students = 1
12	403391	Medical physics	100	No of students = 1
13	403423	Electronics	100	No of students = 3



The above figure represents the percent of passing students for each course of the medical physics program offered in the first semester of academic year 2017–2018. However, most of the results showed an acceptable distribution of different grades reflecting the individual differences between students, the following remarks are recorded in some courses' results:

- In course 403121, 403213, 403231, 403383, and 403391, only one student started and completed these courses in addition to are the relation of these courses to the student practice in the field.

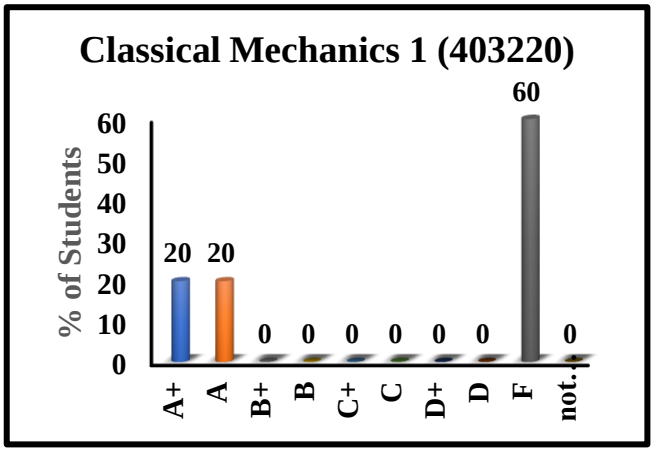
Trend Analysis for the Courses of The medical physics program Offered in the First Semester (381) 2017-2018 Plan 33

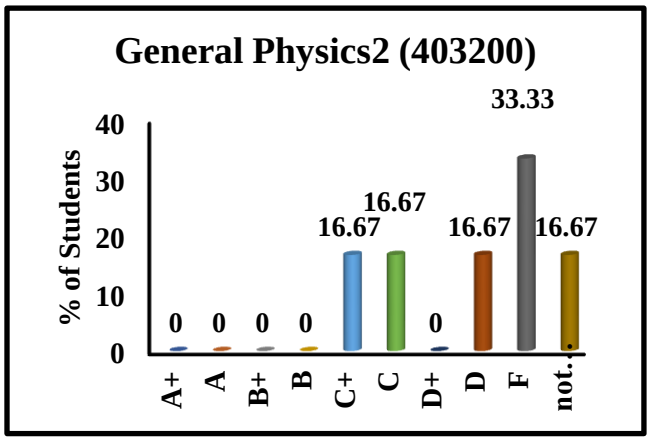
(Abdeia Campus)

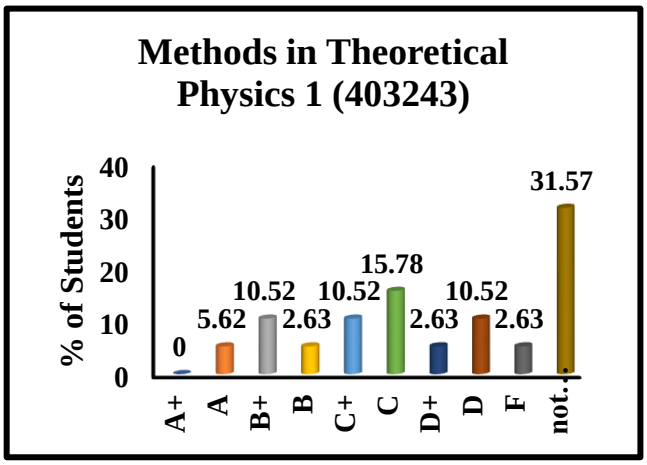
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented grades' distribution for each course.

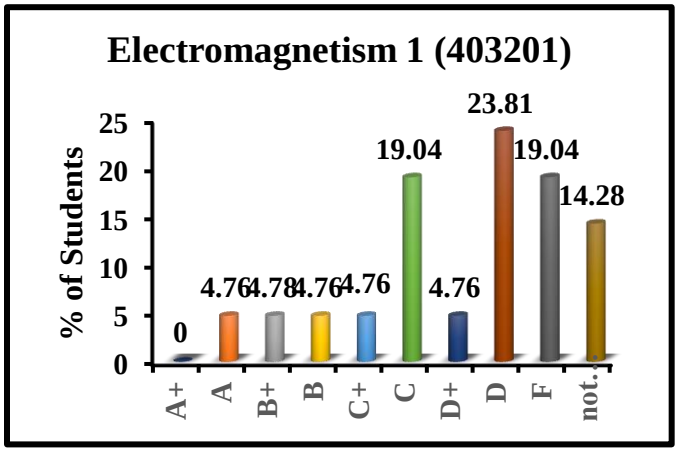
No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	F	Not complete	Complete	Sum
1	403200	General Physics 2	0	0	0	0	1	1	0	1	2	1	3	6
2	403201	Electromagnetism 1	0	1	1	1	1	4	1	5	4	3	14	21
3	403220	Classical Mechanics 1	1	1	0	0	0	0	0	0	3	0	2	5
4	403243	Methods in Theoretical Physics 1	0	1	2	1	2	3	1	2	1	6	12	19
5	403244	Methods in Theoretical Physics 2	3	0	2	0	0	0	0	0	0	0	5	5
6	403344	Quantum Mechanics (1)	0	0	0	0	0	0	0	4	3	0	4	7
7	403350	Modern Physics	1	0	2	0	2	2	2	2	4	0	11	15
8	403370	Solid State 1	1	7	6	8	4	4	1	2	0	1	33	34
9	403381	Laser in Medicine	0	0	1	1	0	1	1	8	6	2	12	20
10	403383	Health Physics	1	1	0	0	1	0	1	7	6	0	11	17
11	403384	Physics of Radiation Effect	0	0	1	0	4	4	1	1	1	0	11	12
12	403385	Medical Radiation Physics 1	0	0	0	0	0	0	0	3	3	0	3	6
13	403386	Physics of Radiation Therapy 1	0	3	3	6	1	1	0	0	0	0	14	14
14	403388	Radiation Protection	0	0	0	0	0	0	2	9	1	0	11	12
15	403389	Physics of Medical Imaging	0	0	0	0	0	0	1	8	0	0	9	9
16	403390	Physics of Ultrasound in Medicine	0	0	1	2	0	1	0	0	0	0	4	4
17	403391	Computer in Medicine	**1**	0	1	1	1	0	1	1	0	0	6	6

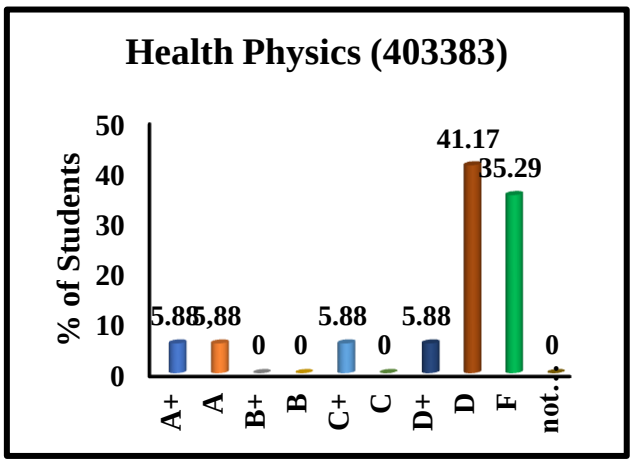
18	403492	Medical Radiation Physics 2	0	0	0	0	0	0	1	2	0	0	3	3
19	403493	Physics of Radiation therapy 2	1	1	0	0	3	4	3	6	2	0	18	20
20	403495	Nuclear Medicine	2	0	3	6	1	1	0	0	0	0	13	13
21	403496	Physics of Biomaterials	6	4	3	1	5	3	1	2	1	0	25	26

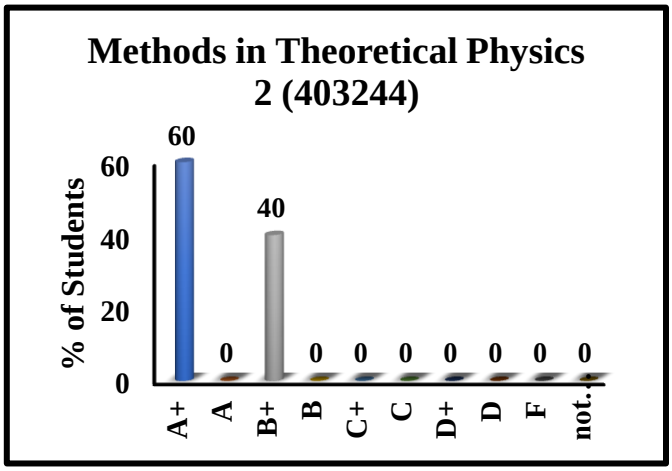


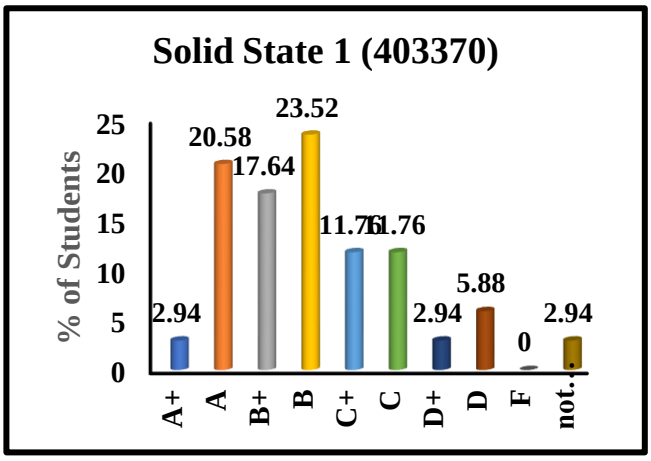


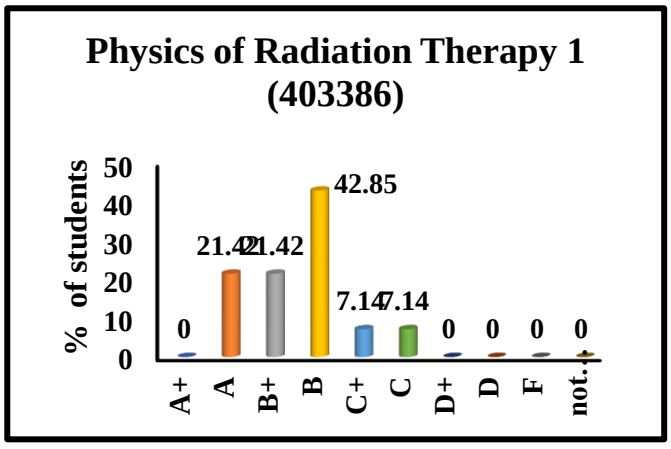


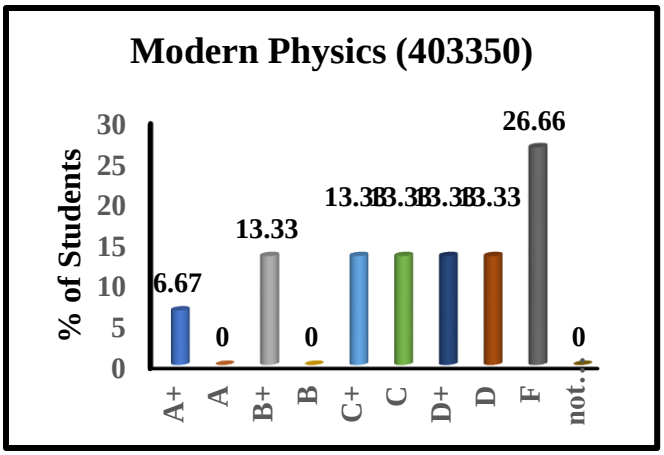


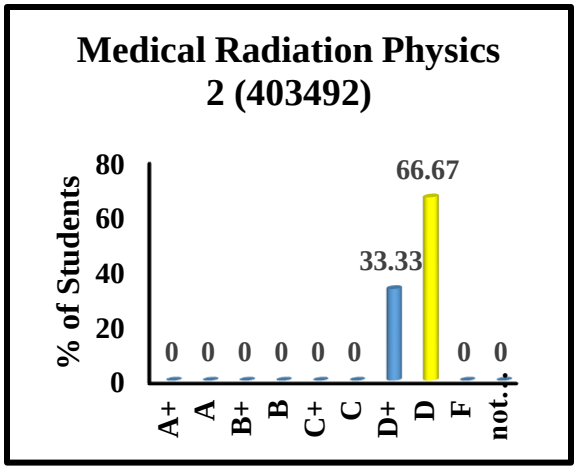

Health Physics (403383)
% of Students
50
40
30
20
10
0
5.88
5.88
0
0
5.88
0
5.88
41.17
35.29
0
A+
A
B+
B
C+
C
D+
D
F
not..

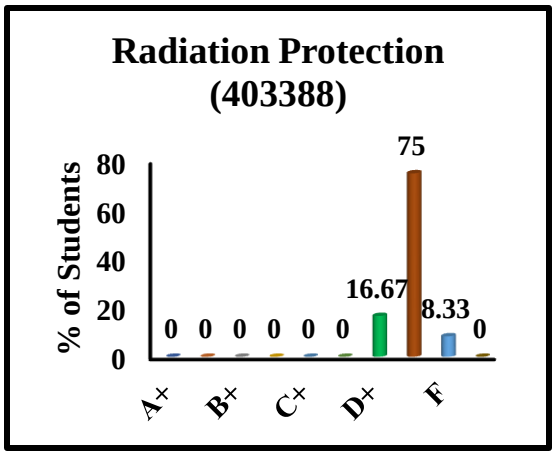

Methods in Theoretical Physics 2 (403244)
% of Students
60
40
20
0
60
0
40
0
0
0
0
0
0
0
A+
A
B+
B
C+
C
D+
D
F
not..

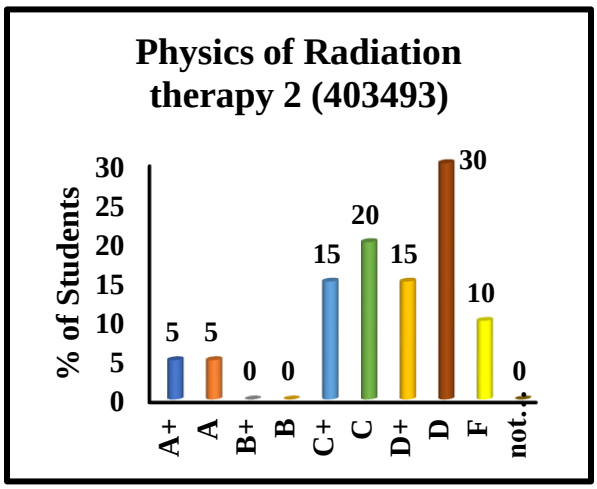

Solid State 1 (403370)
% of Students
25
20
15
10
5
0
2.94
20.58
17.64
23.52
11.76
11.76
2.94
5.88
0
2.94
A+
A
B+
B
C+
C
D+
D
F
not..

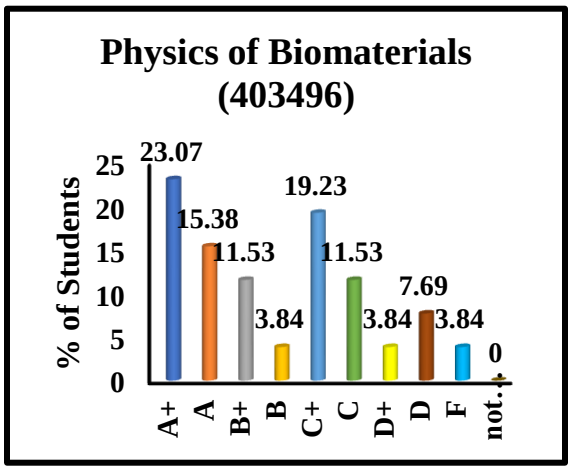

Physics of Radiation Therapy 1 (403386)
% of students
50
40
30
20
10
0
0
21.42
21.42
42.85
7.14
7.14
0
0
0
0
A+
A
B+
B
C+
C
D+
D
F
not..

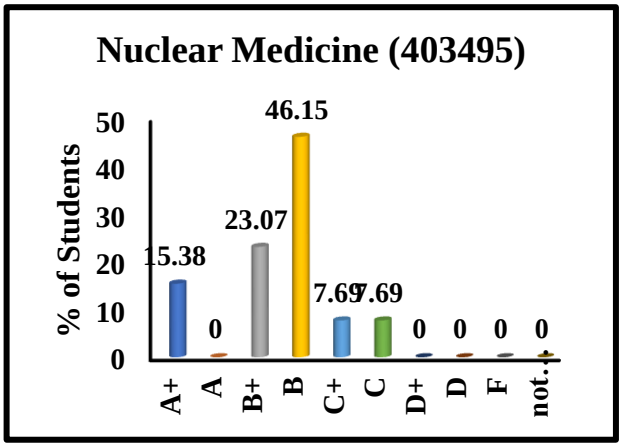

Modern Physics (403350)
% of Students
30
25
20
15
10
5
0
6.67
0
13.33
0
13.33
13.33
13.33
13.33
26.66
0
A+
A
B+
B
C+
C
D+
D
F
not..

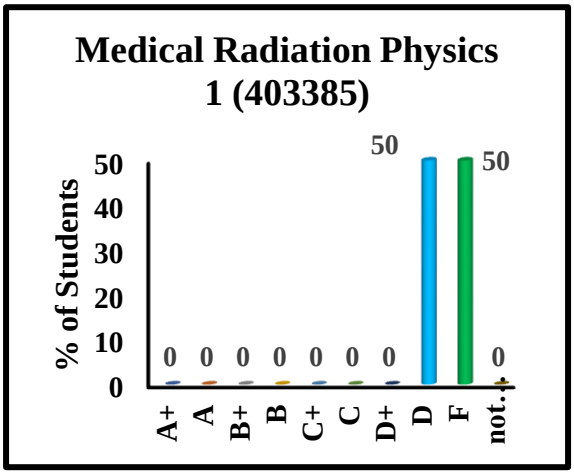

Medical Radiation Physics 2 (403492)
% of Students
80
60
40
20
0
0 0 0 0 0 0 33.33 66.67 0 0
A+ A B+ B C+ C D+ D F not..+

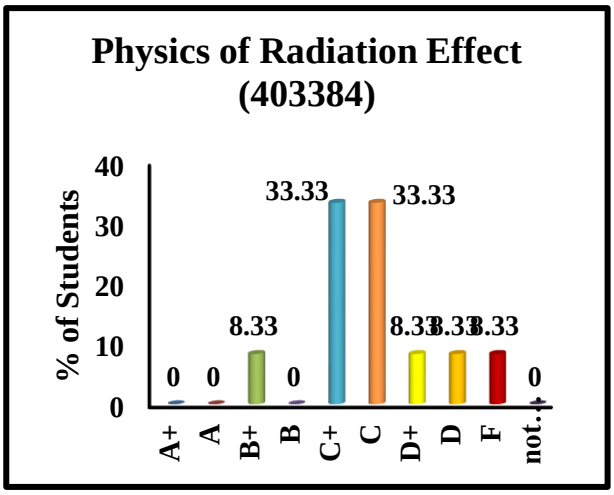

Radiation Protection (403388)
% of Students
80
60
40
20
0
0 0 0 0 0 0 16.67 75 8.33 0
A+ B+ C+ D+ F

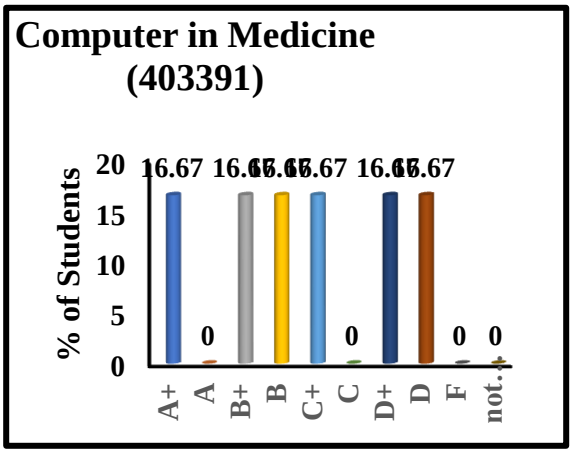

Physics of Radiation therapy 2 (403493)
% of Students
30
25
20
15
10
5
0
5 5 0 0 15 20 15 30 10 0
A+ A B+ B C+ C D+ D F not..+

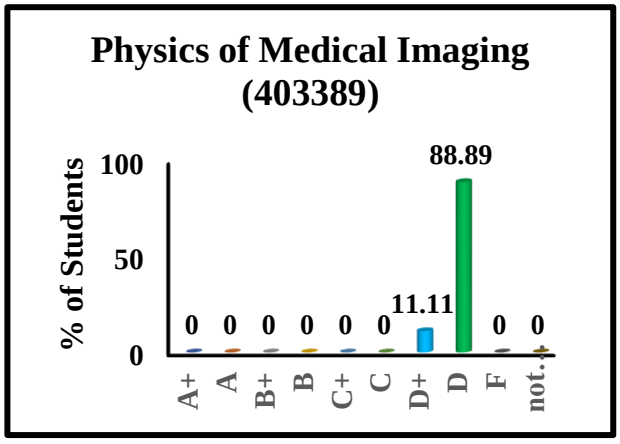

Physics of Biomaterials (403496)
% of Students
25
20
15
10
5
0
23.07 15.38 11.53 3.84 19.23 11.53 3.84 7.69 3.84 0
A+ A B+ B C+ C D+ D F not..+

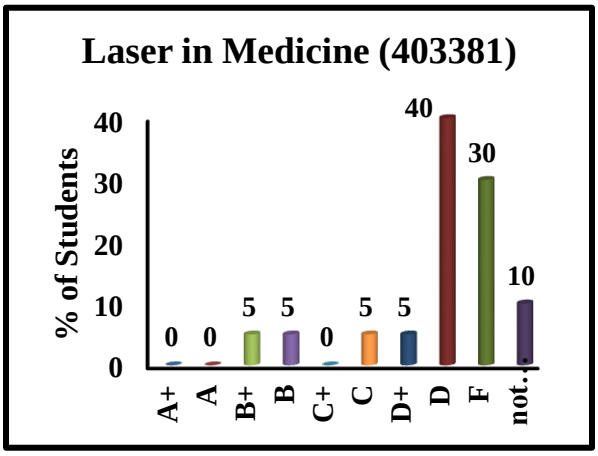

Nuclear Medicine (403495)
% of Students
50
40
30
20
10
0
15.38
0
23.07
46.15
7.69
7.69
0
0
0
0
A+
A
B+
B
C+
C
D+
D
F
not..+


Medical Radiation Physics 1 (403385)
% of Students
50
40
30
20
10
0
0
0
0
0
0
0
0
50
50
0
A+
A
B+
B
C+
C
D+
D
F
not..+


Physics of Radiation Effect (403384)
% of Students
40
30
20
10
0
0
0
8.33
0
33.33
33.33
8.33
8.33
8.33
0
A+
A
B+
B
C+
C
D+
D
F
not..+


Computer in Medicine (403391)
% of Students
20
15
10
5
0
16.67
0
16.67
16.67
16.67
0
16.67
16.67
0
0
A+
A
B+
B
C+
C
D+
D
F
not..+





The figures represent the distribution of the percent of the results for all courses offered in the first semester (2017-2018) for The medical physics program (plan 33)

The causes of low percent (50%) of completion for the general physics 2 course is that 6 students started the course but only 3 students could complete the course.

The causes of low percent (40%) of completion for the classical mechanics 1 course is that 5 students started the course but only 2 students could complete the course.

The causes of low percent (57%) of completion for the quantum mechanics 1 course is that 7 students started the course but only 4 students could complete the course.

The causes of low percent (50%) of completion for the medical radiation physics 1 course is that 6 students started the course but only 3 students could complete the course.

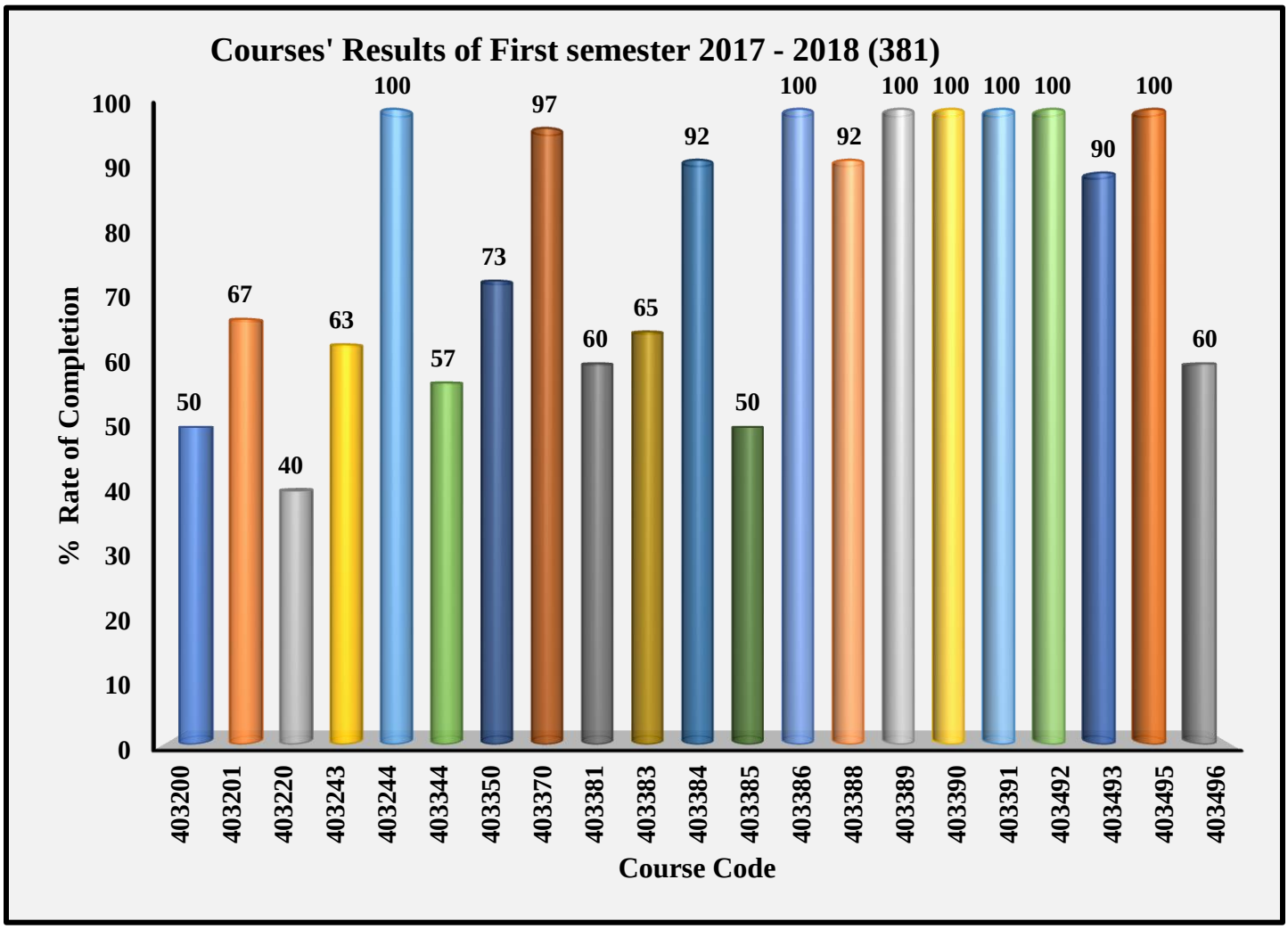
The causes of low percent (60%) of completion for the laser in medicine course is that 20 students started the course but only 14 students could complete the course.

Assessment of the Courses' Results of The medical physics program Offered in the First Semester (381) 2017-2018 [Plan 33]
Abedeia Campus

No.	Course Code	Course Title	% of Completion Rate	Remarks
1	403200	General Physics 2	50	No of students start = 6 No. of not complete = 3
2	403201	Electromagnetism 1	67	No of students start = 21 No. of not complete = 7
3	403220	Classical Mechanics 1	40	No of students start = 5 No. of not complete = 3
4	403243	Methods in Theoretical Physics 1	63	No of students start = 19 No. of not complete = 7
5	403244	Methods in Theoretical Physics 2	100	No of students = 5
6	403344	Quantum Mechanics (1)	57	No of students start = 7 No. of not complete = 3
7	403350	Modern Physics	73	No of students start = 15 No. of not complete = 4
8	403370	Solid State 1	97	No of students start = 34 No. of not complete = 1
9	403381	Laser in Medicine	60	No of students start = 20 No. of not complete = 12
10	403383	Health Physics	65	No of students start = 17 No. of not complete = 6
11	403384	Physics of Radiation Effect	92	No of students start = 12 No. of not complete = 1
12	403385	Medical Radiation Physics 1	50	No of students start = 6 No. of not complete = 3
13	403386	Physics of Radiation Therapy 1	100	No of students = 14
14	403388	Radiation Protection	92	No of students start = 12 No. of not complete = 11
15	403389	Physics of Medical Imaging	100	No of students start = 9
16	403390	Physics of Ultrasound in Medicine	100	No of students = 4

17	403391	Computer in Medicine	100	No of students = 6
18	403492	Medical Radiation Physics 2	100	No of students = 3
19	403493	Physics of Radiation therapy 2	90	No of students start = 20 No. of not complete = 2
20	403495	Nuclear Medicine	100	No of students = 13
21	403496	Physics of Biomaterials	60	No of students start = 26 No. of not complete = 1

The above figure represents the percent of passing students for each course of The medical physics program offered in the first semester of academic year 2017–2018. However most of the results showed an acceptable distribution on different grades reflecting the individual



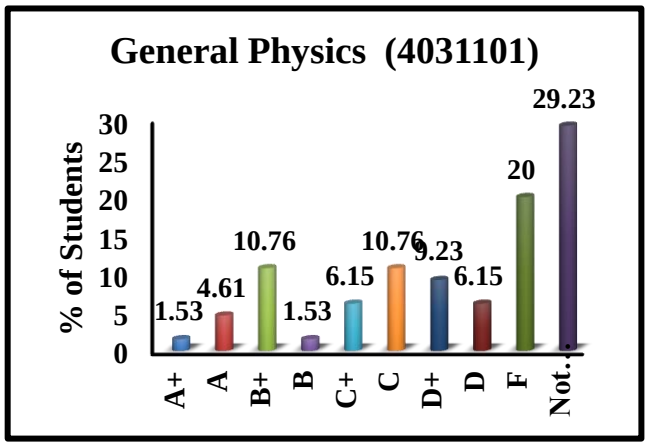
differences between students, the following remarks are recorded on some courses' results:

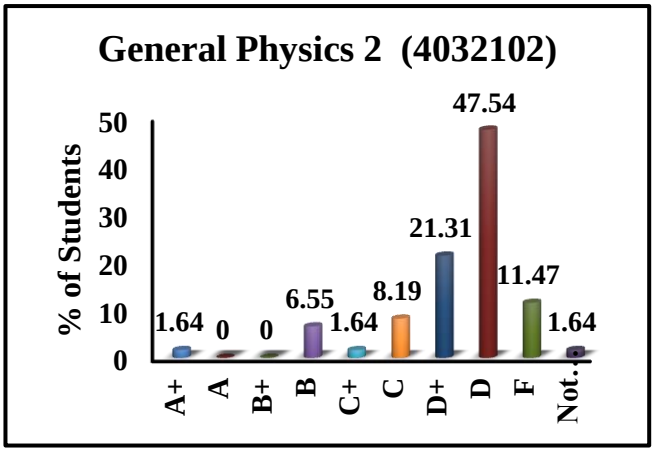
- The causes of low percent (50%) of completion for general physics 2 course is that however 6 students started the course, only 3 students could complete the course.
- The causes of low percent (67 %) of completion for electromagnetism 1 course is that however 21 students started the course, only 14 students could complete the course.
- The causes of low percent (40%) of completion for classical mechanics 1 course is that however 5 students started the course, only 2 students could complete the course.
- The causes of low percent (63%) of completion for Methods in Theoretical Physics 1course is that however 19 students started the course, only 12 students could complete the course.
- The causes of low percent (57%) of completion for quantum mechanics 1 course is that however 7 students started the course, only 4 students could complete the course.
- The causes of low percent (60 %) of completion for the laser in medicine course is that however 20 students started the course, only 12 students could complete the course.
- The causes of low percent (50%) of completion for the medical radiation physics 1 course is that 6 students started the course but only 3 students could complete the course.
- The causes of low percent (60%) of completion for the laser in medicine course is that 20 students started the course but only 14 students could complete the course.

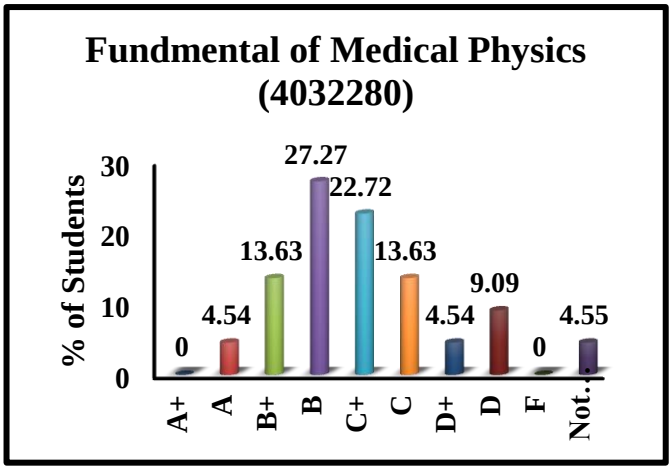
Trend Analysis for the Courses of The medical physics program Offered in the First Semester (381) 2017-2018 Plan 37 (Abdeia Campus)

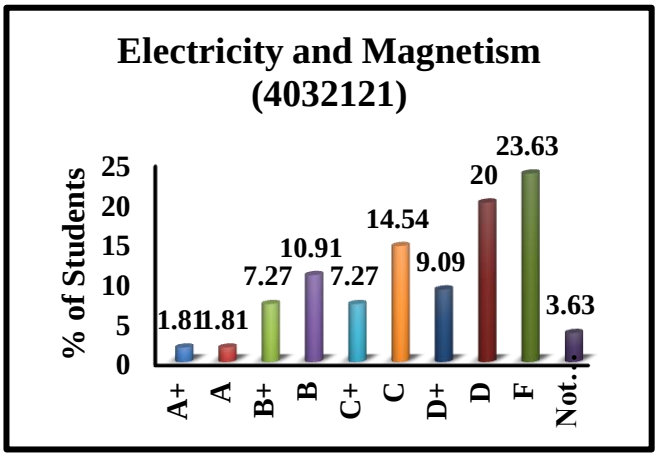
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented grades' distribution for each course.

No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	F	Not complete	Complete	Sum
1	4031101	General Physics	1	3	7	1	4	7	6	4	6	19	33	58
2	4032102	General Physics 2	1	0	0	4	1	5	13	29	7	1	55	61
3	4032121	Electricity and Magnetism	1	1	4	6	4	8	5	11	13	2	40	55
4	433371	Fundamentals of Medical Physics	0	1	3	6	5	3	1	2	0	1	21	22


General Physics (4031101)
% of Students
30
25
20
15
10
5
0
1.53
4.61
10.76
1.53
6.15
10.76
9.23
6.15
20
29.23
A+
A
B+
B
C+
C
D+
D
F
Not...


General Physics 2 (4032102)
% of Students
50
40
30
20
10
0
1.64
0
0
6.55
1.64
8.19
21.31
47.54
11.47
1.64
A+
A
B+
B
C+
C
D+
D
F
Not...


Fundmental of Medical Physics (4032280)
% of Students
30
20
10
0
0
4.54
13.63
27.27
22.72
13.63
4.54
9.09
0
4.55
A+
A
B+
B
C+
C
D+
D
F
Not...


Electricity and Magnetism (4032121)
% of Students
25
20
15
10
5
0
1.81
1.81
7.27
10.91
7.27
14.54
9.09
20
23.63
3.63
A+
A
B+
B
C+
C
D+
D
F
Not...

The figures represent the distribution of the percent of the results for all courses offered in the first semester (2017-2018) for The medical physics program (plan 37)

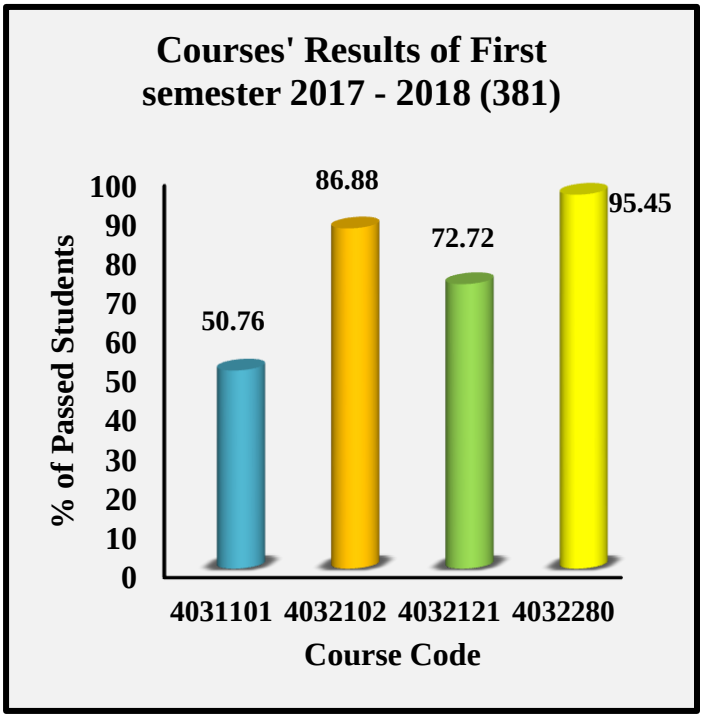
The causes of low percent (50.76 %) of completion for the general physics course is that however, 65 students started the course, 16 students were denied from entry to exam, they had passing the permissible limit of absence, in addition to 13 students failed to pass the final exam.

Assessment of the Courses' Results of The medical physics program Offered in the First Semester (381) 2017-2018
Abedeia Campus

No.	Course Code	Course Title	% of Passing Students	Remarks
1	4031101	General Physics	50.76	No of students start = 65 No. of not complete = 32
2	4032102	General Physics 2	86.88	No of students start = 61 No. of not complete = 8
3	4032121	Electricity and Magnetism	72.72	No of students start = 55 No. of not complete = 15
4	4032280	Fundamental of Medical Physics	95.45	No of students start = 22 No. of not complete = 1

The figure represents the percent of passing students for each course of The medical physics program offered in the first semester of academic year 2017–2018. However most of the results showed an acceptable distribution on different grades reflecting the individual differences between students, the following remarks are recorded on some courses' results:

- The cause of low percent (50.76 %) of completion for the general physics course is that however, 65 students started the course, 16 students were denied from entry to exam, they had passing the permissible limit of absence, in addition to 13 students failed to pass the final exam.

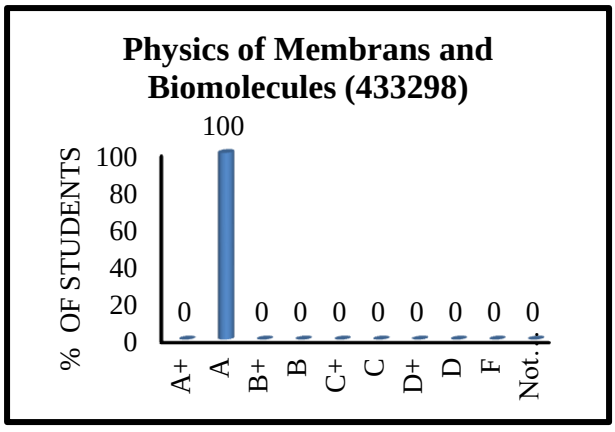


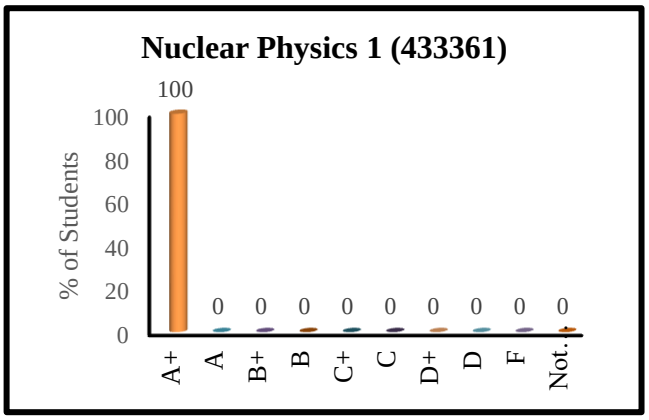
Second Semester 2017-2018

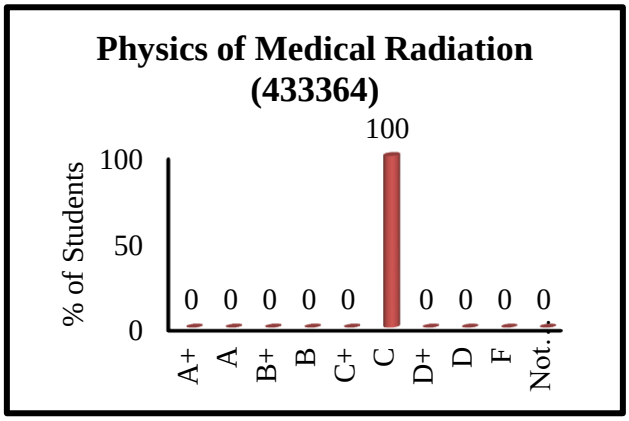
Trend Analysis for the Courses of The medical physics program Offered in the Second Semester (382) 2017-2018 [Plan 19]
(Zaher Campus)

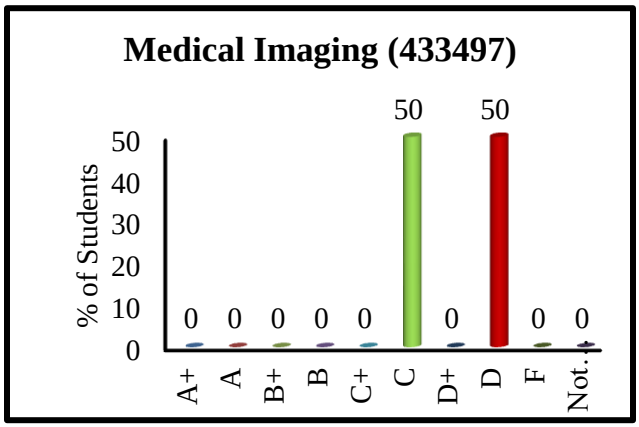
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented grades' distribution for each course.

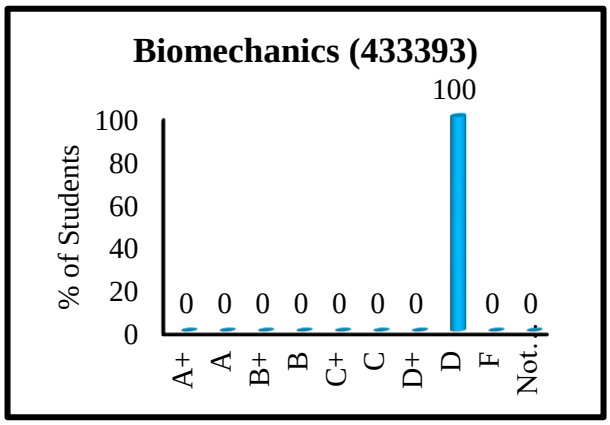
No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	F	Not complete	Complete	Sum
1	433298	Physics of Membrans and Biomolecules	0	1	0	0	0	0	0	0	0	0	1	1
2	433361	Nuclear Physics 1	1	0	0	0	0	0	0	0	0	0	0	1
3	433364	Physics of Medical Radiation	0	0	0	0	0	1	0	0	0	0	1	1
4	433393	Biomechanics	0	0	0	0	0	0	0	1	0	0	1	1
5	433497	Medical Imaging	0	0	0	0	0	1	0	1	0	0	2	2











The The figures represent the distribution of the percent of the results for all courses offered in the Second semester (2017-2018) for The medical physics program (plan 19)

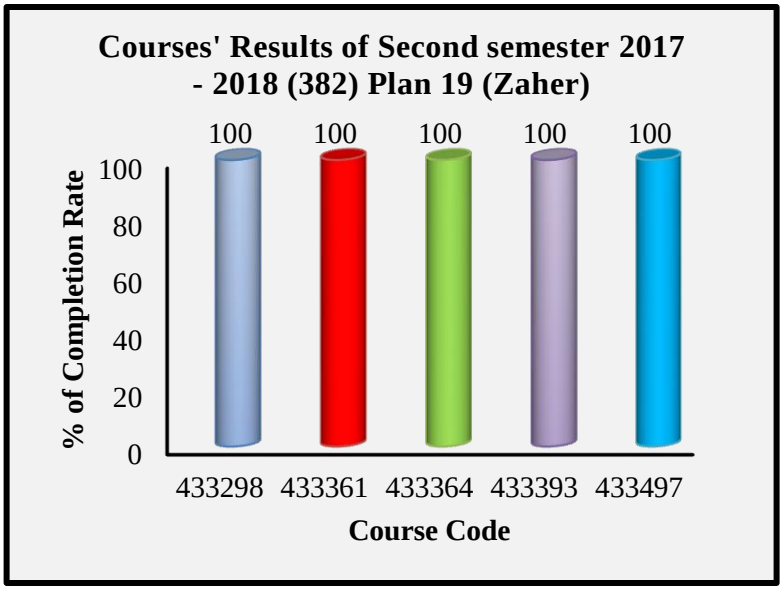
The causes of high success rate (100%):

- Plan 19 is a closed plan and few students (up to 2 students) are still in progress to complete their B.Sc.
- In courses 403364,433393, 433361 and 433298 only one student started and completed this course.

Assessment of the Courses' Results of The medical physics program Offered in the Second Semester (382) 2017-2018
- Zaher Campus

No.	Course Code	Course Title	% of Passing Students	Remarks
1	433298	Physics of Membrans and Biomolecules	100	No of students start = 1
2	433361	Nuclear Physics 1	100	No of students start = 1
3	433364	Physics of Medical Radiation	100	No of students start = 4
4	433393	Biomechanics	100	No of students = 1
5	433497	Medical Imaging	100	No of students = 2

The figure represents the percent of passing students for each course of The medical physics program offered in the second semester of academic year 2017–2018. In course 403364,433393, 433361 and 433298, only one student started and completed these courses in addition to the relation of these courses to the student practice in field.



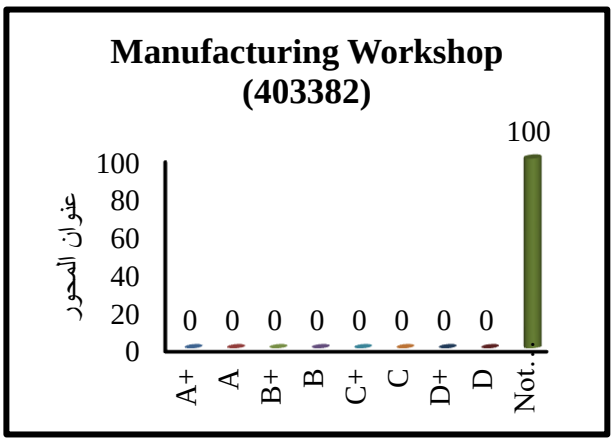
Trend Analysis for the Courses of The medical physics program Offered in the Second Semester (382) 2017-2018 [Plan 19]

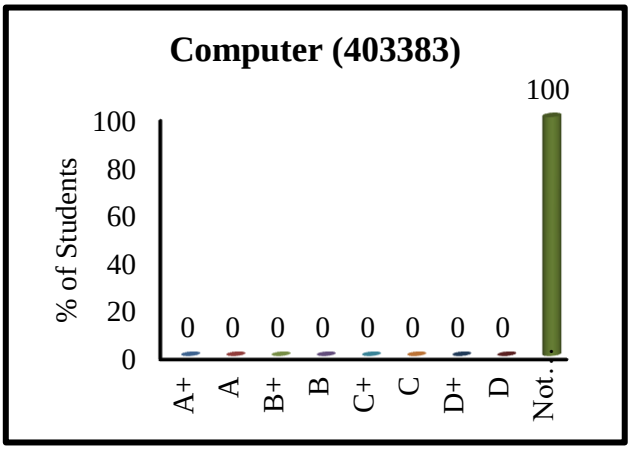
(Abdeia Campus)

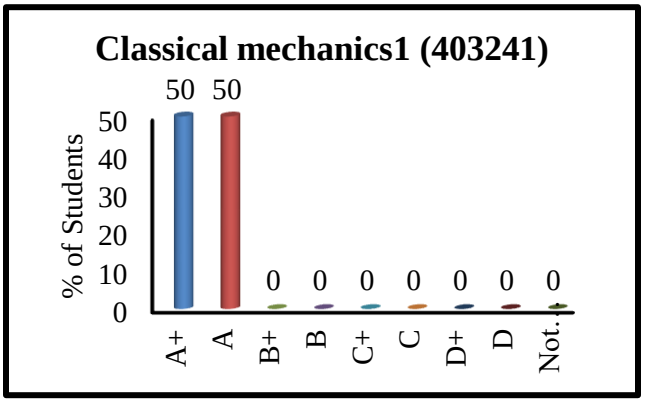
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented

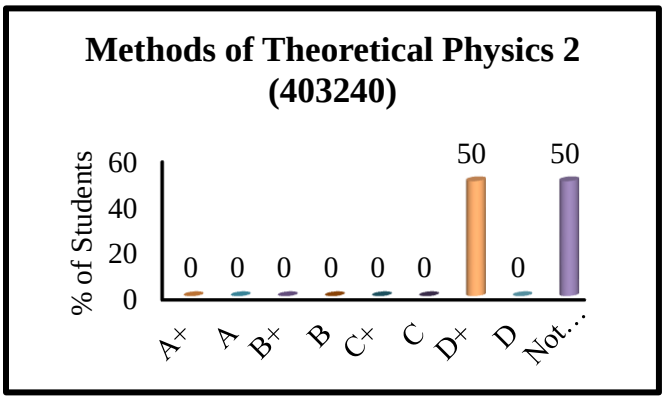
No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	Not complete	Complete	Sum
1	403241	Classical mechanics1	1	1	0	0	0	0	0	0	0	2	2
2	403240	Methods of Theoretical Physics 2	0	0	0	0	0	0	1	0	1	1	2
3	403253	Atomic Physics	1	0	0	0	0	1	0	0	0	2	2
4	403296	Electrical Properties of Biological Solutions	0	0	0	1	0	0	0	0	0	1	1
5	403332	Electromagnetism 1	0	1	1	0	0	0	0	0	0	2	2
6	403345	Quantum Mechanics 1	0	0	0	1	0	1	0	0	0	2	2
7	403382	Manufacturing Workshop	0	0	0	0	0	0	0	0	1	0	1
8	403383	Computer	0	0	0	0	0	0	0	0	1	0	1
9	403423	Electronics	0	0	0	0	0	1	0	0	0	1	1

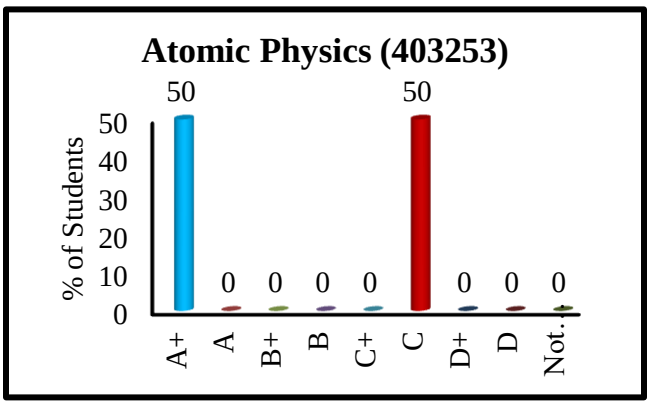
grades' distribution for each course.

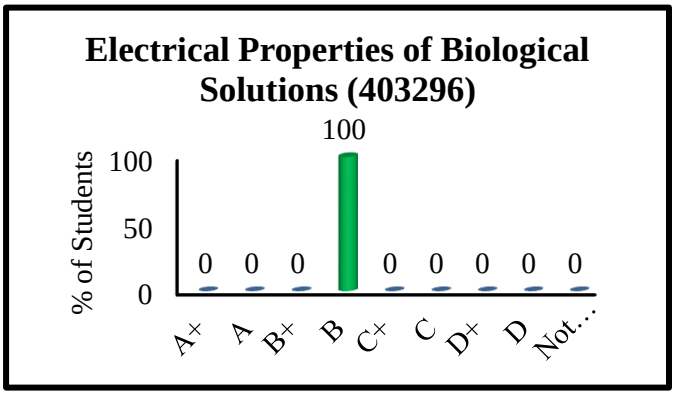


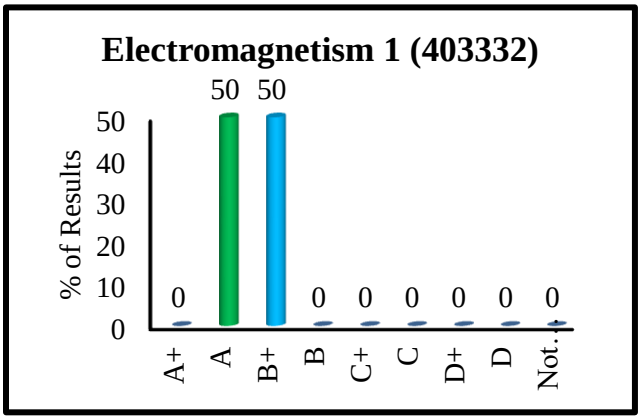


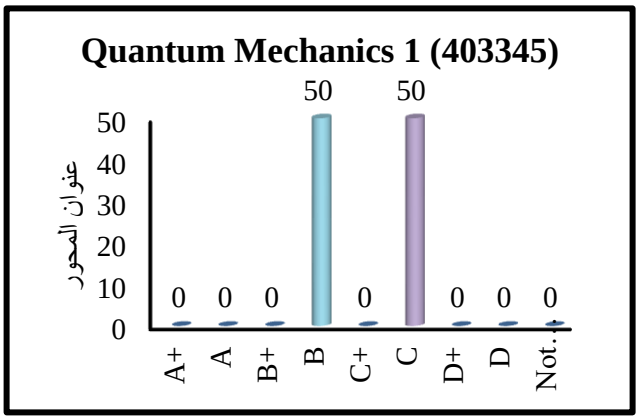

Classical mechanics1 (403241)
% of Students
50 50 0 0 0 0 0 0 0
A+ A B+ B C+ C D+ D Not…


Methods of Theoretical Physics 2 (403240)
% of Students
0 0 0 0 0 0 50 0 50
A+ A B+ B C+ C D+ D Not…


Atomic Physics (403253)
% of Students
50 0 0 0 0 50 0 0 0
A+ A B+ B C+ C D+ D Not…


Electrical Properties of Biological Solutions (403296)
% of Students
0 0 0 100 0 0 0 0 0
A+ A B+ B C+ C D+ D Not…


Electromagnetism 1 (403332)
% of Results
0 50 50 0 0 0 0 0 0
A+ A B+ B C+ C D+ D Not…


Quantum Mechanics 1 (403345)
عنوان المحور
0 0 0 50 0 50 0 0 0
A+ A B+ B C+ C D+ D Not…

These The figures represent the percent of passing students for each course of The medical physics program offered in the second semester of academic year 2017–2018 abdeia campus (plan 19). However most of the results showed an acceptable distribution on different grades reflecting the individual differences between students, the following remarks are recorded on some courses' results:

The causes of high success rate (100%):

- Plan 19 is a closed plan and few students (up to 2 students) are still in progress to complete their B.Sc.
- In course 403289, only one students started and completed this course.

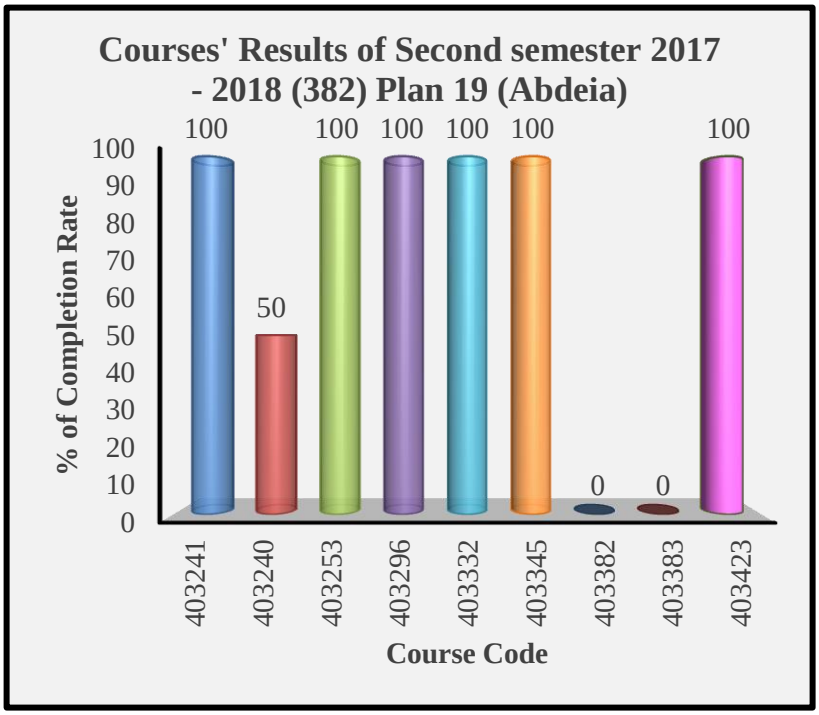
- In course 403240, the percent of passing students was 50 %, since 2 students started the course and one of them could not pass the course.
- In courses 403382 and 403383, the percent of passing students was 0%, since one student started the courses but could not complete them.

Assessment of the Courses' Results of The medical physics program Offered in the Second Semester (382) 2017-2018 [Plan 19]
Abedeia Campus

No.	Course Code	Course Title	% of Completion Rate	Remarks
1	403241	Classical mechanics1	100	No of students start = 2
2	403240	Methods of Theoretical Physics 2	50	No of students start = 2 No. of not complete = 1
3	403253	Atomic Physics	100	No of students start = 2
4	403296	Electrical Properties of Biological Solutions	100	No of students start = 1

5	403332	Electromagnetism 1	100	No of students = 2
6	403345	Quantum Mechanics 1	100	No of students start = 2
7	403382	Manufacturing Workshop	0	No of students start = 1 No. of not complete = 1
8	403383	Computer	0	No of students start = 1 No. of not complete = 1
9	403423	Electronics	100	No of students start = 1

The figure represents the percent of passing students for each course of The medical physics program offered in the second semester of academic year 2017–2018 in Abdeia campus In course 403298 only one student started and completed the course in addition to the relation of these courses to the student practice in field. In course 403240, the percent of passing students was 50 %, since 2 students started the course and one of them could not pass the course. Moreover, in courses 403382 and 403383, the percent of passing students was 0%, since one student started the courses but could not complete them.

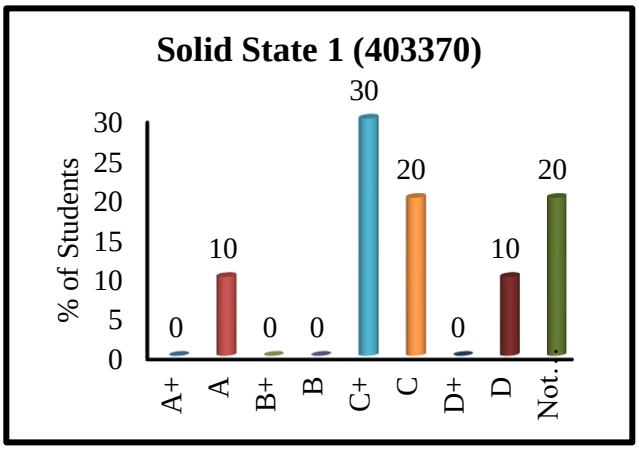


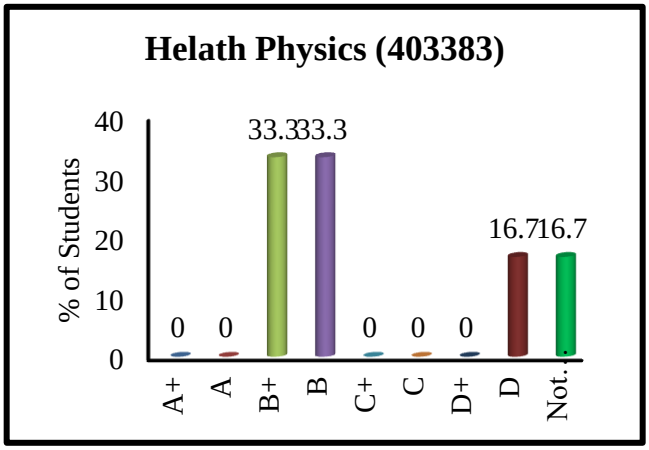
Trend Analysis for the Courses of The medical physics program Offered in the Second Semester (382) 2017-2018 [Plan 33]

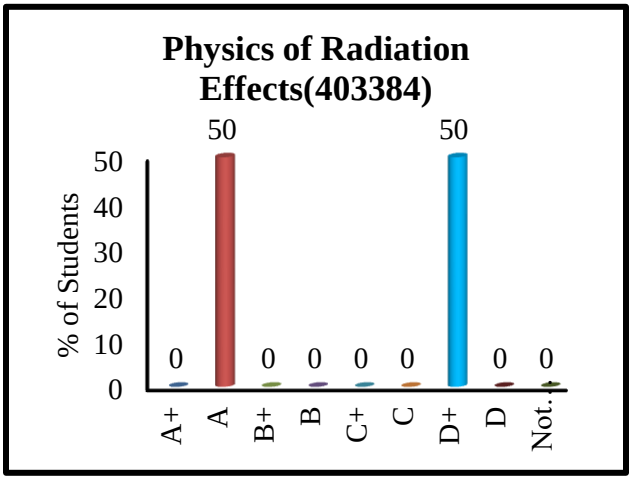
(Abdeia Campus)

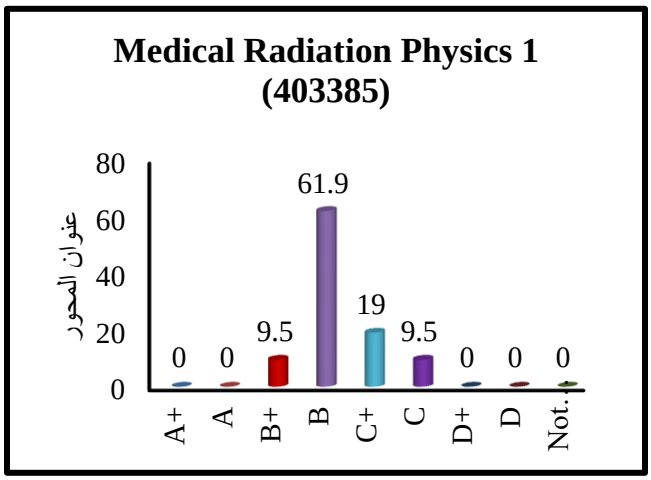
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented grades' distribution for each course.

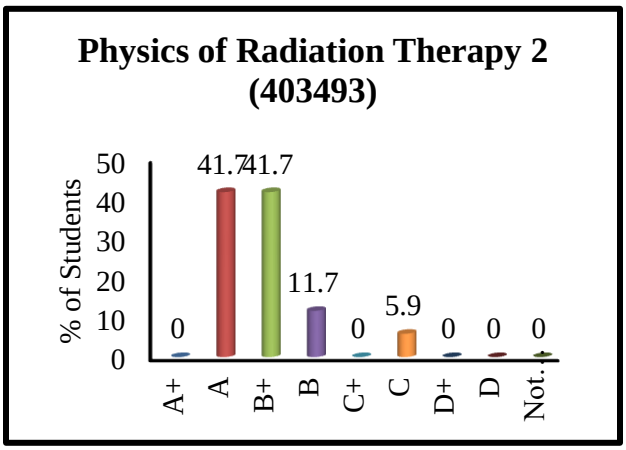
No.	Code	Course Title	A+	A	B +	B	C +	C	D+	D	Not complete	Complete	Sum
1	403370	Solid State 1	0	1	0	0	3	2	0	1	2	7	10
2	403383	Helath Physics	0	0	2	2	0	0	0	1	1	5	6
3	403384	Physics of Radiation Effects	0	1	0	0	0	0	1	0	0	2	2
4	403385	Medical Radiation Physics 1	0	0	2	13	4	2	0	0	0	21	21
5	403493	Physics of Radiation Therapy 2	0	7	7	2	0	1	0	0	0	17	17
6	403388	Radiation Protection	0	1	0	1	3	2	2	1	0	10	10
7	403389	Physics of Medical Imaging	0	1	0	0	1	3	6	2	0	10	10
8	403390	Physics of Ultrasound in Medicine	0	1	0	0	2	1	0	6	0	10	10
9	403391	Computer in Medicine	0	1	4	3	2	0	2	1	0	13	13
10	403492	Medical Radiation Physics 2	0	0	0	1	2	0	0	1	0	4	4
11	403495	Physics of Nuclear Medicine	0	0	2	4	3	4	1	0	0	14	14
12	403386	Physics of Radiation Therapy 1	1	0	0	0	0	2	1	2	2	6	8
13	403381	Laser in medicine	0	0	0	0	4	3	0	6	0	13	13
14	403498	Training Project	0	13	0	0	0	0	0	0	0	13	13
15	403244	Methods of Theoratical Physics 2	0	0	0	1	0	1	3	5	1	10	11
16	403496	Physics of Biomaterials	0	2	2	1	2	2	2	0	0	11	11

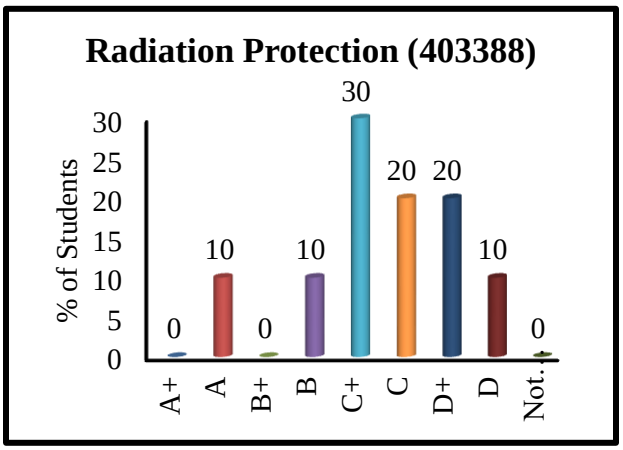

Solid State 1 (403370)
% of Students
30
25
20
15
10
5
0
0
10
0
0
30
20
0
10
20
A+
A
B+
B
C+
C
D+
D
Not.

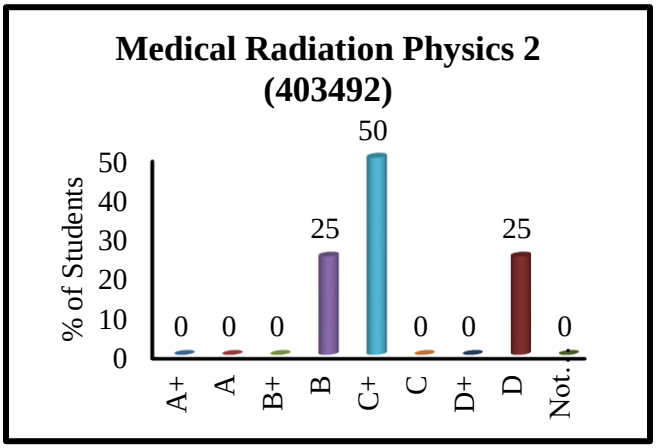

Helath Physics (403383)
% of Students
40
30
20
10
0
0
0
33.3
33.3
0
0
0
16.7
16.7
A+
A
B+
B
C+
C
D+
D
Not.

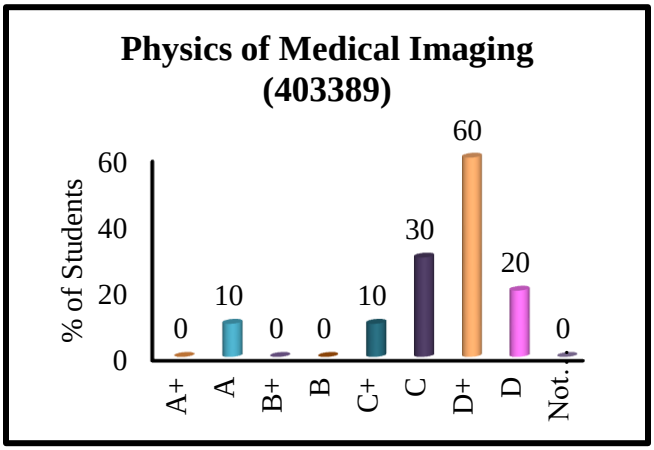

Physics of Radiation Effects(403384)
% of Students
50
40
30
20
10
0
0
50
0
0
0
0
50
0
0
A+
A
B+
B
C+
C
D+
D
Not.

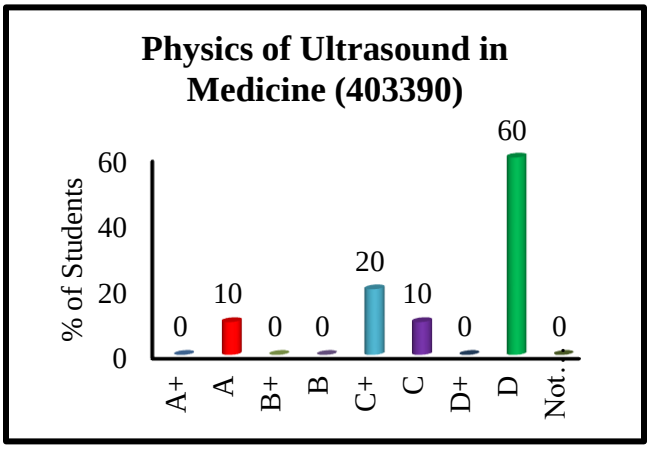

Medical Radiation Physics 1 (403385)
عنوان المحور
80
60
40
20
0
0
0
9.5
61.9
19
9.5
0
0
0
A+
A
B+
B
C+
C
D+
D
Not.

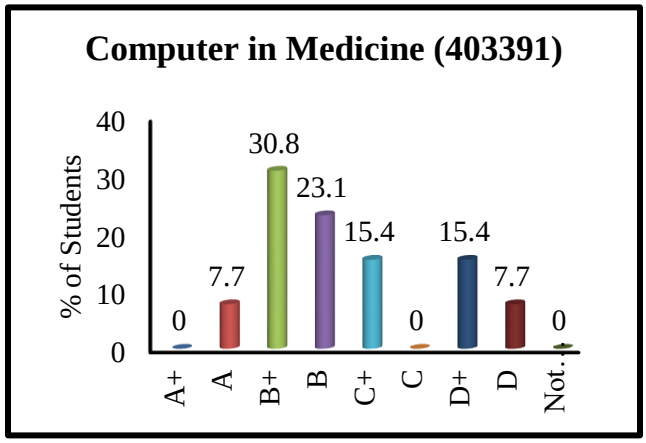

Physics of Radiation Therapy 2 (403493)
% of Students
50
40
30
20
10
0
0
41.7
41.7
11.7
0
5.9
0
0
0
A+
A
B+
B
C+
C
D+
D
Not.

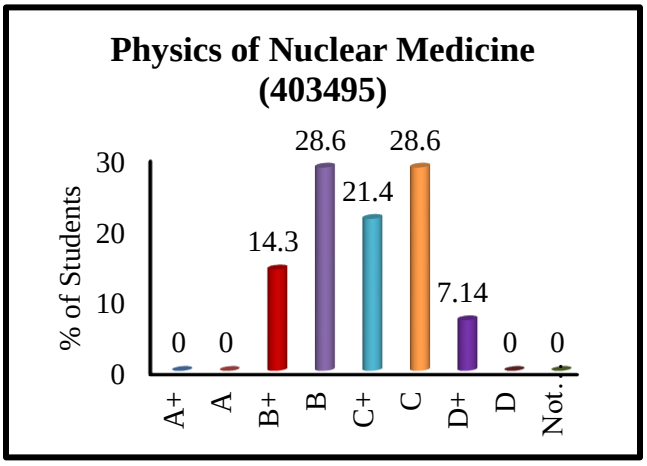

Radiation Protection (403388)
% of Students
30
25
20
15
10
5
0
0
10
0
10
30
20
20
10
0
A+
A
B+
B
C+
C
D+
D
Not.

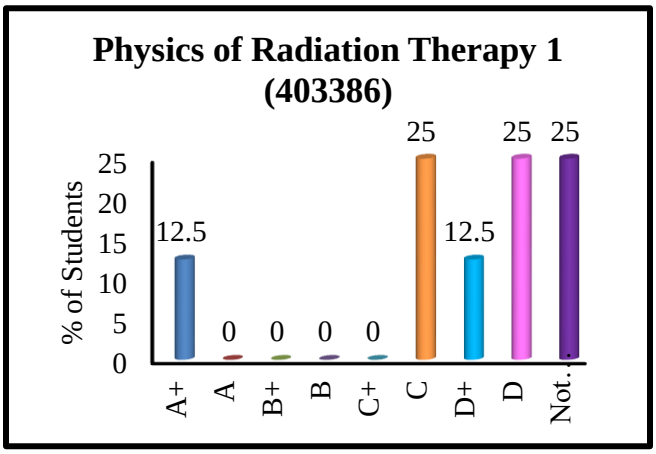

Medical Radiation Physics 2 (403492)
% of Students
0 10 20 30 40 50
0 0 0 25 50 0 0 25 0
A+ A B+ B C+ C D+ D Not...

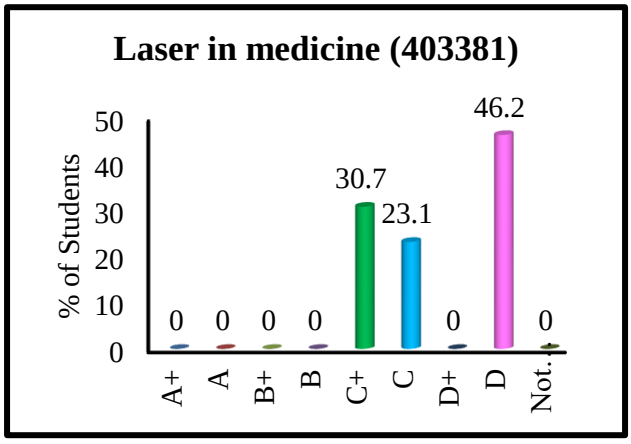

Physics of Medical Imaging (403389)
% of Students
0 20 40 60
0 10 0 0 10 30 60 20 0
A+ A B+ B C+ C D+ D Not...

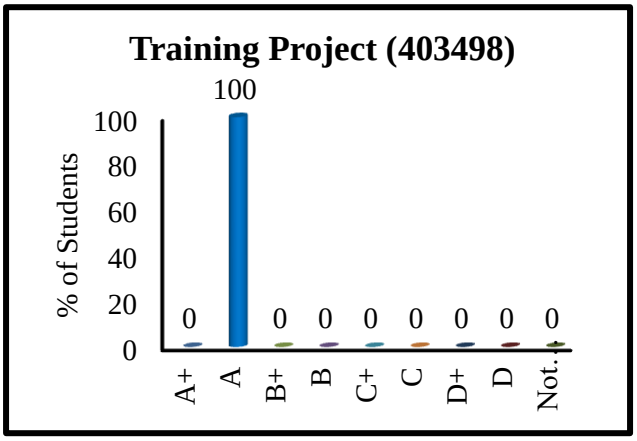

Physics of Ultrasound in Medicine (403390)
% of Students
0 20 40 60
0 10 0 0 20 10 0 60 0
A+ A B+ B C+ C D+ D Not...

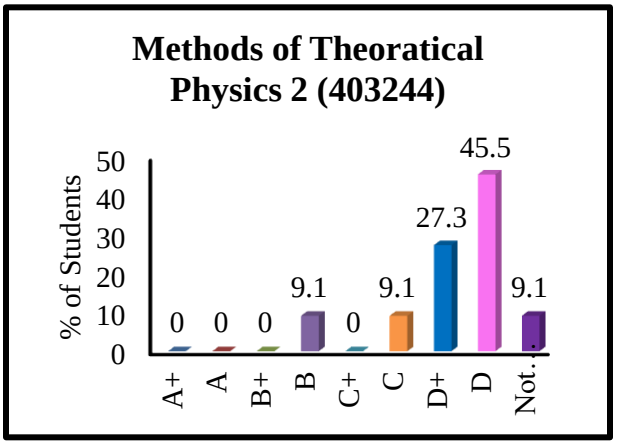

Computer in Medicine (403391)
% of Students
0 10 20 30 40
0 7.7 30.8 23.1 15.4 0 15.4 7.7 0
A+ A B+ B C+ C D+ D Not...

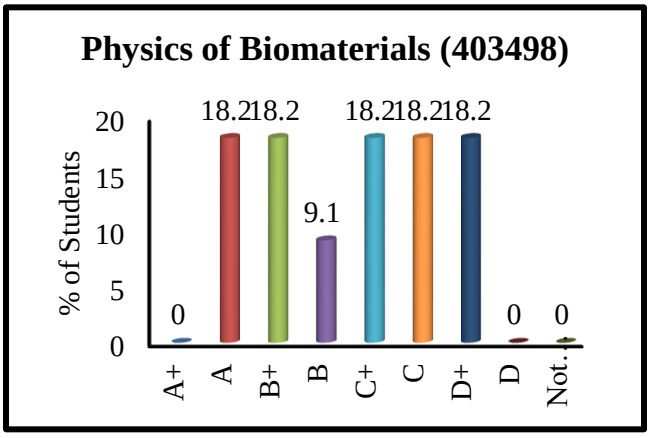

Physics of Nuclear Medicine (403495)
% of Students
0 10 20 30
0 0 14.3 28.6 21.4 28.6 7.14 0 0
A+ A B+ B C+ C D+ D Not...


Physics of Radiation Therapy 1 (403386)
% of Students
0 5 10 15 20 25
12.5 0 0 0 0 25 12.5 25 25
A+ A B+ B C+ C D+ D Not...







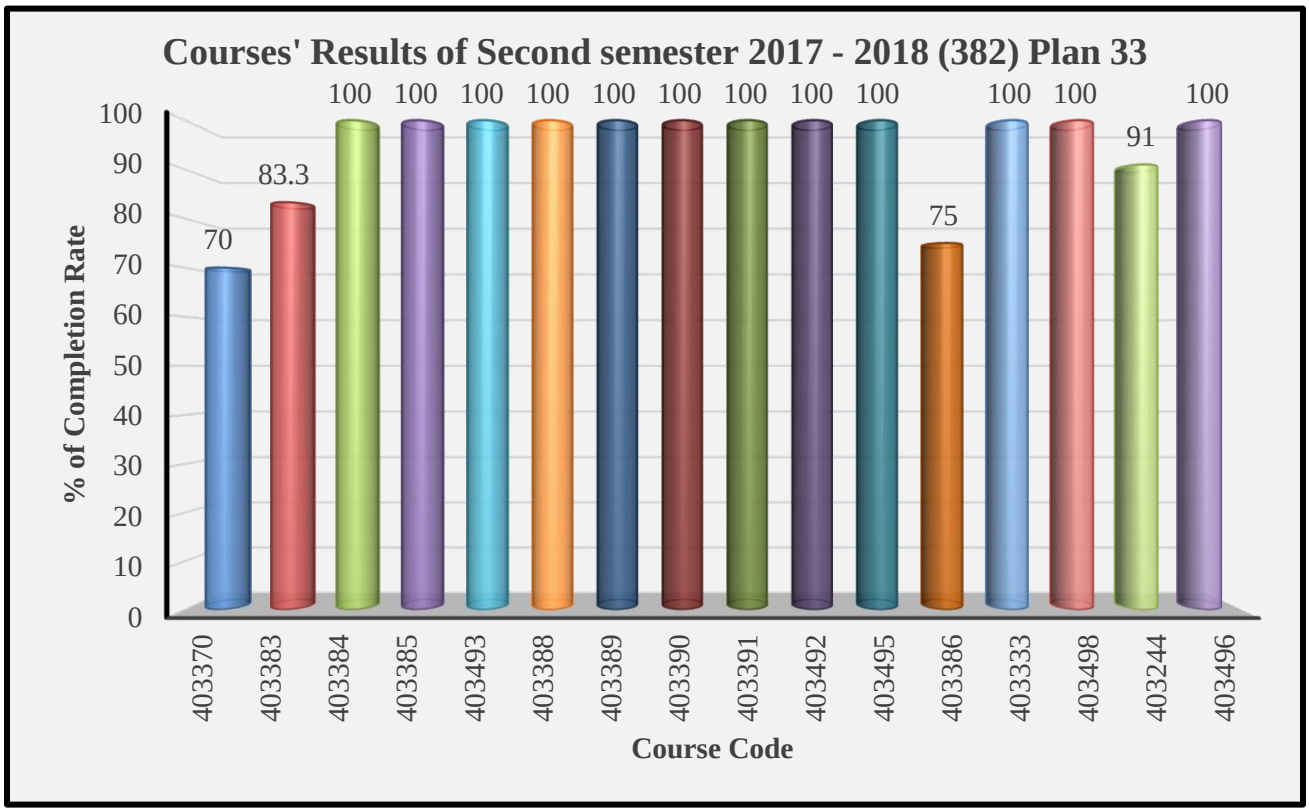


The figures represent the percent of grade distribution for all courses offered in the second semester (2017-2018) for The medical physics program (plan 33) in Abdeia campus.

All students have grade A in field training, since it is a practical course and related to their speciality.

Assessment of the Courses' Results of the medical physics program Offered in the Second Semester (382) 2017-2018 [Plan 33]
Abdeia Campus

No.	Course Code	Course Title	% of Passing Students	Remarks
1	403370	Solid State 1	70	No of students start = 10 No. of not complete = 2
2	403383	Helath Physics	83.3	No of students start = 6 No. of not complete = 1
3	403384	Physics of Radiation Effects	100	No of students start = 2
4	403385	Medical Radiation Physics 1	100	No of students start = 21
5	403493	Physics of Radiation Therapy 2	100	No of students start = 17
6	403388	Radiation Protection	100	No of students start = 10
7	403389	Physics of Medical Imaging	100	No of students start = 10
8	403390	Physics of Ultrasound in Medicine	100	No of students start = 10
9	403391	Computer in Medicine	100	No of students start = 13
10	403492	Medical Radiation Physics 2	100	No of students start = 4
11	403495	Physics of Nuclear Medicine	100	No of students start = 14
12	403386	Physics of Radiation Therapy 1	75	No of students start = 8 No. of not complete = 2
13	403381	Laser in medicine	100	No of students start = 13
14	403498	Training Project	100	No of students start = 13
15	403244	Methods of Theoratical Physics 2	91	No of students start = 11 No. of not complete = 1
16	403496	Physics of Biomaterials	100	No of students start = 11



The Figure represents the percent of completion rate for each course of the The medical physics program offered in the second semester of academic year 2017–2018. However, most of the results showed an acceptable distribution in different grades reflecting the individual differences between the students, the following remarks are recorded in some courses' results:

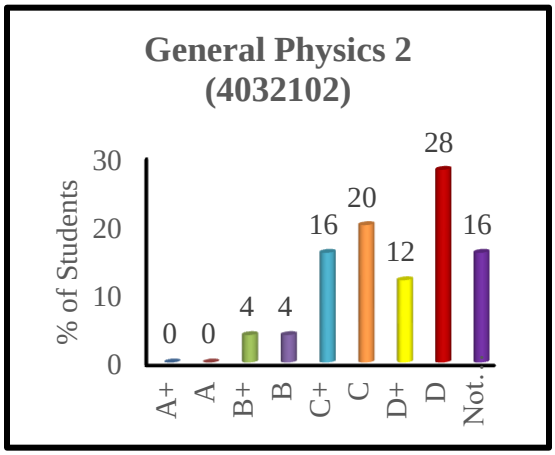
- In 403498, All students have grade A in a field training course (403498), since it is an applicable course and related to their speciality.

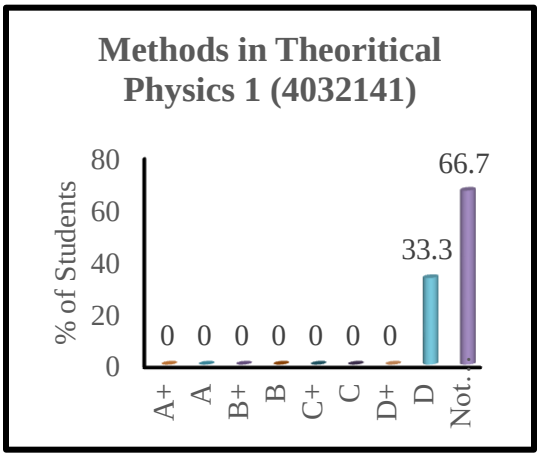
Trend Analysis for the Courses of The medical physics program Offered in the Second Semester (382) 2017-2018 [Plan 37]

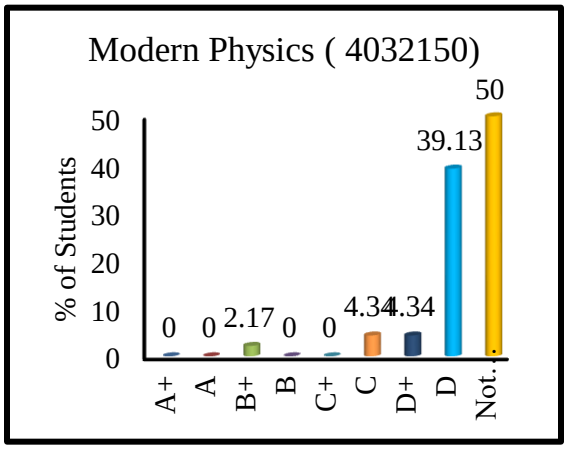
(Abdeia Campus)

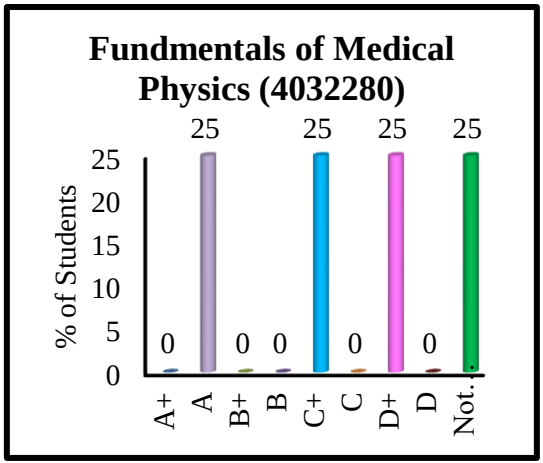
In this report, a visual summary of students' results follows. A summary table of students' results for each course followed by charts represented grades' distribution for each course.

No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	Not complete	Complete	Sum
1	4032102	General Physics 2	0	0	1	1	4	5	3	7	4	21	25
2	4032141	Methods in Theoritical Physics 1	0	0	0	0	0	0	0	2	4	2	6
3	4032150	Modern Physics	0	0	1	0	0	2	2	18	23	23	46
4	4032280	Fundmentals of Medical Physics	0	1	0	0	1	0	1	0	1	3	4
5	4032293	Biomechanics	0	2	4	3	4	1	1	3	0	18	18

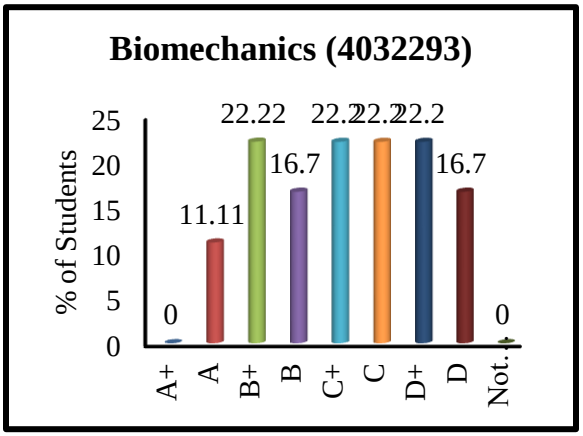








The The figures represent the percent of grade distribution for all courses offered in the second semester (2017-2018) for the The medical physics program (plan 37) in Abdeia campus. However, most of the results showed an acceptable distribution on different grades reflecting the individual differences between students, the following remarks are recorded on some courses' results:

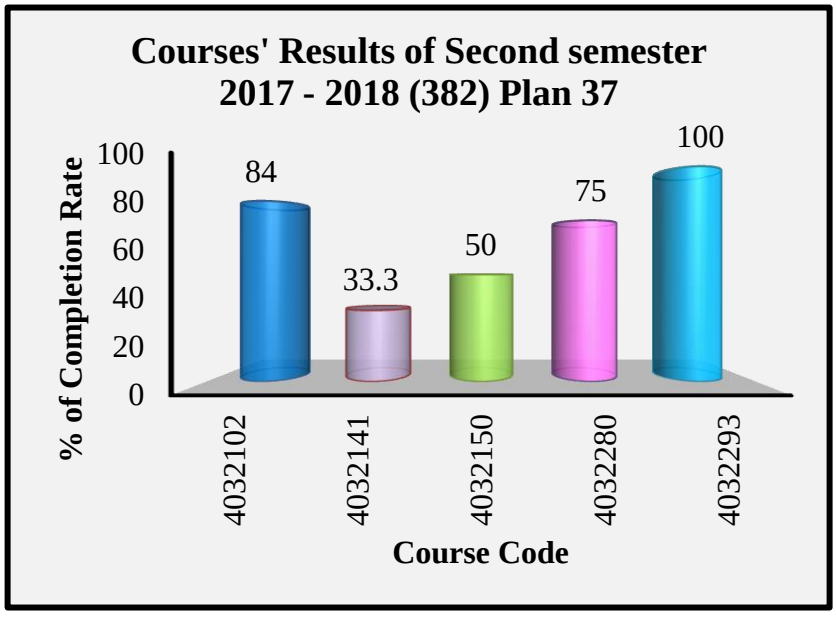


- In course 4032102, the cause of 16% of the students could not complete the course is that, however, 25 students started the course, 2 students were denied from entry to the final exam, since they had passing the permissible limit of absence, 2 students failed to pass the final exam.
- In course 4032141, the cause of 66.7% of the students could not complete the course is that, however, 6 students started the course, one student were absent in the final exam and two students failed to pass the final exam.
- In course 4032150, the cause of 50% of the students could not complete the course is that, however, 46 students started the course, 3 students were denied from entry to the final exam, they had passing the permissible limit of absence, and 19 students failed to pass the final exam.
- In course 4032280, the cause of 25% of the students could not complete the course is that, however, 4 students started the course, one student failed to pass the final exam.

Assessment of the Courses' Results of The medical physics program Offered in the Second Semester (382) 2017-2018 [Plan 37]
Abdeia Campus

No.	Course Code	Course Title	% of Passing Students	Remarks
1	4032102	General Physics 2	84	No of students start = 25 No. of not complete =4
2	4032141	Methods in Theoritical Physics 1	33.3	No of students start = 6 No. of not complete = 4
3	4032150	Modern Physics	50	No of students start = 46 No. of not complete = 23
4	4032280	Fundmentals of Medical Physics	75	No of students start = 4 No. of not complete = 1
5	4032293	Biomechanics	100	No of students start = 18

The figure represents the percent of completion rate for each course of The medical physics program offered in the second semester of academic year 2017–2018 (plan 37). the following remarks are recorded on some courses' results:



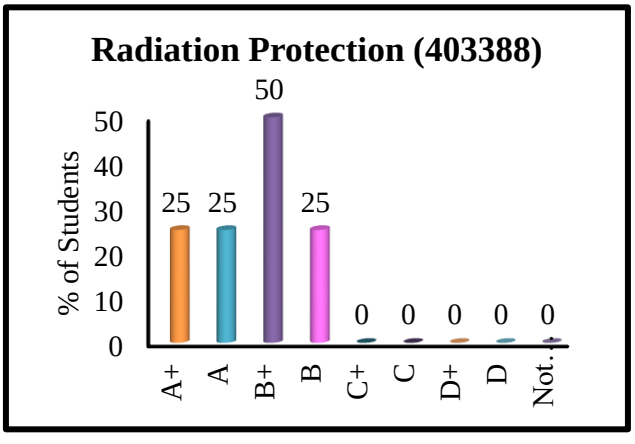
- The causes of low percent (33.3%) of completion for course 4032141 is that however, 6 students started the course, one student were abscent in the final exam and two students failed to pass the final exam.

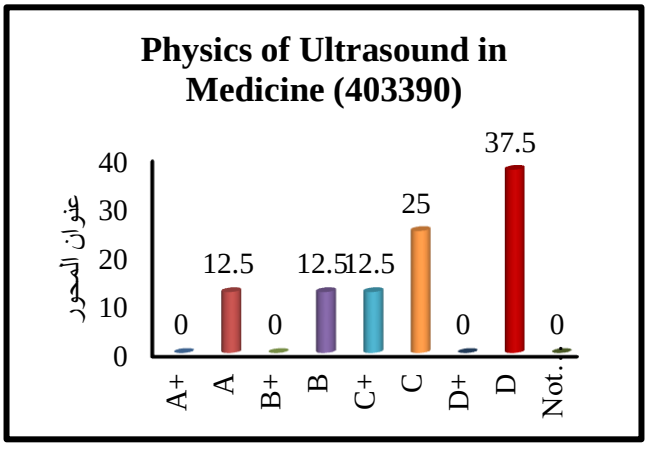
- The causes of low percent (50 %) of completion for course 4032141 is that however, 6 students started the course, one student were abscent in the final exam and two students failed to pass the final exam.
- The causes of low percent (75%) of completion for course 4032280 that however, 4 students started the course, one student failed to pass the final exam.

Summer Semester 2017-2018

Trend Analysis for the Courses of The medical physics program Offered in the Summer Semester (383) 2017-2018 [Plan 33] (Abdeia Campus)

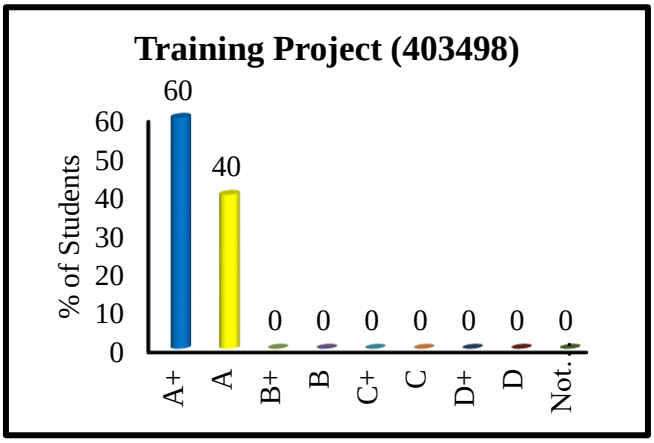
No.	Code	Course Title	A+	A	B+	B	C+	C	D+	D	Not complete	Complete	Sum
1	403388	Radiation Protection	1	1	2	1	0	0	0	0	0	4	4
2	403390	Physics of Ultrasound in Medicine	0	1	0	1	1	2	0	3	0	8	8
3	403498	Training Project	6	4	0	0	0	0	0	0	0	10	10





The figures represent the percent of grade distribution for all courses offered in the summer semester (2017-2018) for The medical physics program (plan 33) in Abdeia campus.

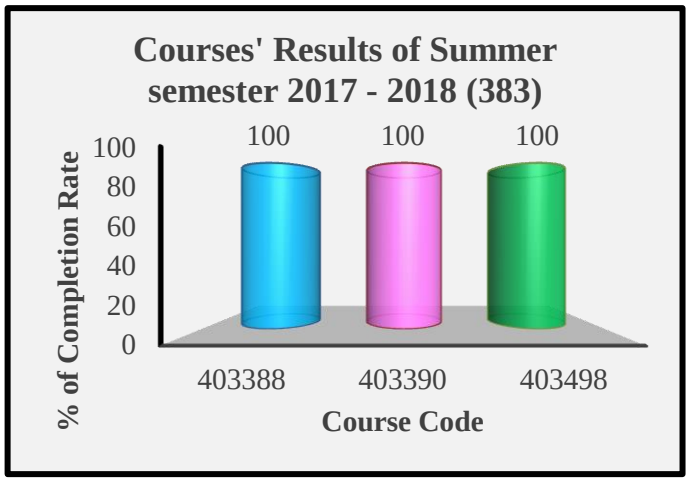
All students have grade A^+ and A in a field training course (403498), since it is a practical course and related to their speciality



Assessment of the Courses' Results of The medical physics program Offered in the Summer Semester (383) 2017-2018 [Plan 33] Abdeia Campus

No.	Course Code	Course Title	% of Passing Students	Remarks
1	403388	Radiation Protection	100	No of students start = 4
2	403390	Physics of Ultrasound in Medicine	100	No of students start = 8
3	403498	Training Project	100	No of students start = 10

The Figure represents the percent of completion rate for each course of the The medical physics program offered in the summer semester of academic year 2017–2018 plan 33 (Abdeia campus). However, most of the results showed an acceptable distribution in different grades reflecting the



individual differences between the students, the following remarks are recorded in some courses' results:

- In 403498, All students have grades A^+ and Ain field training, since it is an applicable course and related to their speciality.

(Attach additional summaries if necessary)

4. Delivery of Planned Courses

(a) List any courses that were planned but not taught during this academic year and indicate the reason and what will need to be done if any compensating action is required.		
Course title and code	Explanation	Compensating action if required
None		

(b) Compensating Action Required for Units of Work Not Taught in Courses that were Offered. (Complete only where units not taught were of sufficient importance to require some compensating action)		
Course	Unit of work	Reason
Compensating action if required		

Course	Unit of work	Reason
Compensating action if required _____		
Course	Unit of work	Reason
Compensating action if required _____		
Course	Unit of work	Reason
Compensating action if required _____		

E- Program Management and Administration

List difficulties (if any) encountered in management of the program	Impact of difficulties on the achievement of the program objectives	Proposed action to avoid future difficulties in Response
- Computers were not available when students need them	- Preparation of essays, reports and self study tasks were afftected	- A simulation room for computers is in progress to be completed in next semester

- Limited availability of modern scientific instruments in comparison with the recent scientific development.	- There is a gap between the fundamentals that students learn and modern devices in the field	- Laboratories will undergo major development
- The number of faculty members is not sufficient in the female section	- Teaching overload affect the research activities	- Increase number of the College academic staff members - Encourage members of teaching assistants to end the theses to participate in the teaching

F. Program Summary Evaluation:

1. Graduating Students Evaluation (To be reported on in years when surveys are undertaken) Date of Survey : **1/7/1439 H** Attach survey report	
a. List most important recommendations for improvement, strengths and suggestions • Preparing a list of difficulties that encountering the students in the practical field and increasing the workshops of researching skills • E-learning workshops are regularly arranged to increase students' skills • Encouraging the staff members to develop appropriate strategies to improve their teaching performance. • The training field period should be increased to give the student the practical and applied skills. •	Analysis (e.g. Assessment, action already taken, other considerations, strengths and recommendation for improvement.) **1- Criticism:** • Ineffectiveness of the program in some practical fields. • Failure to provide adequate extracurricular activities. • Lack of students' usage of E-learning **2- Strengths:** • Students' training field improves their academic skills and progress. • The staff members are highly expert to teach the contents of the courses. • The staff members work with high spirit and able to perform a lot of work. • The staff members are interested in progress of the students' academic study. • The program develops the knowledge and skills of students to enable them to perform their future duties.
b. The Changes proposed in the program (if any) in response to this analysis and feedback.	

2. Other Evaluation (e.g. Evaluations by employers or other stakeholders, external review)

The suyves of the graduates and employers were excuted.

-

Describe evaluation process

The contact informations is available to the gradutes committee, therefore the surveys sent to them via e-mail in a google form survey. The results of the surveys are available.

See appendix

Attach review/survey report

a. List most important recommendations for improvement, strengths and suggestions for improvement. -	(e.g. Analysis of recommendations for improvement: Are recommendations valid and what action will be taken, action already taken, or other considerations?)

b. Changes proposed in the program (if any) in response to this feedback.

2. Ratings on Sub-Standards of Standard 4 by program faculty and teaching staff; 4.1 to 4.10.

(a) List sub-standards. Are the "Best Practices" followed; Yes or No? Provide a revised rating for each sub-standard. Indicate action proposed to improve performance (if any).

Sub-Standards	Best Practices Followed (Y/N)	5 Star Rating	List priorities for improvement.
4.1 Student Learning Outcomes Intended student learning outcomes are in consistent consistent with the National Qualifications Framework, and with generally accepted standards for the field of study concerned, including requirements for any professions for which students are being prepared.	Yes	****	• Revision of the ILOs of the The medical physics program perdiocally in order to improve them to meet the labour market needs.
4.2 Program Development Processes Programs must be planned as coherent packages of learning experiences in which all courses contribute in planned ways to the intended learning outcomes for the program.	Yes	***	• A departmental advisory committee in cooperation with experts of similar regional and/or international institutions, which have been accredited, review annually the program specifications and set benchmarks for program performance refining

4.3 Program Evaluation and Review Processes The quality of all courses and the program is monitored regularly through appropriate evaluation mechanisms by course and program evaluation surveys.	Yes	****	• An appropriate and reliable procedures of direct and indirect assessments for reviewing both the courses and the program is already existed. • The presence of an automatic program which analyze the results of the surveys. The deanship of Quality Assuarnce trys to give this program in their near future plan.
4.4 Student Assessment Student assessment processes must be appropriate for the intended learning outcomes and effectively and fairly administered with independent verification of standards achieved. This was achieved using a questionnaire about the student satisfaction of examination to assess the student satisfaction about the exam. Also, the consistent of the exam with the course and program ILOs.	Yes	***	• Organize workshops by educational specialists and experts to increase the awareness of the students about the importance of the surveys. • Developing independent assessment to measure the performance of students' duties personally.
4.5 Educational Assistance for Students Effective systems must be in place for assisting student learning through academic advice, study facilities, monitoring student progress, encouraging high performing students and provision of assistance when needed by individuals.	Yes	***	• Assigning reading room in the department, for students, supplied with computers connected to the internet and the information databases in a way that allow them privacy. • Future plans for purchasing, renewing and maintenance of the labs equipment, in addition to educational books and other teaching aids.
4.6 Quality of Teaching The academic teaching staff arein high quality , but the teaching skills should be periodically improved to met the modern updates in teaching methodology.	Yes	***	• Encourage staff members to admit the acadmic workshops for modern teaching updates.
4.7 Support for Improvements in Quality of Teaching Appropriate strategies must be used by the program administrators and teaching staff to support continuing improvement in quality of teaching.	Yes	***	• Organizing and provision of training courses in the area of modern strategies and skills of teaching within the department & college to encourage staff members improving their teaching performance.
4.8 Qualifications and Experience of Teaching Staff Teaching staff have qualifications and experience necessary for teaching the courses. They teach, and keep uptodate academic and/or professional developments in their fields.	Yes	***	• All the academic staff members in the program are highly qualified, employed on a full time basis and remain up to date with the latest related knowledge. • Nearly, all staff members sharing in weekly scientific lecture in order to update their information in research. • The staff members share in annual conferences and workshops.

4.9 Field Experience Activities In programs that includes field experience activate, the field experience activities must be planned and administrated as fully integrated components of the program, with learning outcomes specified ,supervising staff considered as members of teaching teams, and appropriate evaluation and course improvement strategies carried out.	Yes	***	• The The medical physics program coordinators try hard to improve the field experience via developing of the students hospital training field to acquire the sophisticated skills.
4.10 Partnership Arrangements with Other Institutions	No		There is no partnership with other departments or institutions.
Analysis of Sub-standards. List the strengths and recommendations for improvement of the program's self-evaluation of following best practices.			

G- **Program Course Evaluation:** See the different questionnaires

Student Opinion Surveys are an important tool for students to provide anonymous feedback at the end of a course about their instructors, course content, and their overall course experience. Moreover, student feedback enables students to comment formally on their experiences of courses attended, and to provide useful information to instructors and coordinators for planning and delivery of future courses. Feedback from students is compiled at the end of each semester and various reports are created.

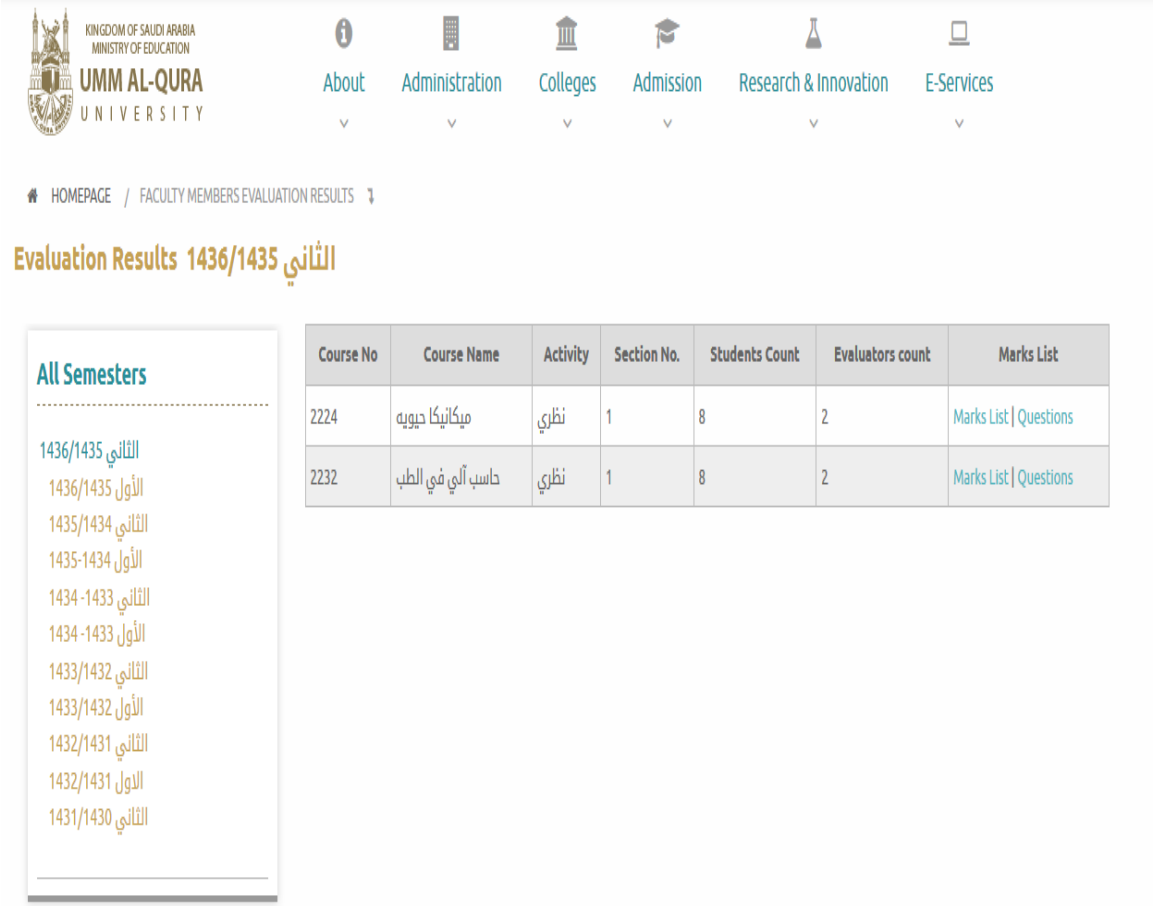
In this report, courses were surveyed (62% of all medical physics courses offered in the 2017 – 2018 for plan 33 (Abdeia Campus). A visual summary of the survey results follows, each part is followed by a table and chart indicating the response frequencies for each part in the survey as well as the question mean where appropriate.

Most of the respondents, in the courses that surveyed, were satisfied and mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being "nice," "caring about the subject," and "patient," were frequent. Many answers also focus on the course itself, whether it was "well organized and structured," considered "relevant" to the academic program, and "interesting" that improved their skills effectively

The feedback of the courses surveys revealed that as the program is an applied one, there is a need for more workshop and field training in addition to increase the practical part especially in some theoretical courses such as laser in medicine, heath physics and physics of radiation effects courses. Moreover, respondents commented on the need to increase credit hours of some courses since the content of these courses were not reasonable with their credit hours. However, there was a stratification overall the courses, the lack of resources and technology affect to some extent on the improvement of their communication skills.*(Appendix)*

1. List courses taught during the year. Indicate for each course, whether student evaluations were undertaken and/or other evaluations made of the quality of teaching. For each course indicate if action is planned to improve teaching.

Although the survey about the course was done periodically every semester through the previous years between 1430-1436.



Since, it was suspended in the previous due to some technical complications to improve the University survey system to change it into an electronic form.

Therefore, to carry out these surveys concerning the courses and the program, the courses could be evaluated by different surveys, which were performed using hard copy paper forms.

But, the program coordinators intend to make them electronically using Google Form Survys. This will be done by sending the course survey link to the students to fill it. Then, the survey results will be analyzed to evaluate the progress of the courses as well as the program as a whole.

1. List courses taught during the year. Indicate for each course, whether student evaluations were undertaken and/or other evaluations made of the quality of teaching. For each course indicate if action is planned to improve teaching.

Course Title/Course Code		Student Evaluations		Other Evaluation (Specify)	Action Planned	
		Yes	No		Yes	No
English (1)	4800170		√			
[Mathematics (1)] Introduction to Mathematics	4800140		√			
General Physics (1)	4800130		√	Exam Satisfaction questionnaire	Yes	
Computer skills (1)	4800150		√			
Basic Computer programming skills (2)	4800153		√			
Learning and studying skills	4800104		√			
English (2) Technical English skills	4800171		√			
[Mathematics (2)] Introduction to Mathematics	4800141		√			
General Physics (2)	403200		√	Exam Satisfaction questionnaire		
Method in Theatrical Physics (1)	403243		√	Exam Satisfaction questionnaire		
Cell Biology	401211		√			
Biology (1): zoology	401102		√			
General Chemistry	402101		√			
Islamic Culture (1)	601101		√			
Holly Quran (1)	605101		√			
Fundamental of Medical Physics	403280	√		Exam Satisfaction questionnaire		

Classical Mechanics (1)	403220		√	Exam Satisfaction questionnaire		
Method in Theatrical Physics (2)	403244		√	Exam Satisfaction questionnaire	Yes	
Animal Biology	401364		√			
Islamic Culture (2)	601201		√			
Laser in Medicine	403381	√		Student Program survey Exam Satisfaction questionnaire		
Health Physics	403383	√		Student Program survey Exam Satisfaction questionnaire		
Physics of Radiation effects	403384	√		Student Program survey Exam Satisfaction questionnaire		
Modern Physics	403350		√	Student Program survey Exam Satisfaction questionnaire		
Electromagnetism (1)	403201		√	Student Program survey Exam Satisfaction questionnaire		
Islamic culture (3)	601301		√			
Holly Quran (3)	605301		√			
Arabic language	501101		√			
Medical radiation Physics (1)	403385	√		Student Program survey Exam Satisfaction questionnaire		
Physics of Radiation Therapy (1)	403386	√		Student Program survey Exam Satisfaction questionnaire		
Radiation Protection	403388	√		Student Program survey Exam Satisfaction questionnaire		
Physics of Medical Imaging	403389	√		Student Program survey Exam Satisfaction questionnaire		
Physics of Ultrasound in Medicine	403390	√		Student Program survey Exam Satisfaction questionnaire		
Computing in Medicine	403391	√		Student Program survey Exam Satisfaction questionnaire		
Quantum Mechanics (1)	403344		√	Student Program survey Exam Satisfaction questionnaire		

Islamic Culture (4)	601401		√			
Medical Radiation Physics (2)	403492	√		Student Program survey Exam Satisfaction questionnaire		
Physics of Radiation Therapy (2)	403493	√		Student Program survey Exam Satisfaction questionnaire		
Nuclear Medicine	403495	√		Student Program survey Exam Satisfaction questionnaire		
Physic of Bio-material	403496	√		Student Program survey Exam Satisfaction questionnaire		
Solid State Physics (1)	403370		√	Student Program survey Exam Satisfaction questionnaire		
Profit History	102101		√			
Holly Quran (4)	605401		√			
Training project	403498	√		Student Experience Survey Student Program survey		

See Curriculum of the Physics Program

(Add items or attach list if necessary)

2. List All Campus Branch/Locations (approved by the Ministry of Higher Education or Higher Council of Education).

Campus Branch/Location	Approval By	Date
Main Campus:		
1: Umm Al-Qura Universirty/ Abedia	The department council	1431 (Plan 1433)
2: Umm Al-Qura Universirty/ Al Zaher	The department council decided to suspend the enrollment female students due to some circumstances.	The enrollment was suspended since 1435 A. H
3:		
4:		

List all courses taught by this program and for this program that are in other programs (if any).
See the study plan for the program

Course code	Course name	Credit hours	Faculty or Department
First year (the foundation year)			
Level 1 (Semester 1)			
4800170	**English (1)**	**6**	Foundation year deanship
4800140	**[Mathematics (1)]** **Introduction to Mathematics**	**4**	Foundation year deanship
4800130	**General Physics**	**4**	Foundation year deanship
4800150	**Computer skills (1)**	**2**	Foundation year deanship
Level 2 (Semester 2)			
4800153	**Basic Computer programming skills (2)**	**3**	Foundation year deanship
4800104	**Learning and studying skills**	**3**	Foundation year deanship
4800171	**English (2)** **Technical English skills**	**4**	Foundation year deanship
4800141	**[Mathematics (2)]** **Introduction to Mathematics**	**4**	Foundation year deanship
Total		**30**	
Second year			
Level 3 (Semester 3)			
Course code	Course name	Credit hours	Faculty or Department
403200	**General Physics (2)**	**4**	Faculty of Applied Science / Dept of
403243	**Method in Theatrical Physics (1)**	**2**	Faculty of Applied Science / Dept of Physics

401211	**Cell Biology**	**4**	Faculty of Applied Science / Dept of
401102	**Biology (1): zoology**	**2**	Faculty of Applied Science / Dept of
402101	**General Chemistry**	**4**	Faculty of Applied Science / Dept of Chemistry
601101	**Islamic Culture (1)**	**2**	Faculty of Shari'a
605101	**Holly Quran (1)**	**2**	Faculty of Shari'a
Total		**20**	

Level 4 (Semester 4)

Course code	Course name	Credit hours	Faculty or Department
403280	**Fundamental of Medical Physics**	**4**	Faculty of Applied Science / Dept of Physics
403220	**Classical Mechanics (1)**	**3**	Faculty of Applied Science / Dept of
403244	**Method in Theatrical Physics (2)**	**3**	Faculty of Applied Science / Dept of Physics
401364	**Animal Biology**	**3**	Faculty of Applied Science / Dept of
601201	**Islamic Culture (2)**	**2**	Faculty of Arabic Language
605201	**Holly Quran (2)**	**2**	Faculty of Shari'a
Total		**17**	

Third year

Level 5 (Semester 5)

Course code	Course name	Credit hours	Faculty or Department
403381	**Laser in Medicine**	**2**	Faculty of Applied Science / Dept of
403383	**Health Physics**	**3**	Faculty of Applied Science / Dept of
403384	**Physics of Radiation effects**	**2**	Faculty of Applied Science / Dept of
403350	**Modern Physics**	**4**	Faculty of Applied Science / Dept of

403201	**Electromagnetism (1)**	**3**	Faculty of Applied Science / Dept of Physics
601301	**Islamic culture (3)**	**3**	Faculty of Shari'a
605301	**Holly Quran (3)**	**2**	Faculty of Shari'a
501101	**Arabic language**	**2**	Faculty of Arabic Language
Total		**21**	
Level 6 (Semester 6)			
Course code	Course name	Credit hours	Faculty or Department
403385	**Medical radiation Physics (1)**	**4**	Faculty of Applied Science / Dept of Physics
403386	**Physics of Radiation Therapy (1)**	**4**	Faculty of Applied Science / Dept of Physics
403388	**Radiation Protection**	**2**	Faculty of Applied Science / Dept of Physics
403389	**Physics of Medical Imaging**	**3**	Faculty of Applied Science / Dept of Physics
403390	**Physics of Ultrasound in Medicine**	**2**	Faculty of Applied Science / Dept of Physics
403391	**Computing in Medicine**	**1**	Faculty of Applied Science / Dept of Physics
403344	**Quantum Mechanics (1)**	**3**	Faculty of Applied Science / Dept of Physics
601401	**Islamic Culture (4)**	**2**	**Faculty of Shari'a**
Total		**21**	
Fourth year **Level 7 (Semester 7)**			
Course code	Course name	Credit hours	Faculty or Department

403492	**Medical Radiation Physics (2)**	**4**	Faculty of Applied Science / Dept of Physics
403493	**Physics of Radiation Therapy (2)**	**3**	Faculty of Applied Science / Dept of Physics
403495	**Nuclear Medicine**	**4**	Faculty of Applied Science / Dept of Physics
403496	**Physic of Bio-material**	**3**	Faculty of Applied Science / Dept of Physics
403370	**Solid State Physics (1)**	**3**	Faculty of Applied Science / Dept of Physics
102101	**Profit History**	**2**	Faculty of Shari'a
605401	**Holly Quran (4)**	**2**	Faculty of Shari'a
Total		**21**	
Level 8 (Semester 8)			
Course Code	Prerequisite	Course name	Credit hours
403498	Dept. acceptance	Training project	5 Hrs
Total		**5**	

3. Program Learning Outcome Assessment. Design a program learning outcome assessment plan using the NCAAA accreditation four year cycle. By the end of the four year cycle all program learning outcomes are to be assessed using KPIs with benchmarks and analysis, national or international standardized testing if available, rubrics, exams and grade analysis, or some alternative scientific measure of student performance.

See the course report and specification of the Program.

KPI #	NQF Learning Domains and Learning Outcomes	Method of Assessment	Date of Assessment
1.0	**Knowledge**		
a1.	**Acquire the major aspects of nature and subject of**	- Demonstrating the basic	

medical physics and the application of physics to medicine. **a2. List matter in various forms, including crystals, semiconductors, atoms, nuclei and understand the principles of laser and its application in medicine.** **a3. Recognize Bioinformatics in order to know how to analysis data which is used to diagnose with the aid of different medical devices such as X- ray machines, gamma camera, accelerator and nuclear magnetic resonance.** **a4. Define different quantitative, mathematical science and physical tools analyze problems and list some foundations of systems theory to solve and analysis different problems.** **a5. Recognize the nature, properties, dosimetery of radiation and basics of radiation protection and also medical effects of ionizing and non-ionizing radiation.** **a6. Outline the principles of physics of different medical radiation devices and their modern advances, especially in medical radiation therapy and different applications in medical physics.**	principles through lectures. 2. Discussing phenomena with illustrating pictures and diagrams 3. Lecturing method: Board, Power point 4. Discussions 5. Brain storming 6. Start each chapter by general idea and the benefit of it.	Solve some example during the lecture. Exams: a) Quizzes (E-learning) b) Short exams (mid-term exams) c) Long exams (final) d) Oral exams E) Discussions during the lectures. F) Home work. G) Discussions during the class.
2.0	**Cognitive Skills**		
b1. Reorganize mathematical and physical formulas and demonstrate skills of critical thinking and analytical reasoning to solve problems in medical physics and related fields of studies. **b2. Interpret the data obtained from testing, diagnostic instruments such as MRI, X-rays, ultrasonic images, CT images and gamma camera images.** **b3. Analyze and apply the mathematical expressions in evaluating and understanding of essential facts, concepts, principles and theories of medical physics.** **b4. Formulate and test hypotheses using appropriate experimental design and analysis of data (Computer simulation) and integrate IT-based solutions into the user environment effectively.**	Traditional classroom, discussions and individual meeting with the instructor (encouraging students to discuss different topics outside the classroom).	- Class participation. - Graded homework. - Shorter exams (1st & 2nd periodic Exam). - Final Exam.
3.0	**Interpersonal Skills & Responsibility**		

b1. Reorganize mathematical and physical formulas and demonstrate skills of critical thinking and analytical reasoning to solve problems in medical physics and related fields of studies. **b2. Interpret the data obtained from testing, diagnostic instruments such as MRI, X-rays, ultrasonic images, CT images and gamma camera images.** **b3. Analyze and apply the mathematical expressions in evaluating and understanding of essential facts, concepts, principles and theories of medical physics.** **b4. Formulate and test hypotheses using appropriate experimental design and analysis of data (Computer simulation) and integrate IT-based solutions into the user environment effectively.**	- Discuss with students. - Group presentation. - Group Assignment.	- Evaluation of group reports and individual contribution within the group. - Peer or self assessment
4.0	**Communication, Information Technology, Numerical**	
d1. illustrate and employ the processes of scientific inquiry and research methods through use effectively information and communications technology (IT) tools and use the basic software, to ensure global understand of medical physics issues. **d2. Demonstrate scientific concepts and analytical argument, in a clear and organized way, verbally and on writing.** **d3.implement all kinds of relevant information in medical physics through the use of local and internationally accessible libraries, information database, and electronic data and use that information in problem solving activities.** **d4. Work independently and demonstrate the ability to manage time and to work as a part of a team, and learn independently with open– mindedness to learn how solve the daily life problems.**	- Essay questions - Group presentation - Encouraging assays, reports and presentations Encouraging assays, reports and presentations Group assignments, homework's and encouraging group projects	- Instructor's feedback - Final and short exam exams include different problems need numerical and technical skills - Assessments of student's assignments - Evaluation of group reports and individual contribution within the group. Reports and presentations.
5.0	**Psychomotor**	
NA	E-learning Practical exams.	Date of lectures

Provide an analysis of the Four (five/six) Year Program Learning Outcome Assessment Cycle (List strengths and recommendations). Provide "direct assessments" for the current year's program learning outcomes, according to the dates provided above outcomes are to be assessed and reported in the ***Annual Program Report***(s). Normally a program has 6 to 8 program learning outcomes. Therefore 1 to 3 lear
ning outcomes are directly assessed each year.

The KPI table is used to document directly assessed program learning outcomes. Assessments methods may
include: national or international standardized test results, rubrics, exams and grade analysis, or learning
achievement using an alternative scientific assessment system (copy the ***KPI Assessment Table*** and paste to
make additional tables as needed).

KPI Assessment Table (Institutionally approved for the program)

KPI # _____ Program KPI: _____ _____	
Assessment Year _____ Program Learning Outcome: _____ _____ _____	
NQF Learning Domain	
Target Benchmark	
KPI Actual Benchmark	
Internal Benchmark	
External Benchmark	
New Target Benchmark	
Analysis: (List strengths and recommendations)	

3. Orientation programs for new teaching staff Orientation programs provided? Yes ✓ No If offered how many participated? All Members
a-Brief Description

At the beginning of every academic year the Quality and Development Deanship arrange an introductory program for the new staff
b. List recommendations for improvement by teaching staff. Extra training courses are needed in specific areas like E-learning, and website managements

4. Professional Development Activities for Faculty, Teaching, and Other Staff a. Activities Provided	How many Participated	
	Teaching Staff	Other Staff
4. Professional Development Activities for Teaching staff and Others Staff a. Organized Activities	59	20

b. Summary of the comments concerning the effectiveness of the later activities based on participants evaluations The continuing progress of teaching process performance through workshops related to SDL, blended learning affects the achievement of PLOs

c. If orientation programs were not provided, give reasons.

H.

1. Matters Raised by Evaluator Giving Opinion	Comment by Program Coordinator
2. Implications for Planning for the Program	

Appendix

Report #1: Students' feedback from program evaluation survey (PES) in 2017-2018 Plan 33 (Abdeia Campus)

Program evaluation surveys are conducted to analyze the feedback of students for overall services and facilities in terms of education, resources, learning, overall evaluation, future support, suggestions for improvements and their likeness and dislikes for the program especially and the department in general. So, it can help the department at different levels to revise and plan the process. It can also be helpful for the department to hear a true voice and feedback of students anonymously for taking steps towards the improvements and seeing with the perception of students. It also measures the satisfaction rate, which is very important for any organization for planning and strategic process towards the further development.

Research Method

Students from level 5 up to level 8 were invited to participate in an online survey about The medical physics program evaluation. The survey was active for about two weeks, from November 1 to November 15, 2017.

The survey included 25 questions. Most respondents took between 15 to 20 minutes to complete. Survey questions were divided into four sections:

- *Help and Support in Learning questions* about the instructors' role in supporting, consultation, and caring students' progress in the program.
- *Resources to Support Learning questions* about the library resources, classrooms and labs quality, computing facilities, religious observances, and extracurricular activities
- *Evaluation of Learning questions* about working effectively in groups, and career skills communication improvement.
- *Overall Evaluation* question to indicate the degree of satisfaction of respondents about the program as it is an applied program related to the work in the field

Survey respondents rated the importance of appling data using a five-point scale, ranging from 1 = strongly disagree to 5 = strongly agree. They also responded to 2 open ended questions and provided written responses via text boxes. Refer to Appendix A for a copy of the survey

Analysis of Results

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. Additionally, writing responses were reviewed and summarized.

However, the students taken this survey is 44 in total, only 9.1% of them are graduate students (level 8), while the rest of the students taken the survey are from level 5 up to level 7 to have a feedback of the program at levels of specialty. About 50 % of students are from level 7 since students finish all their academic courses of the program at this level before training in field in level 8. The percent of students participated in this survey for each level are represented in the graph below:

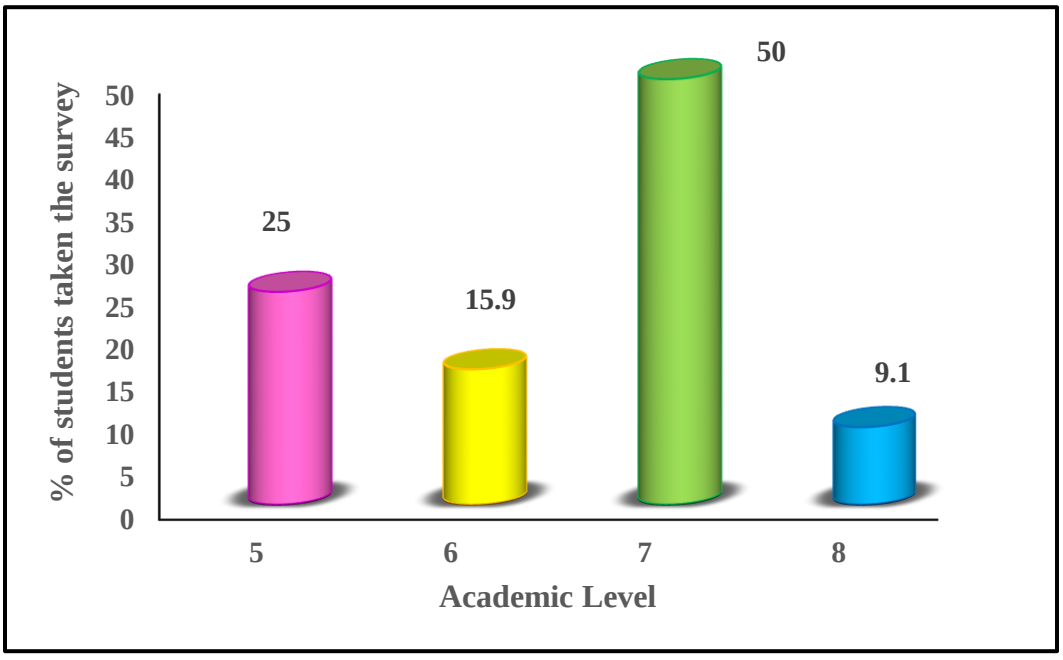


Fig.1: The percent of students participated in the program evaluation survey for each academic level from level 5 up to level 8.

Part 1:

In program evaluation survey, part 1 contains 7 questions about “Help and Support in Learning”.

Part 1: Help and Support in Learning														
Q. No.	Question 1		Question 2		Question 3		Question 4		Question 5		Question 6		Question 7	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Percent of respondents	Percent of respondents	Percent of respondents	Percent of respondents	Percent of respondents	Percent of respondents
Strongly agree	**22**	**50.8**	**24**	**54.5**	**21**	**47.7**	**18**	**40.9**	**26**	**59.1**	**23**	**52.3**	**22**	**50**
Agree	**16**	**36.4**	**13**	**29.5**	**15**	**34.1**	**15**	**34.1**	**11**	**25**	**14**	**31.8**	**11**	**25**
neutral	**6**	**12.8**	**5**	**11.4**	**4**	**9.1**	**9**	**20.5**	**5**	**11.4**	**6**	**13.6**	**9**	**20.5**
Disagree	**0**	**0**	**2**	**4.6**	**4**	**9.1**	**1**	**2.25**	**2**	**4.5**	**1**	**2.3**	**2**	**4.5**
Strongly Disagree	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2.25**	**0**	**0**	**0**	**0**	**0**	**0**
Total	44	100%	44	100%	44	100%	44	100%	44	100%	44	100%	44	100%

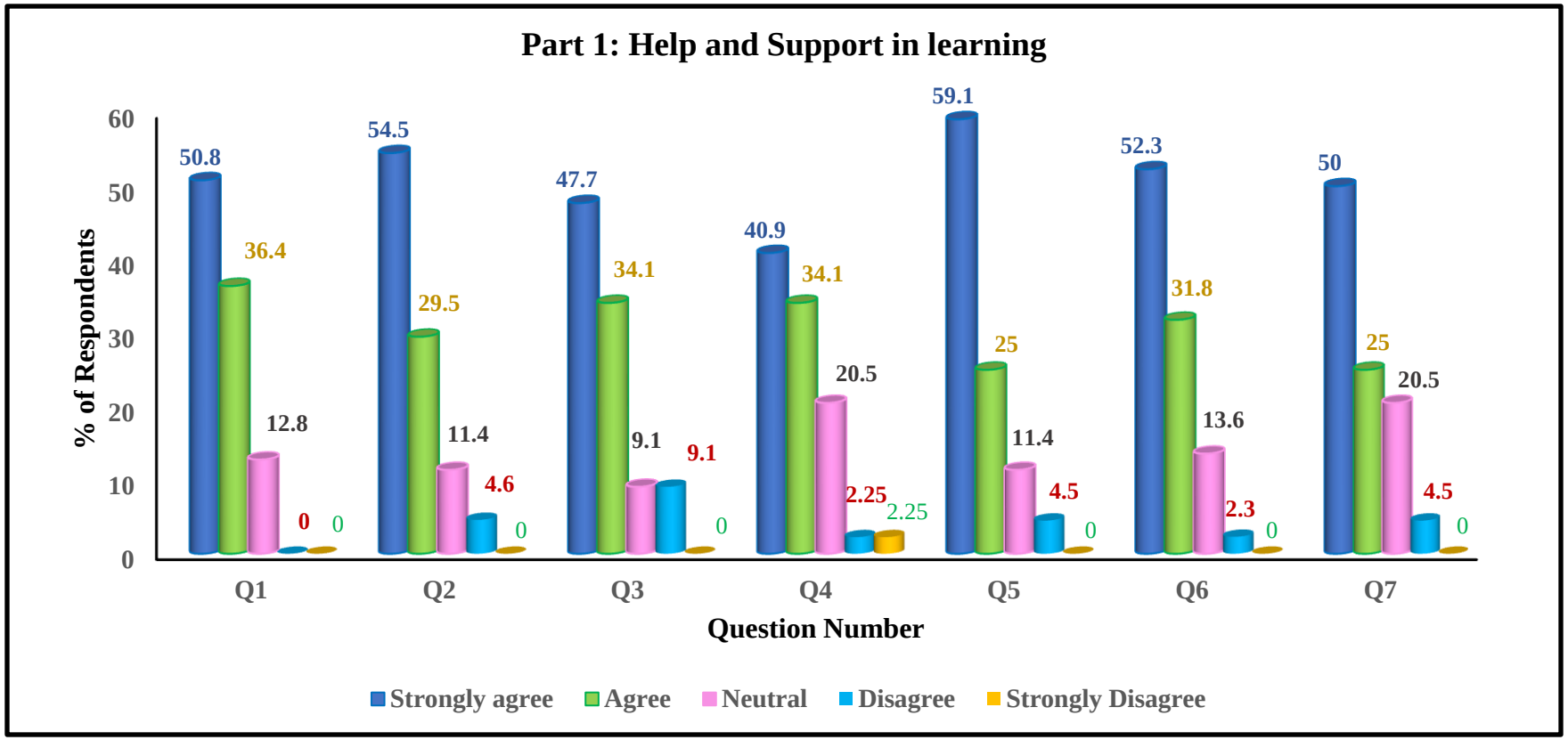


Fig.2: The percent of respondents for each question in Part 1, Help and Support in Learning, of the program evaluation survey

The program surveyed by a total of 44 students. The results of part 1 (Help and Support in Learning) showed that 100 % students responded to the questions of this part. Overall, 82% of responses were “Agree” and favorable toward satisfaction, 11.5% of responses were “Neutral”, 4.5% of responses were “Disagree”, and 0% had no responses.

Questions 1,2,5 and 6 yielded the the largest number of “Agree” responses with 85% of respondents agreeing that they felt supported by their instructors and felt they had someone to talk to in everything related to their academic program.

The the largest number of “Disagree” responses corresponds to Question 3. Almost 9% of respondents disagreed with the statements indicating they helped to make all their efforts in their academic education.

Part 2:

In program evaluation survey, part 2 contains 7 questions about “Resources to support Learning”.

Part 2: Resources to Support Learning														
Q. No.	Question 8		Question 9		Question 10		Question 11		Question 12		Question 13		Question 14	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	**24**	**54.5**	**29**	**65.9**	**24**	**54.5**	**22**	**50**	**18**	**40.9**	**31**	**70.5**	**29**	**65.9**
Agree	**10**	**22.7**	**8**	**18.2**	**12**	**27.3**	**15**	**34.1**	**9**	**20.5**	**7**	**15.9**	**6**	**13.6**
neutral	**8**	**18.2**	**6**	**13.6**	**5**	**11.4**	**5**	**11.4**	**8**	**18.2**	**5**	**11.4**	**6**	**13.6**
Disagree	**1**	**2.3**	**0**	**0**	**2**	**4.5**	**1**	**2.25**	**4**	**9.1**	**1**	**2.2**	**2**	**4.5**
Strongly Disagree	**1**	**2.3**	**1**	**2.3**	**1**	**2.3**	**1**	**2.25**	**5**	**11.4**	**0**	**0**	**1**	**2.4**
Total	44	100%	44	100%	44	100%	44	100%	44	100%	44	100%	44	100%

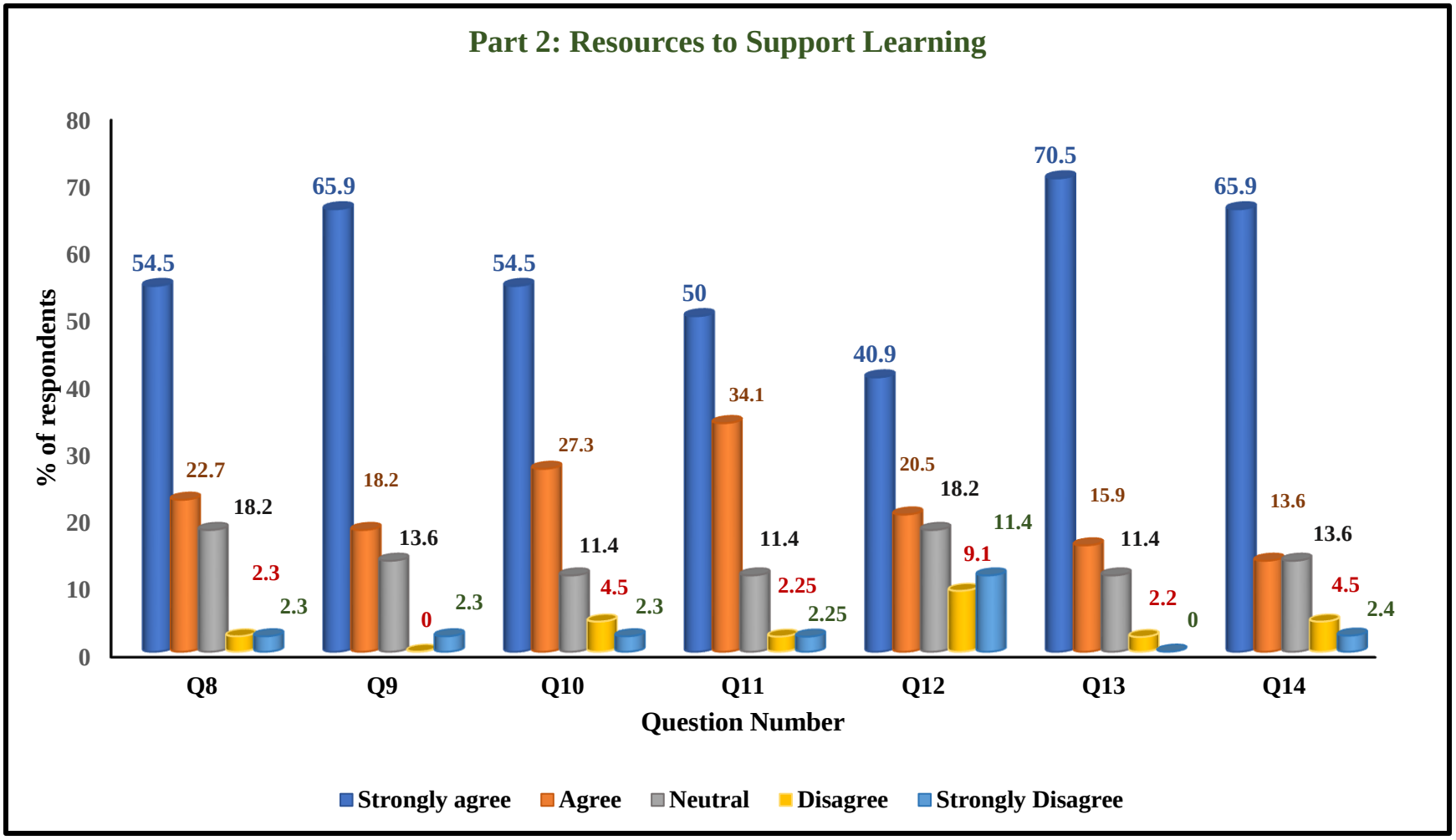


Fig.3: The percent of respondents for each question in Part 2, Resources to Support Learning, of the program evaluation survey

The program surveyed a total of 44 students. The results of part 2 (Resources to Support Learning) showed that 100 % students responded to the questions of this part. Overall, 80% of responses were “Agree” and favorable toward satisfaction, 13 % of responses were “Neutral”, 6.5 % of responses were “Disagree”, and 0% had no responses.

Questions 9, 10, 11, and 13 yielded the the largest number of “Agree” responses with 84% of respondents agreeing that they were satisfied with the availability of both library resources and religious observances, in addition to the good quality of the classrooms and computing facilities.

The the largest number of “Disagree” responses corresponds to Question 12. Almost 20 % of respondents disagreed with the statements indicating that adequate availability for extracurricular activities including sports and recreational activities.

Part 3:

In program evaluation survey, part 3 contains 7 questions about “Evaluation of Learning”. The results are stated

Part 3: Evaluation of Learning														
Q. No.	Question 15		Question 16		Question 17		Question 18		Question 19		Question 20		Question 21	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	**25**	**56.8**	**26**	**59.1**	**18**	**40.9**	**19**	**43.2**	**19**	**43.2**	**19**	**43.2**	**21**	**47.7**
Agree	**14**	**31.8**	**10**	**22.7**	**18**	**40.9**	**18**	**40.9**	**18**	**40.9**	**16**	**36.4**	**16**	**36.4**
neutral	**5**	**11.4**	**7**	**15.9**	**7**	**15.9**	**5**	**11.4**	**6**	**13.6**	**8**	**18.2**	**7**	**15.9**
Disagree	**0**	**0**	**1**	**2.3**	**1**	**2.3**	**2**	**4.5**	**1**	**2.3**	**1**	**2.2**	**0**	**0**
Strongly Disagree	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	44	100%	44	100%	44	100%	44	100%	44	100%	44	100%	44	100%

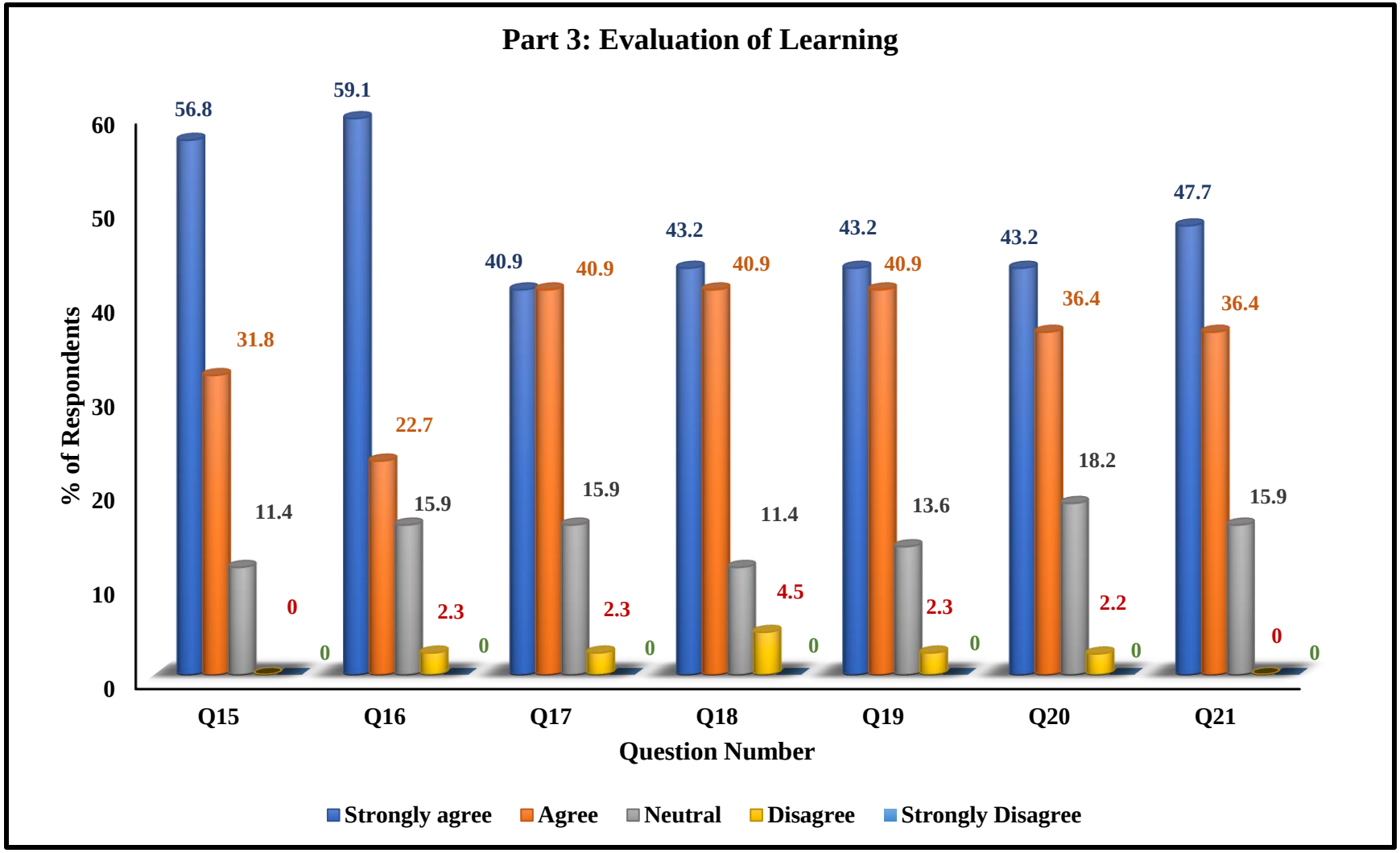


Fig.4: The percent of respondents for each question in Part 3, Evaluation of Learning, of the program evaluation survey

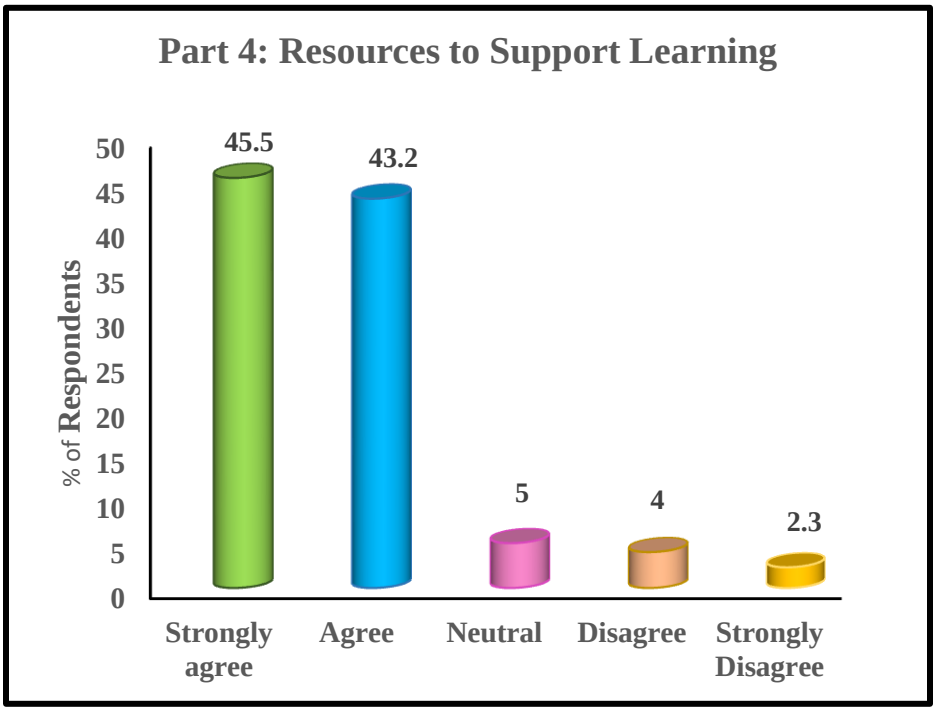
The program surveyed a total of 44 students. The results of part 3 (Evaluation of Learning) showed that 100 % students responded to the questions of this part. Overall, 84% of responses were “Agree” and favorable toward satisfaction, 15 % of responses were “Neutral”, 2.3 % of responses were “Disagree”, and 0% had no responses.

Questions 15, 18, 19, and 21 yielded the the largest number of “Agree” responses with 84% of respondents agreeing that they felt an improvement in their communication skills, in addition to the ability to work effectively in groups.

The the largest number of “Disagree” responses corresponds to Question 18. Almost 4.5 % of respondents disagreed with the statements indicating that improvement of the carrier communication skills in the field.

Part 4:

This question is to assess the "Overall Evaluation". The results of part 5 (Overall Evaluation) showed that 100 % students responded to the questions of this part, 83.7 % showed the satisfaction and 5% neutral where 6.3 % showed their dissatisfaction and overall it gives a satisfactory response to this service. The percent of respondents to this part of the program evaluation survey is represented in the graph below:



Part 5:

Part 5 contains 2 open ended questions asking the students about their likeness and dislikes for the program. 95 % of students responded to these questions. Most of the students stated that courses related to medical physics major were very useful and entertain able. They liked their major because of some Instructors who were very helpful to them. Additionally, the most things that they liked is the way of teaching which affected their ability to work effectively and liked the activities because it improved their skills in the field.

Most of the students disliked the lack of both sports facilities and extracurricular activities like trips, etc. Students also commented on their needs for more workshops and training in the field. Moreover, the practical part of the program was not enough for them and expressed about their need for more practicing on the field.

Report #2: Academic staff feedback from program evaluation survey (PES) in 2017-2018 Plan 33 (Abdeia Campus)

To uphold the mission of the department, the departmental committee places high importance on continually assessing academic members' teaching and research needs, satisfaction, and feedback. This allows the departmental committee to provide the highest quality of care to the academic members. In reviewing the results from the 2017 academic staff satisfaction survey, several recommendations have been recorded based on data analysis, which further support the departmental committee in meeting the needs of academic staff in teaching, research and administrative work improvements.

Research Method

All academic staff of physics department were invited via e-mail (Refer to Appendix A for the official document sent) to participate in an online survey about academic program evaluation. The survey was active for about two weeks, from November 1 to November 15, 2017.

The survey included 21 questions. Most respondents took between 15 to 20 minutes to complete. Survey questions were divided into four sections:

- *Teaching Environment questions* about the satisfaction of teaching load, academic counseling, and communication with students to follow their progress in the program.
- *Research-Related Activities questions* about the availability of research equipment, library resources, fund and scientific and private organizations' collaboration.
- *Administrative Work questions* about work environment, clarity and transparency in administrative dealing and university support for staff
- *Overall Atmosphere in the Department* question to indicate the degree of satisfaction of respondents about the teaching, research and administrative services in the department.

Survey respondents rated the importance of applying data using a five-point scale, ranging from 1 = strongly disagree to 5 = strongly agree. They also responded to one open ended question and provided written responses via text boxes. Refer to Appendix B for a copy of the survey.

Analysis of Results

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. Additionally, writing responses was reviewed and summarized.

However, the academic staff in the department taken this survey is ----- in total, only 30 of them responded to this survey. The percent of medical physics versus the physics staff participated in this survey is represented in the graph below

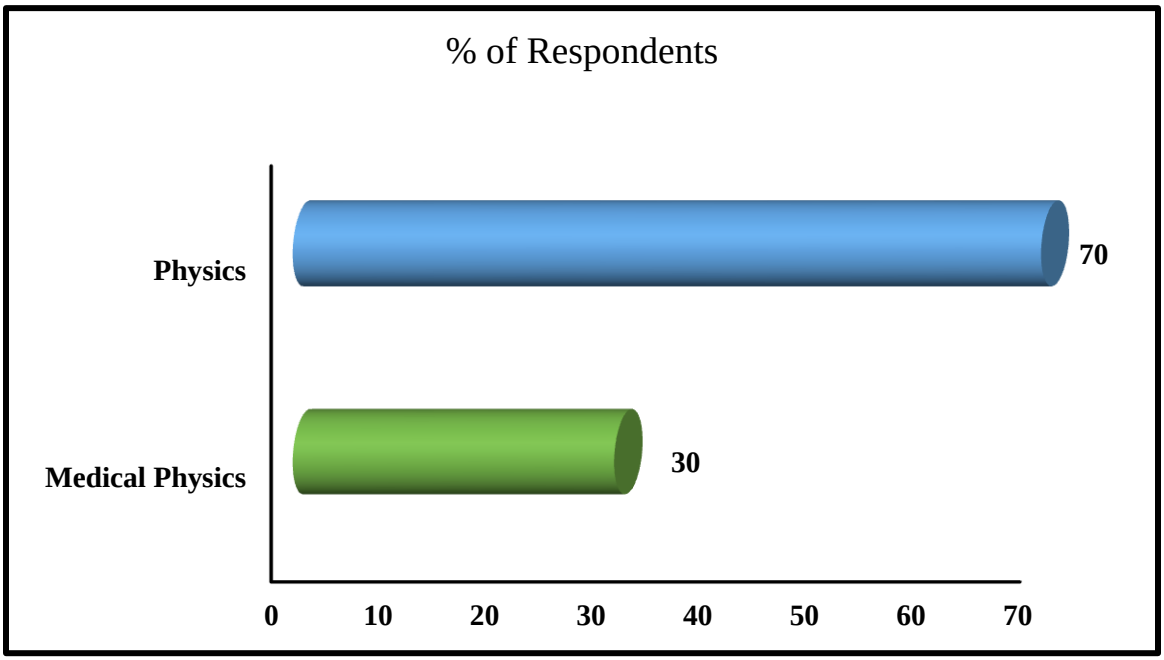


Fig.1: the percent of medical physics versus physics staff responded the academic service evaluation survey

Part 1:

Part 1: Teaching Environment												
Q. No.	Question 1		Question 2		Question 3		Question 4		Question 5		Question 6	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Percent of respondents	Percent of respondents	Percent of respondents	Percent of respondents
Strongly agree	**2**	**6.7**	**1**	**3.3**	**3**	**10**	**4**	**13.3**	**3**	**10**	**4**	**13.3**
Agree	**12**	**40**	**8**	**26.7**	**16**	**53.3**	**12**	**40**	**19**	**63.3**	**19**	**63.3**
neutral	**9**	**30**	**14**	**46.7**	**6**	**20**	**9**	**30**	**6**	**20**	**5**	**16.7**
Disagree	**4**	**13.3**	**4**	**13.3**	**3**	**10**	**2**	**6.7**	**1**	**3.4**	**1**	**3.4**
Strongly Disagree	**3**	**10**	**3**	**10**	**2**	**6.7**	**3**	**10**	**1**	**3.3**	**1**	**3.3**
Total	30	100%	30	100%	30	100%	30	100%	30	100%	30	100%

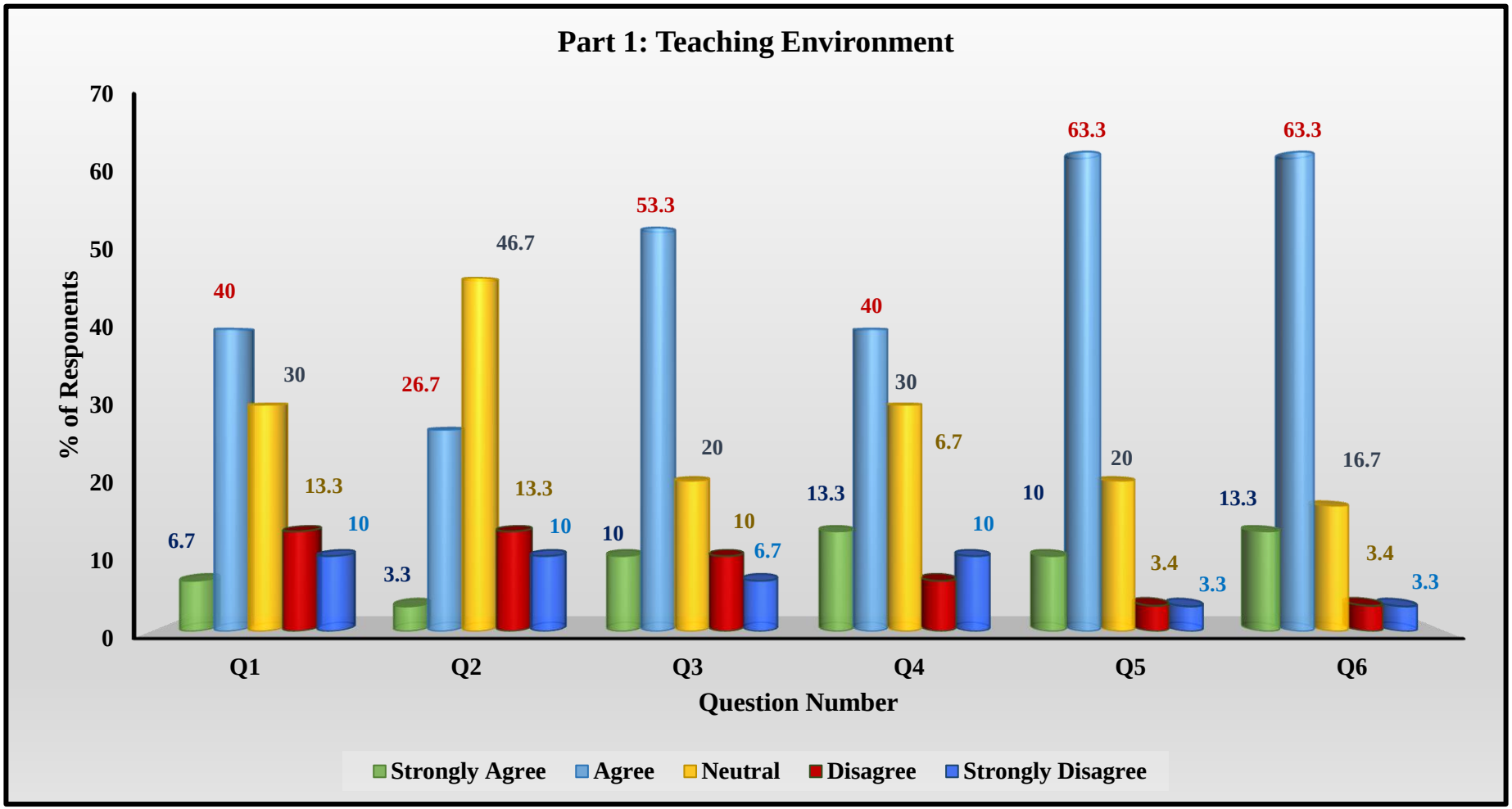


Fig.2: The percent of respondents for each question in Part 1, Teaching Environment, of the academic services evaluation survey

The academic staff services surveyed by a total of 30 academic staff. The results of part 1 (Teaching Environment) showed that 100 % of staff responded to the questions of this part. Overall, 65% of responses were “Agree” and favorable toward satisfaction, 23% of responses were “Neutral”, 12% of responses were “Disagree”, and 0% had no responses.

Questions 3,5 and 6 yielded the the largest number of “Agree” responses with 71% of respondents agreeing that they felt a good communication between staff and students and felt satisfied with the teaching load.

The the largest number of “Disagree” responses corresponds to Question 2. Almost 23.3% of respondents disagreed with the statements indicating they helped to make all their efforts in a teaching environment.

Part 2:

In program evaluation survey, part 2 contains 7 questions about “Research-Related Activities”. The results are

Part 2: Research-Related Activities														
Q. No.	Question 7		Question 8		Question 9		Question 10		Question 11		Question 12		Question 13	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	**1**	**3.4**	**0**	**0**	**3**	**10**	**1**	**3.3**	**3**	**10**	**1**	**3.3**	**1**	**3.3**
Agree	**4**	**13.3**	**4**	**13.3**	**17**	**56.7**	**11**	**26.7**	**8**	**26.7**	**8**	**26.7**	**1**	**3.4**
neutral	**9**	**30**	**11**	**36.7**	**8**	**26.7**	**14**	**46.7**	**11**	**36.7**	**12**	**40**	**10**	**33.3**
Disagree	**7**	**23.3**	**6**	**20**	**0**	**0**	**4**	**13.3**	**3**	**10**	**6**	**20**	**14**	**46.7**
Strongly Disagree	**9**	**30**	**9**	**30**	**2**	**6.6**	**3**	**10**	**5**	**16.7**	**3**	**10**	**4**	**13.3**
Total	30	100%	30	100%	30	100%	30	100%	30	100%	30	100%	30	100%

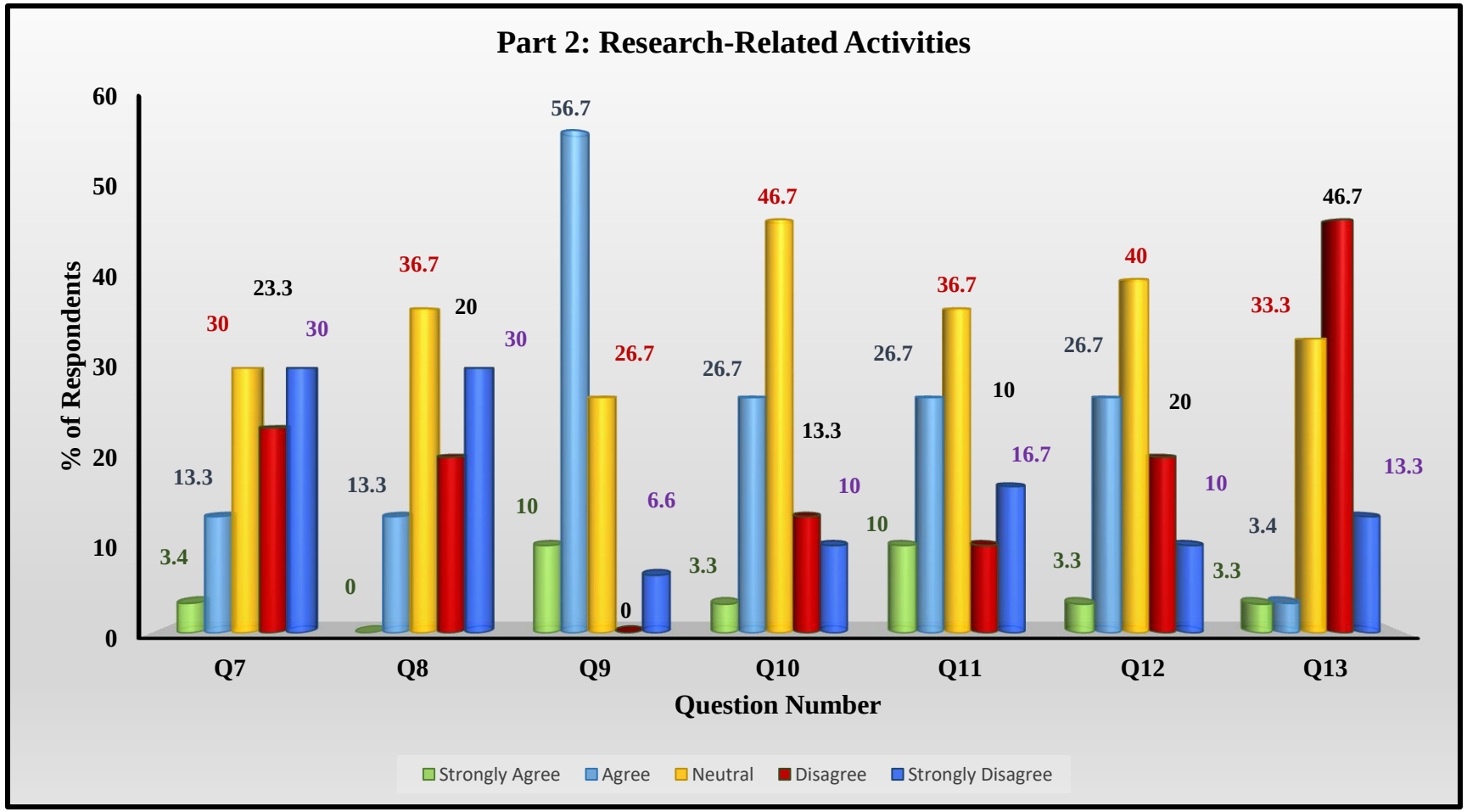


Fig.3: The percent of respondents for each question in Part 2, Research-Related Activities, of the academic services evaluation survey

The academic staff services surveyed by a total of 30 academic staff. The results of part 2 (Research-Related Activities) showed that 100 % of staff responded to the questions of this part. Overall, 30% of responses were "Agree" and favorable toward satisfaction, 35% of responses were "Neutral", 35% of responses were "Disagree", and 0% had no responses.

Question 3 yielded the largest number of "Agree" responses with 67% of respondents agreeing that they felt satisfaction of library resources and the services of SDL offered for researchers.

The largest number of "Disagree" responses corresponds to Questions1,2 and 7. Almost 50 % up to 60% (in question 7) of respondents disagreed with the statements indicating the availability of essential equipment for research and research assistants in addition to the leakage of cooperation with different scientific organizations and private sector.

Part 3:

In program evaluation survey, part 3 contains 7 questions about “Administrative Work”. The results are stated

Part 3: Administrative Work														
Q. No.	Question 14		Question 15		Question 16		Question 17		Question 18		Question 19		Question 20	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	**5**	**16.7**	**2**	**6.7**	**0**	**0**	**1**	**3.3**	**0**	**0**	**5**	**16.7**	**4**	**13.3**
Agree	**12**	**40**	**13**	**43.3**	**9**	**30**	**10**	**33.3**	**5**	**16.7**	**14**	**46.7**	**13**	**43.3**
neutral	**12**	**40**	**11**	**36.7**	**17**	**56.7**	**15**	**50**	**11**	**36.7**	**7**	**23.3**	**10**	**33.3**
Disagree	**1**	**3.3**	**3**	**10**	**3**	**10**	**2**	**6.7**	**9**	**30**	**1**	**3.3**	**0**	**0**
Strongly Disagree	**0**	**0**	**1**	**3.3**	**1**	**3.3**	**2**	**6.7**	**5**	**16.6**	**3**	**10**	**3**	**10**
Total	30	100%	30	100%	30	100%	30	100%	30	100%	30	100%	30	100%

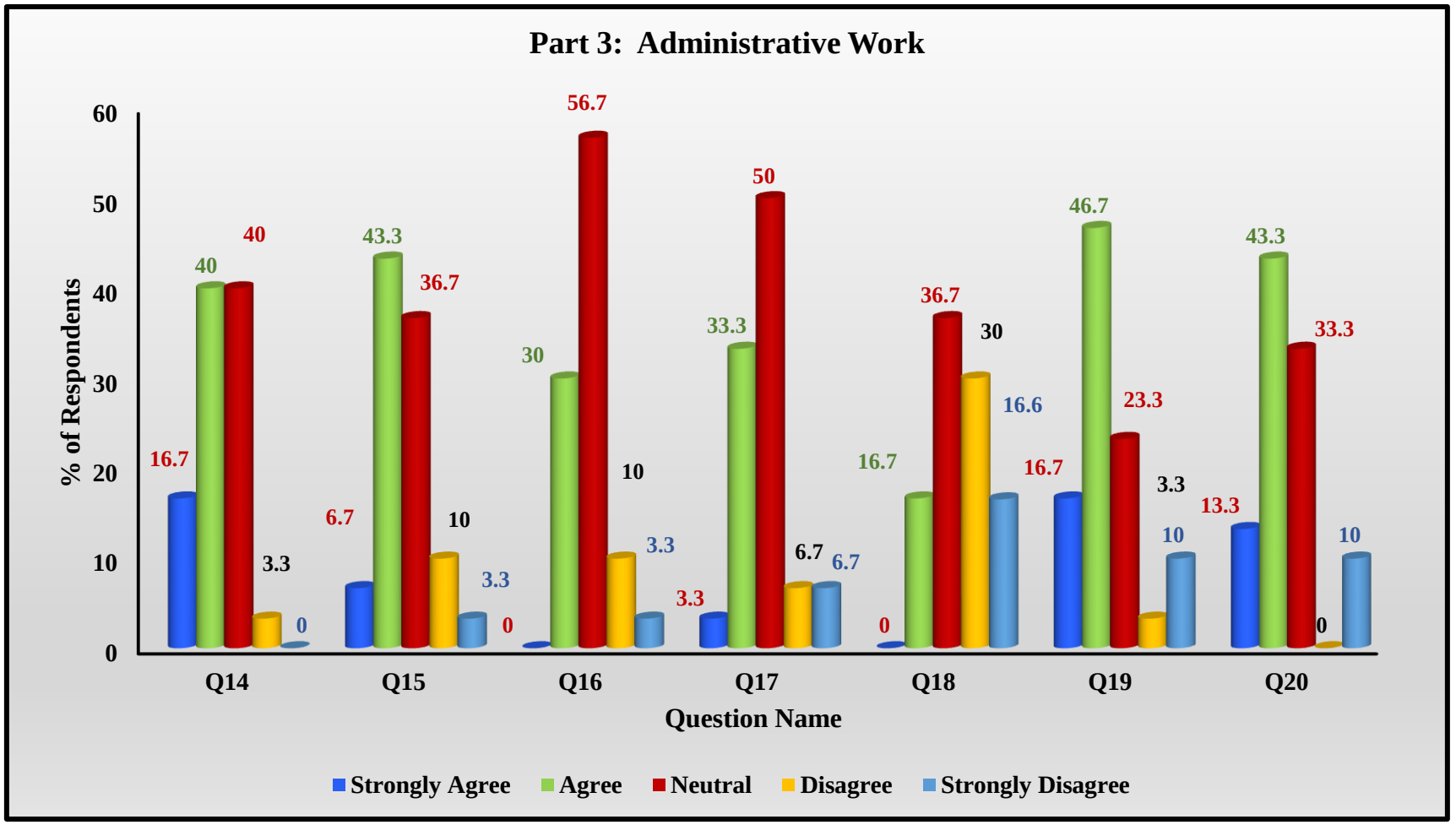


Fig.4: The percent of respondents for each question in Part 3, Administrative Work, of the academic services evaluation survey

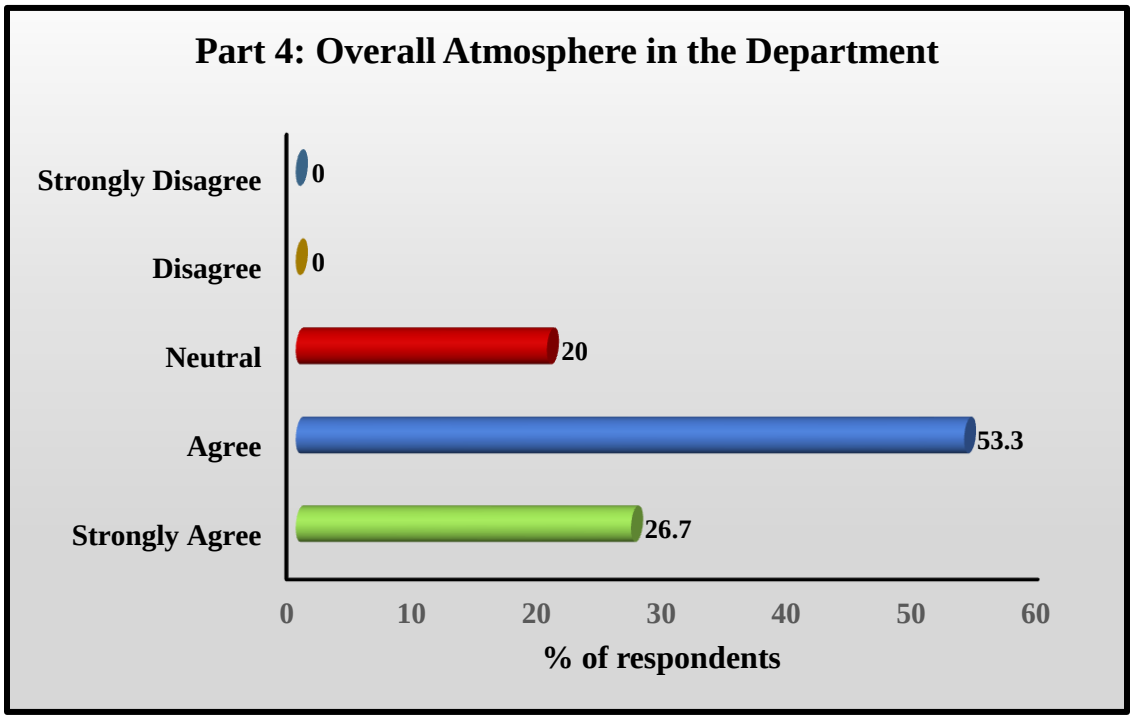
The academic staff services surveyed by a total of 30 academic staff. The results of part 3 (Administrative Work) showed that 100 % of staff responded to the questions of this part. Overall, 45% of responses were “Agree” and favorable toward satisfaction, 42% of responses were “Neutral”, 13% of responses were “Disagree”, and 0% had no responses.

Questions 1, and 7 yielded the largest number of “Agree” responses with 56 % of respondents agreeing that they felt satisfing of working in committees, in addition to job stability and security.

The largest number of “Disagree” responses corresponds to Question 5. Almost 46 % of respondents disagreed with the statements indicating the support from the university to communicate with external expertise.

Part 4:

This question is to assess the "Overall Atmosphere in the Department". The results of part 5 (Overall Evaluation) showed that 100 % staff responded to the questions of this part, 80% showed the satisfaction and 20% neutral where 0 % showed their dissatisfaction and overall it gives a satisfactory response to the academic services. The percent of respondents to this part of the program evaluation survey is represented in the graph below:



Part 5:

Part 5 contains one open ended question asking the students about their suggestion to improve the academic services offered to them. 10 % of staff responded to this question. The respondents suggested to arrange scientific visits and cooperation with different scientific organizations to meet the applied research needs in 2030 strategy view of KSA

Report #3: Students' feedback from courses evaluation survey (CES) in 2017-2018 Plan 33 (Abdeia Campus)

Student Opinion Surveys are an important tool for students to provide anonymous feedback at the end of a course about their instructors, course content, and their overall course experience. Moreover, student feedback enables students to comment formally on their experiences of courses attended, and to provide useful information to instructors and coordinators for planning and delivery of future courses. Feedback from students is compiled at the end of each semester and various reports are created.

In this report, courses were surveyed (62% of all medical physics courses offered in 2017 – 2018 for plan 33 (Abdeia Campus). A visual summary of the survey results follows, each part is followed by a table and chart indicating the response frequencies for each part in the survey as well as the question mean where appropriate.

Most of the respondents, in the courses that surveyed, were satisfied and mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being "nice," "caring about the subject," and "patient," were frequent. Many answers also focus on the course itself, whether it was "well organized and structured," considered "relevant" to the academic program, and "interesting" that improved their skills effectively

The feedback of the course surveys revealed that as the program is an applied one, there is a need for more workshop and field training in addition to increase the practical part especially in some theoretical courses such as laser in medicine, health physics and the physics of radiation effects courses. Moreover, respondents commented on the need to increase the credit hours of some courses since the content of these courses were not reasonable with their credit hours. However, there was a stratification over all the courses, the lack of resources and technology affect to some extent on the improvement of their communication skills.

Research Method

Medical physics students were invited to participate in an online survey about evaluation survey of courses of The medical physics program offered in the first semester (1438 – 1439H). The survey was active for about two weeks, from 4/4/1439H to 23/4/1439H.

The survey included 33 questions. Most respondents took between 15 to 20 minutes to complete. Survey questions were divided into three sections:

- ***Questions about the start of the course*** about the outline of the course, clarity of assessment methods, and availability of learning resources
- ***Questions about what happened during the course*** about the course tasks, the instructor, the resources, computing facilities, marks distribution and satisfaction of course materials and credit hours
- ***Evaluation of the Course*** about working effectively in groups, and career skills communication improvement.
- ***Overall Evaluation questions*** to indicate the degree of satisfaction of respondents about the course and the suggestion for improvement.

Survey respondents rated the importance of applying data using a five-point scale, ranging from 1 = strongly disagree to 5 = strongly agree. They also responded to 3 open ended questions and provided written responses via text boxes. Refer to *Appendix A* for a copy of the survey.

Analysis of Some Courses' Survey

Course Title: Laser in Medicine
Course Code: 403381
Instructor: Dr/ Hosam Ibrahim

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. Additionally, writing responses was reviewed and summarized.

However, the students taken this survey was 20 in total, only 17 of them (85%) responded to the survey. 5.8 % of respondents were at level 2, 5.9% were in level 4, 76.5% were at level 5, and 11.8% were in level 7. The percent of students participated in this survey for each level are represented in the graph below:

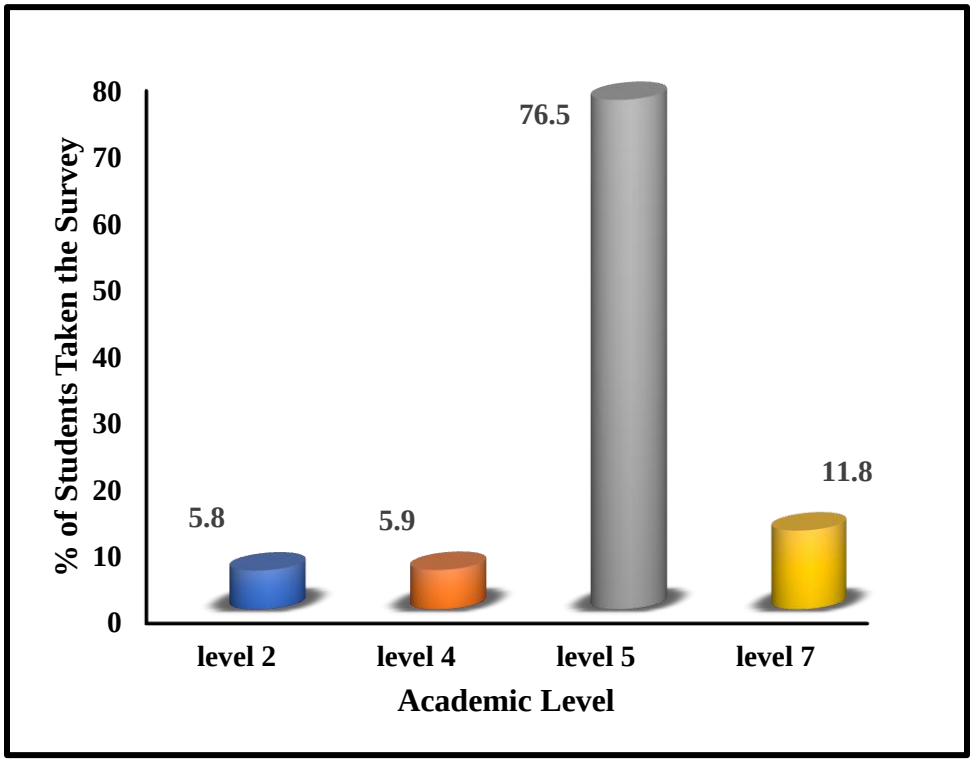


Fig.1: The percent of students participated in the radiation protection the course evaluation survey for each academic level.

Part 1:

In the course evaluation survey , part 1 contains 3 questions about “the start of the course”. The results are stated below:

Part 1: Questions about the start of the course:						
Q. No.	Question 1		Question 2		Question 3	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	10	58.8	8	47.1	8	47.1
Agree	5	29.4	9	52.9	7	41.2
neutral	2	11.8	0	0	2	11.8
Disagree	0	0	0	0	0	0
Strongly Disagree	0	0	0	0	0	0
Total	**17**	**100**	**17**	**100**	**17**	**100**

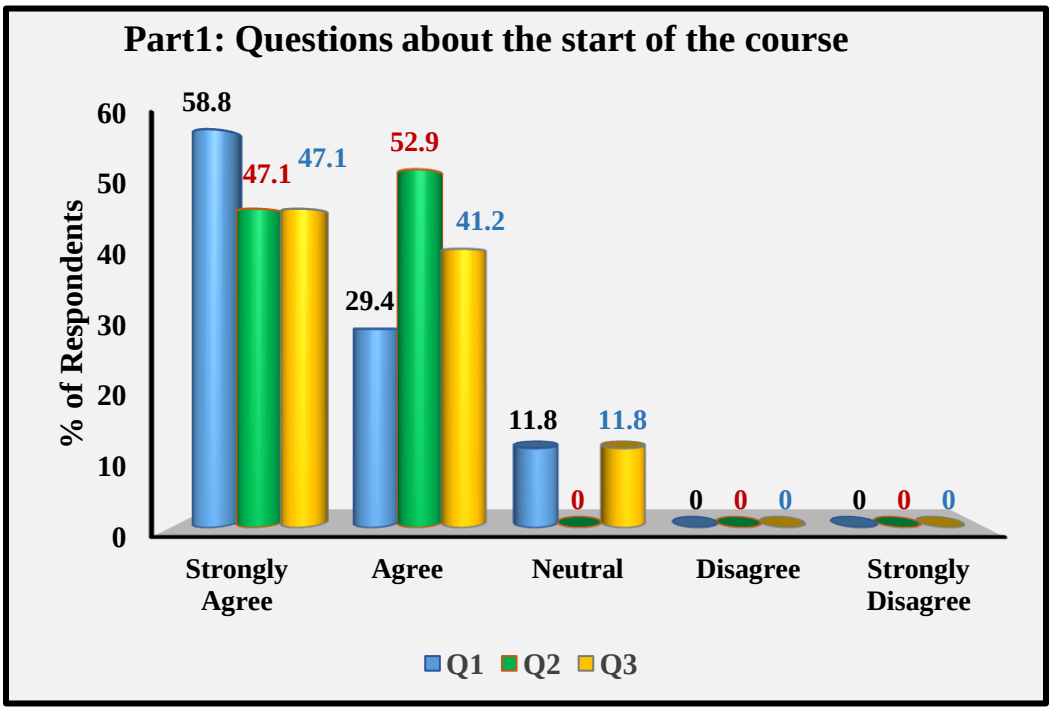


Fig.2: The percent of respondents for each question in Part 1: Questions about the Start of the Course.

The course surveyed with a total of 17 students (85 % of students started the course this semester). The results of part 1 (Questions about the Start of the Course)) showed that 100% students responded to the questions of this part. Overall, 90 % of responses were "Agree" and favorable toward satisfaction, 10% of responses were "Neutral", 0% of responses were "Disagree", and 0% had no responses.

Questions 2 yielded the largest number of "Agree" responses with 100 % of respondents agreeing about the clarity of and assessment tasks of the course and tasks required for success.

Part 2:

In the the course evaluation survey , part 2 contains 16 questions about "What Happened during the Course". The results are stated below:

Part 2: Questions about what happened during the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q4	% of respondents	52.9	29.4	17.6	0	0	100
	Number of respondents	9	5	3	0	0	17
Q5	% of respondents	64.7	35.3	0	0	0	100
	Number of respondents	11	6	0	0	0	17
Q6	% of respondents	76.5	11.8	11.8	0	0	100
	Number of respondents	13	2	2	0	0	17
Q7	% of respondents	64.7	23.5	5.9	0	0	100
	Number of respondents	11	4	1	0	0	17
Q8	% of respondents	58.8	23.5	17.6	5.9	0	100
	Number of respondents	9	4	3	1	0	17
Q9	% of respondents	70.6	11.8	5.8	11.8	0	100
	Number of	12	2	1	2	0	17

	respondents						
Q10	**% of respondents**	58.8	11.8	29.4	0	0	**100**
	Number of respondents	10	2	5	0	0	**17**
Q11	**% of respondents**	64.7	11.8	17.6	5.9	0	**100**
	Number of respondents	11	2	3	1	0	**17**
Q!2	**% of respondents**	58.8	29.4	11.8	0	0	**100**
	Number of respondents	10	5	2	0	0	**8**
Q13	**% of respondents**	35.3	29.4	35.3	0	0	**100**
	Number of respondents	6	5	6	0	0	**17**
Q14	**% of respondents**	35.3	41.2	11.8	11.8	0	**100**
	Number of respondents	6	7	2	2	0	**17**
Q15	**% of respondents**	35.3	29.4	17.6	17.6	0	**100**
	Number of respondents	6	5	3	3	0	**17**
Q16	**% of respondents**	52.9	23.5	11.8	11.8	0	**100**
	Number of respondents	9	4	2	2	0	**17**
Q17	**% of respondents**	70.6	11.8	11.8	5.8	0	**100**
	Number of respondents	12	2	2	1		**17**
Q18	**% of respondents**	70.6	23.5	0	0	5.9	**100**
	Number of respondents	12	4	0	0	1	**17**
Q19	**% of respondents**	52.9	35.3	11.8	0	0	**100**
	Number of respondents	9	6	2	0	0	**17**

The course surveyed a total of 17 students (85 % of students started the course this semester). The results of part 2 (Questions about What Happened during the Course) showed that 100 % students responded to the questions of this part. Overall, 82 % of

responses were “Agree” and favorable toward satisfaction, 13.6 % of responses were “Neutral”, 4.4 % of responses were “Disagree”, and 0% had no responses.

Question 5 yielded the largest number of “Agree” responses with 100 % of respondents agreeing that they were satisfied with the instructor was fully committed to the delivery of the course.

Questions 6,7,12,17,18 and 19 yielded the largest number of “Agree” responses with 88 % of respondents agreeing that they were satisfied with the instructor’s knowledge, caring of the students’ progress and his availability during office hours, in addition to the availability of the use of technology which improved their skills and the assessment methods and the grades’ distribution. Moreover, the clarity of the link between the course and other courses of the program.

The the largest number of “Disagree” responses corresponds to Question 15. Almost 17.6 % of respondents disagreed with the statements indicating that adequate activities they did to improve their skills.

Part 3:

In the course evaluation survey , part 3 contains 5 questions about “Evaluation of the Course”. The results are stated below:

Part 3: Evaluation of the course:							
		Strongly Agree	**Agree**	**Neutral**	**Disagree**	**Strongly Disagree**	**Total**
Q20	**% of respondents**	70.6	29.4	0	0	0	**100**
	Number of respondents	12	5	0	0	0	**8**
Q21	**% of respondents**	47.1	29.4	17.6	0	5.9	**100**
	Number of respondents	8	5	3	0	1	**8**
Q22	**% of respondents**	52.9	11.8	17.6	17.6	0	**100**
	Number of respondents	9	2	3	3	0	**8**
Q23	**% of respondents**	41.2	23.5	23.5	11.8	0	**100**
	Number of respondents	7	4	4	2	0	**8**

Q24	**% of respondents**	52.9	35.3	11.8	0	0	**100**
	Number of respondents	9	6	2	0	0	**8**

The course surveyed a total of 17 students (85 % of students started the course this semester). The results of part 3 (Evaluation of the Course) showed that 100 % students responded to the questions of this part. Overall, 78 % of responses were “Agree” and favorable toward satisfaction, 14 % of responses were “Neutral”, 6 % of responses were “Disagree”, and 0% had no responses.

Questions 24 yielded the largest number of “Agree” responses with 88 % of respondents were satisfied with the quality of the course.

The largest number of “Disagree” responses corresponds to Question 22. Almost 17.6 % of respondents disagreed with the statements indicating that adequate activities they did to improve their skills as a member of a team.

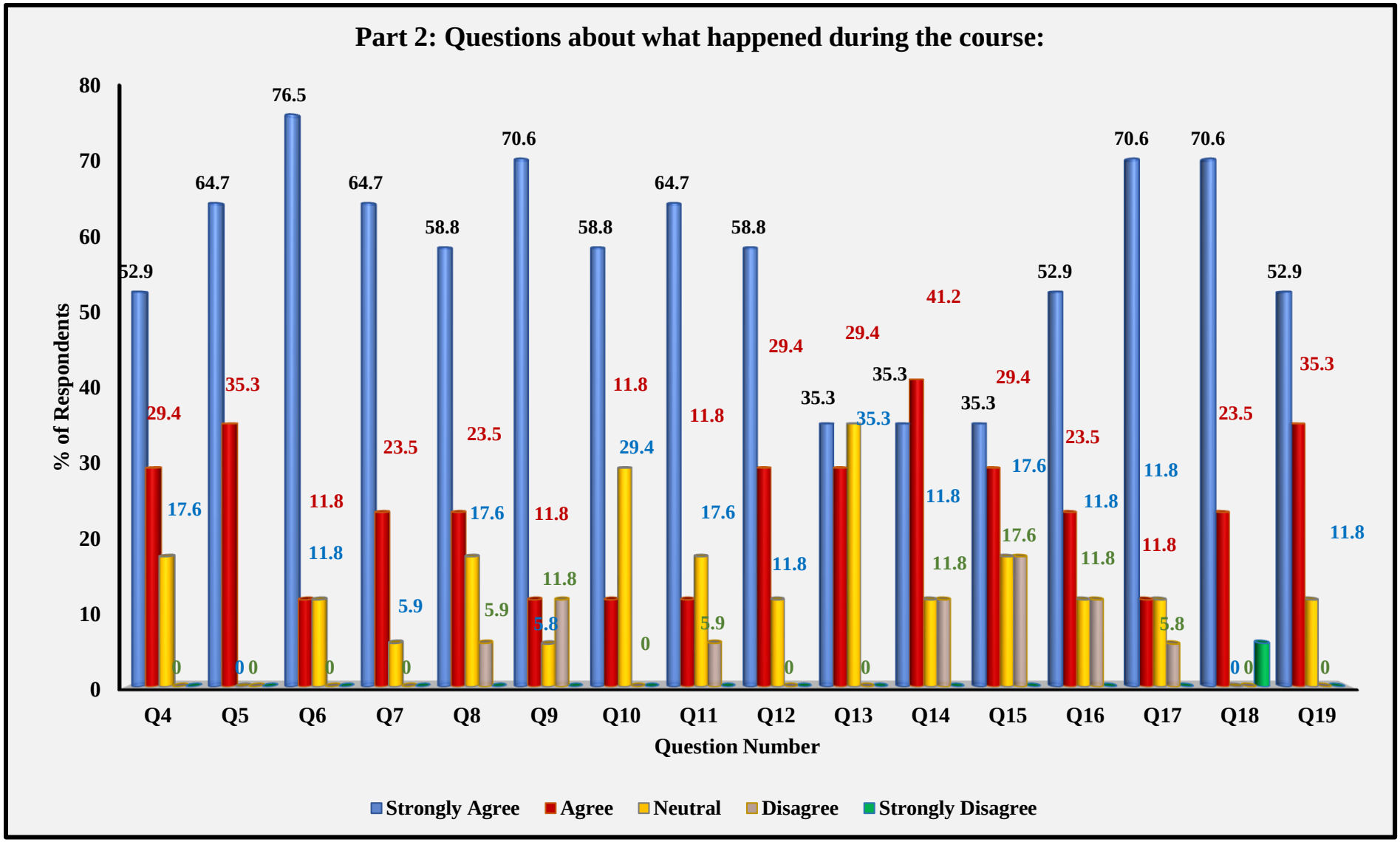


Fig.3: The percent of respondents for each question in Part 2: Questions about What Happened during the Course.

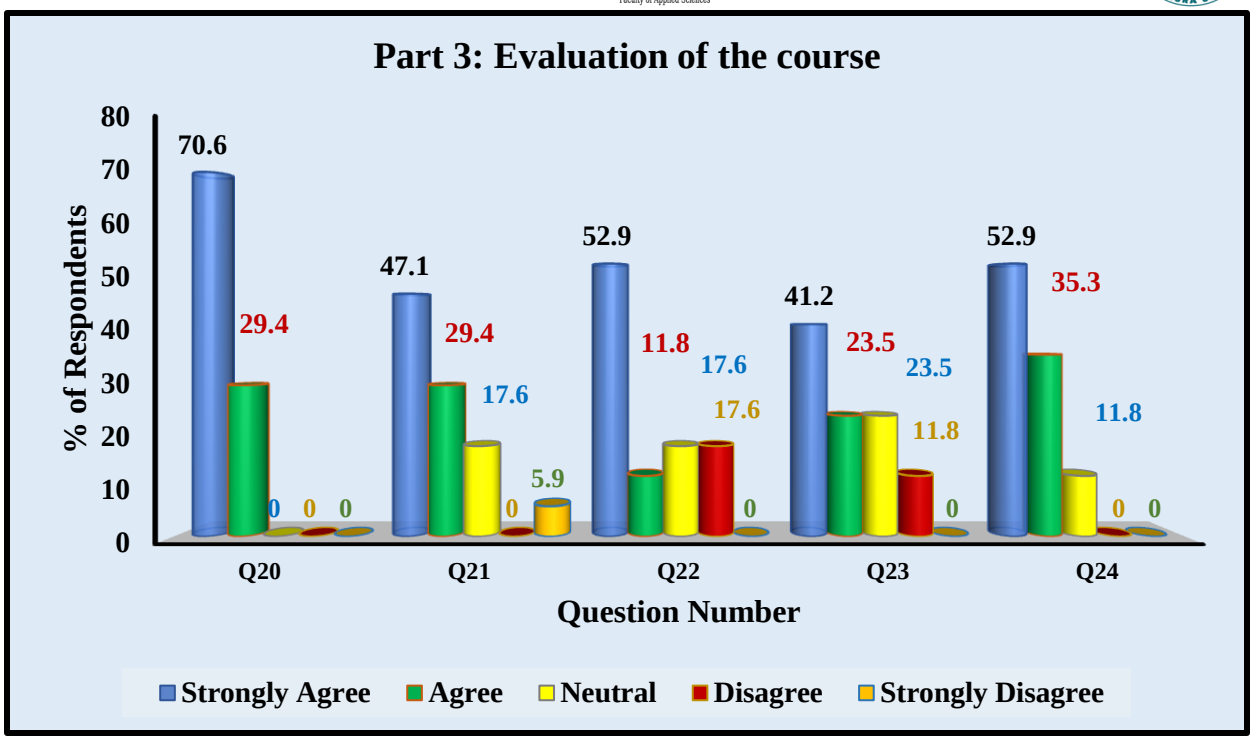


Fig.4: The percent of respondents for each question in Part 3: Evaluation of the Course.

Part 4:

Part 4 contains 3 open ended questions asking the students about their likeness and dislikes for the course, in addition to their suggestion for course improvement. 100 % of students responded to these questions. Most of the responses mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being “nice,” “caring about the subject,” and “patient,” were frequent. Many answers also focus on the course itself, whether it was “well organized and structured,” considered “relevant” to the academic program, and “interesting” that improved their skills effectively.

Respondents also commented on their needs for a practical part accompanied by the course. Moreover, some of them suggested that the credit hours of the course were not enough for them and expressed about their need to increase the theoretical part.

Course Title: Health Physics
Course Code: 403383
Instructor: Prof. Dr./ Samir Naetto

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. Additionally, writing responses was reviewed and summarized.

However, the students taken this survey were 17 in total, only 13 of them responded to the survey. About 23.1 % of students were at level 7, while the rest of the students taken the survey were from level 4 (61.5 %) and level 6 (15.4 %). The percent of students participated in this survey for each level are represented in the graph below:

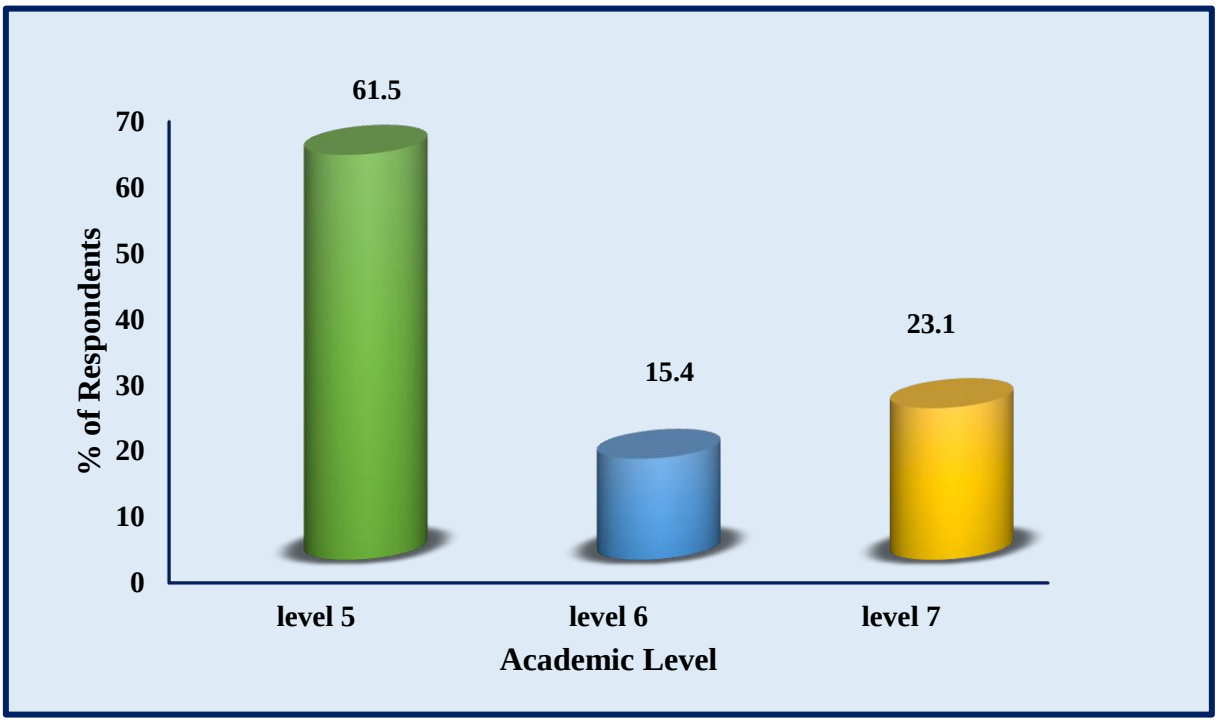


Fig.5: The percent of students participated in Health Physics The course evaluation survey for each academic level.

Part 1:

In the the course evaluation survey , part 1 contains 3 questions about “the start of the course”. The results are stated below:

Part 1: Questions about the start of the course:						
Q. No.	Question 1		Question 2		Question 3	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	5	38.4	4	30.8	6	46.2
Agree	5	38.5	5	38.5	3	23.1
neutral	2	15.4	2	15.4	2	15.4
Disagree	1	7.7	1	7.6	2	15.4
Strongly Disagree	0	0	1	7.7	0	0
Total	**13**	**100**	**13**	**100**	**13**	**100**

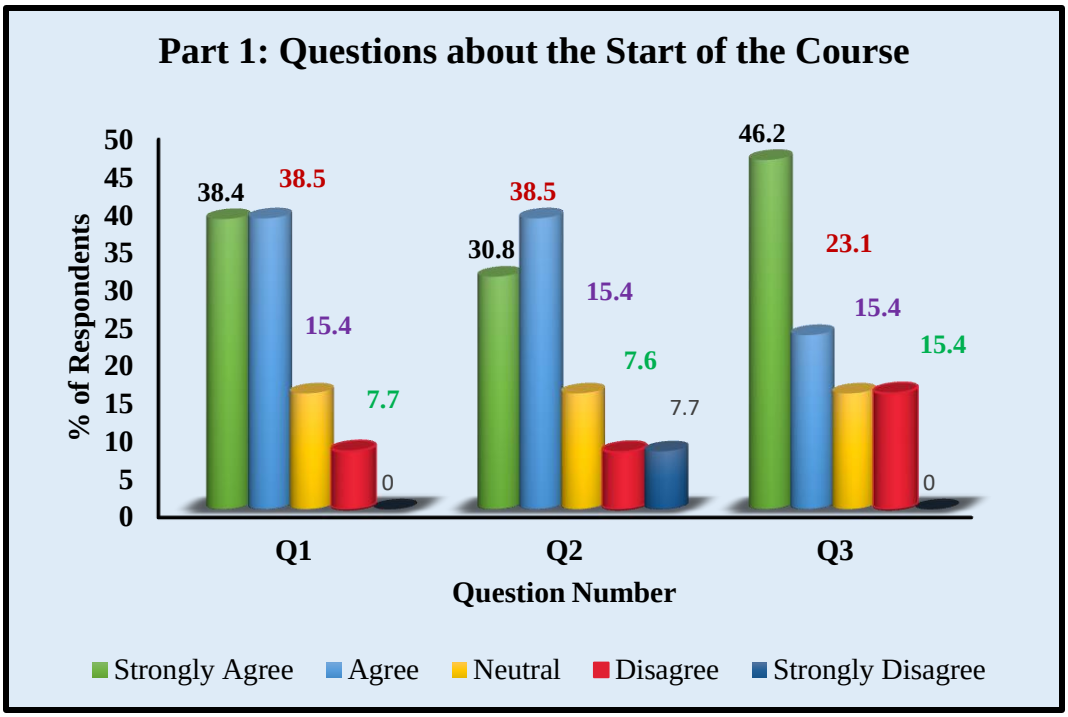


Fig.6: The percent of respondents for each question in Part 1: Questions about the Start of the Course.

The course surveyed with a total of 13 students (76.47 % of students started the course this semester). The results of part 1 (Questions about the Start of the Course)) showed that 100% students responded to the questions of this part. Overall, 65 % of responses were “Agree” and favorable toward satisfaction, 15.4 % of responses were “Neutral”, 13 % of responses were “Disagree”, and 0% had no responses.

Questions 1, and 2 yielded the largest number of “Agree” responses with 65 % of respondents agreeing about the clarity of both course outline and assessment tasks of the course.

Part 2:

In the course evaluation survey , part 2 contains 16 questions about “What Happened during the Course”. The results are stated below:

Part 2: Questions about what happened during the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q4	% of respondents	38.5	38.5	23.1	0	0	100
	Number of respondents	5	5	3	0	0	13
Q5	% of respondents	38.5	38.5	23.1	0	0	100
	Number of respondents	5	5	3	0	0	13
Q6	% of respondents	53.8	23.1	15.4	7.7	0	100
	Number of respondents	7	3	2	1		13
Q7	% of respondents	69.2	23.1	7.7	0	0	100
	Number of respondents	9	3	1	0	0	13
Q8	% of respondents	61.5	15.4	23.1	0	0	100
	Number of respondents	8	2	3	0	0	13
Q9	% of respondents	46.2	15.4	23.1	7.6	7.7	100
	Number of	6	2	3	1	1	13

	respondents						
Q10	**% of respondents**	38.5	30.8	15.4	7.6	7.7	**100**
	Number of respondents	5	4	2	1	1	**13**
Q11	**% of respondents**	30.8	15.6	30.5	0	23.1	**100**
	Number of respondents	4	2	4	0	3	**13**
Q12	**% of respondents**	30.8	15.4	15.4	23.1	15.4	**100**
	Number of respondents	4	2	2	3	2	**13**
Q13	**% of respondents**	30.8	38.5	23.1	7.7	0	**100**
	Number of respondents	4	5	3	1		**13**
Q14	**% of respondents**	30.8	38.5	23.1	7.7	0	**100**
	Number of respondents	4	5	3	1	0	**13**
Q15	**% of respondents**	30.8	38.5	15.4	7.6	7.7	**100**
	Number of respondents	4	5	2	1	1	**13**
Q16	**% of respondents**	30.8	40.2	10.6	10.7	7.7	**100**
	Number of respondents	4	5	1	1	1	**13**
Q17	**% of respondents**	30.8	38.5	23.1	7.7	0	**100**
	Number of respondents	4	5	3	1	0	**13**
Q18	**% of respondents**	69.2	0	23.1	7.7	0	**100**
	Number of respondents	9	0	3	1	0	**13**
Q19	**% of respondents**	46.2	30.8	7.6	15.4	0	**100**
	Number of respondents	6	4	1	2	0	**13**

The course surveyed a total of 13 students (76.47 % of students started the course this semester). The results of part 2 (Questions about What Happened during the Course) showed that 100 % students responded to the questions of this part. Overall, 68 % of

responses were “Agree” and favorable toward satisfaction, 16 % of responses were “Neutral”, 15 % of responses were “Disagree”, and 0% had no responses.

Question 7 yielded the largest number of “Agree” responses with 92 % of respondents agreeing that they were satisfied with that the instructor was helpful and available during the office hours.

Questions 5,6, and 8 yielded the largest number of “Agree” responses with 76% of respondents agreeing that they were satisfied that the instructor attitude was helpful for them.

The largest number of “Disagree” responses corresponds to Question 12. Almost 30 % of respondents disagreed with the statements indicating that adequate availability resources they needed for execution of course’s activities.

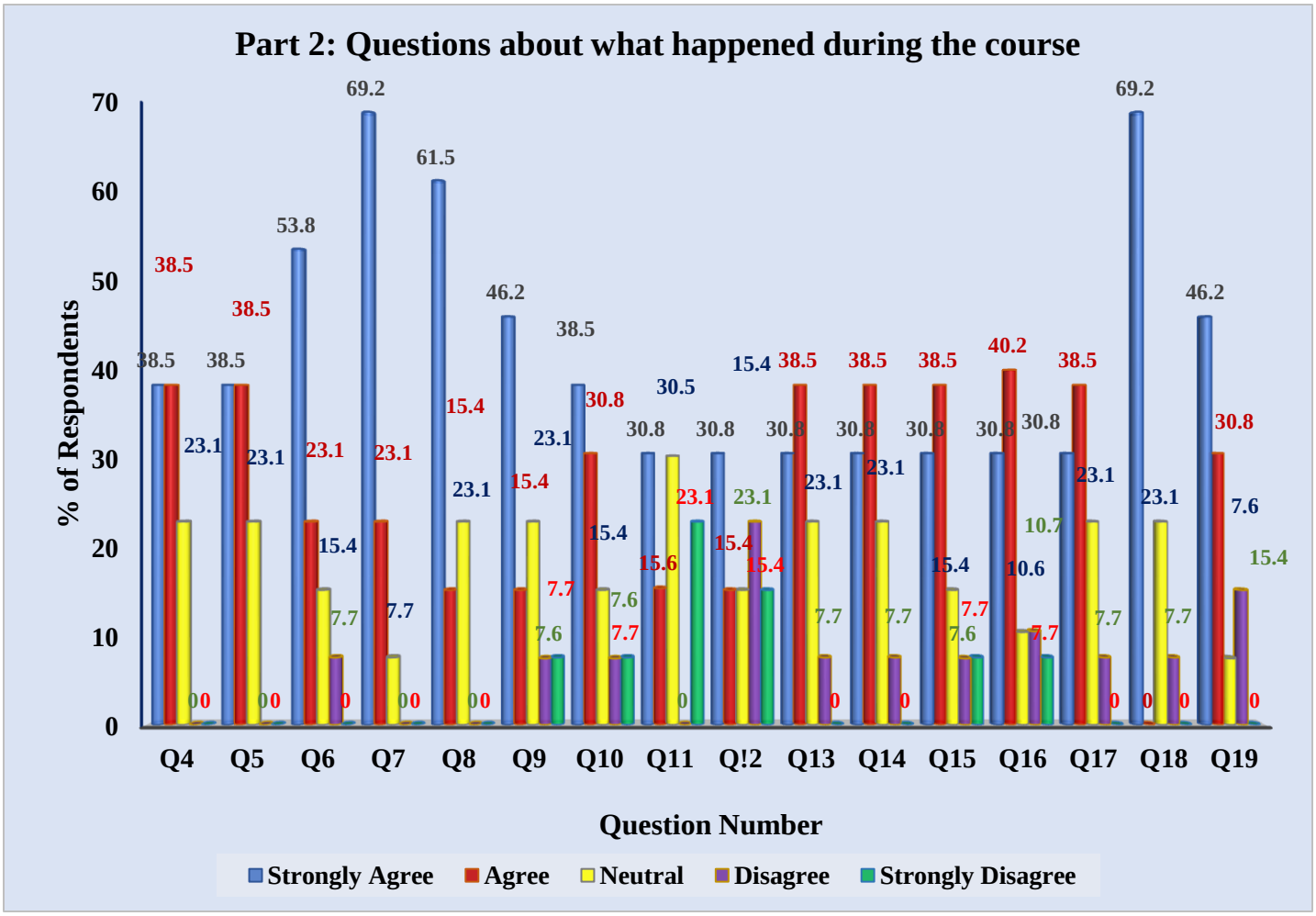


Fig.7: The percent of respondents for each question in Part 2: Questions about What Happened during the Course.

Part 3:

In the course evaluation survey , part 3 contains 5 questions about “Evaluation of the Course”. The results are stated below:

Part 3: Evaluation of the course:

		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q20	% of respondents	61.5	15.4	23.1	0	0	100
	Number of respondents	8	2	3	0	0	13
Q21	% of respondents	61.5	15.4	23.1	0	0	100
	Number of respondents	8	2	3	0	0	13
Q22	% of respondents	23.1	46.2	23.1	0	7.7	100
	Number of respondents	3	6	3	0	1	13
Q23	% of respondents	23.1	38.5	30.8	0	7.7	100
	Number of respondents	3	5	4	0	1	13
Q24	% of respondents	30.8	23.1	38.5	0	7.7	100
	Number of respondents	4	3	5	0	1	13

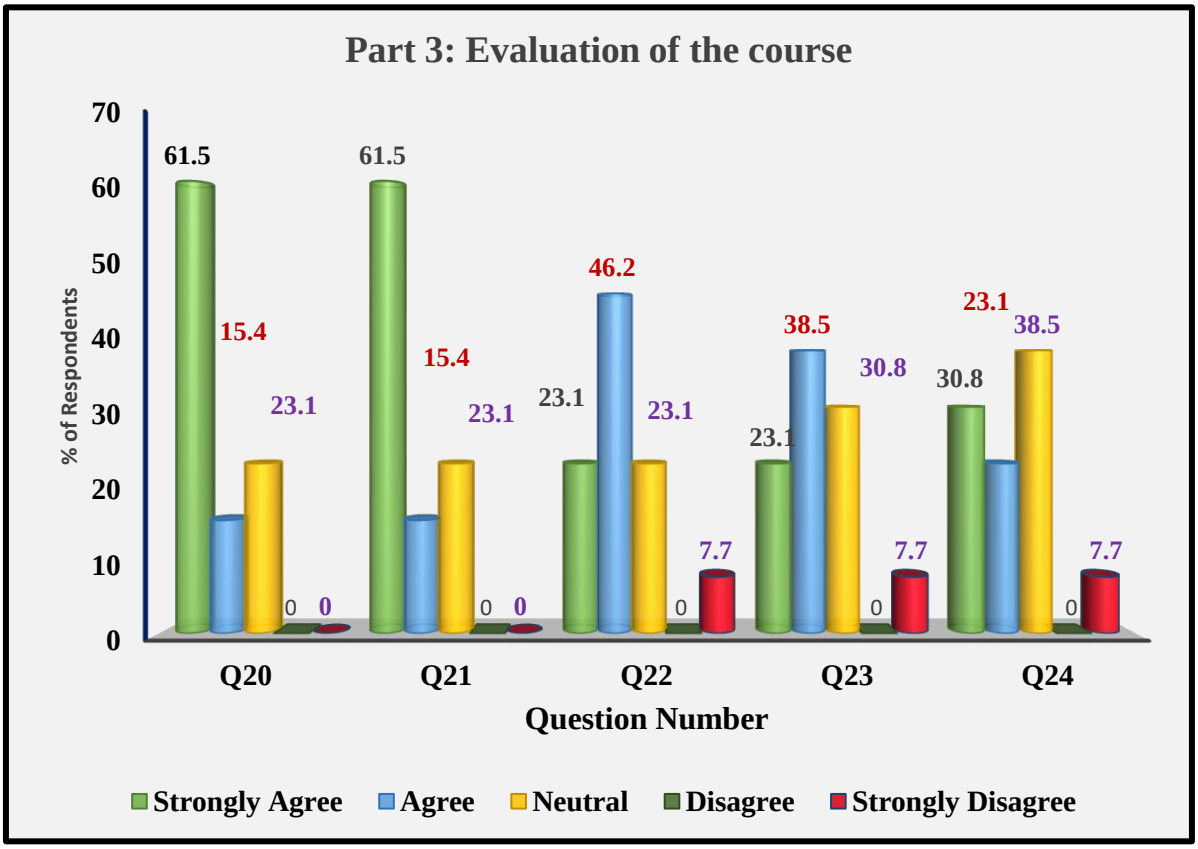


Fig.8: The percent of respondents for each question in Part 3: Evaluation of the Course.

The course surveyed a total of 13 students (76.47 % of students started the course this semester). The results of part 3 (Evaluation of the Course) showed that 100 % students responded to the questions of this part. Overall, 70% of responses were “Agree” and favorable toward satisfaction, 23 % of responses were “Neutral”, 7 % of responses were “Disagree”, and 0% had no responses.

Questions 21 yielded the largest number of “Agree” responses with 75 % of respondents agreeing that improvement of their communication, solving problems, and working in group effectively rather than memorizing knowledge.

About 7 % “Disagree” responses recorded from the respondents for Q22, Q23, and Q24, since the students disagreed with the activities improving their communication skills and their experts in field.

Part 4:

Part 4 contains 3 open ended questions asking the students about their likeness and dislikes for the course, in addition to their suggestion for course improvement. 100 % of students responded to these questions. Most of the responses mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being “nice,” “caring about the subject,” and “patient,” were frequent. Many answers also focus on the course itself, whether it was “well organized and structured,” considered “relevant” to the academic program, and “interesting” that improved their skills effectively.

Students also commented on their needs for more workshops and training in the field. Moreover, the practical part of the course was not enough for them and expressed about their need for more practicing in the field.

Course Title: Physics of Radiation Effects
Course Code: 403384
Instructor: Dr./ Taha Alfawal

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. additionally, writing responses were reviewed and summarized.

However, the students taken this survey were 12 in total, only 11 of them responded to the survey. All students were in level 5.

Part 1:

In the course evaluation survey , part 1 contains 3 questions about “the start of the course”. The results are stated below:

Part 1: Questions about the start of the course:						
Q. No.	Question 1		Question 2		Question 3	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	8	72.7	7	63.6	7	63.6
Agree	3	27.3	2	18.2	4	36.4
neutral	0	0	2	18.2	0	0
Disagree	0	0	0	0	0	0
Strongly Disagree	0	0	0	0	0	0
Total	**11**	**100**	**11**	**100**	**11**	**100**

The course surveyed with a total of 11 students (91.7 % of students started the course this semester). The results of part 1 (Questions about the Start of the Course)) showed that 100% students responded to the questions of this part. Overall, 90 % of responses were “Agree” and favorable toward satisfaction, 10 % of responses were “Neutral”, 0 % of responses were “Disagree”, and 0% had no responses.

Questions 1, and 3 yielded the largest number of “Agree” responses with 100 % of respondents agreeing about the clarity of course outline and availability of helping resources of the course.

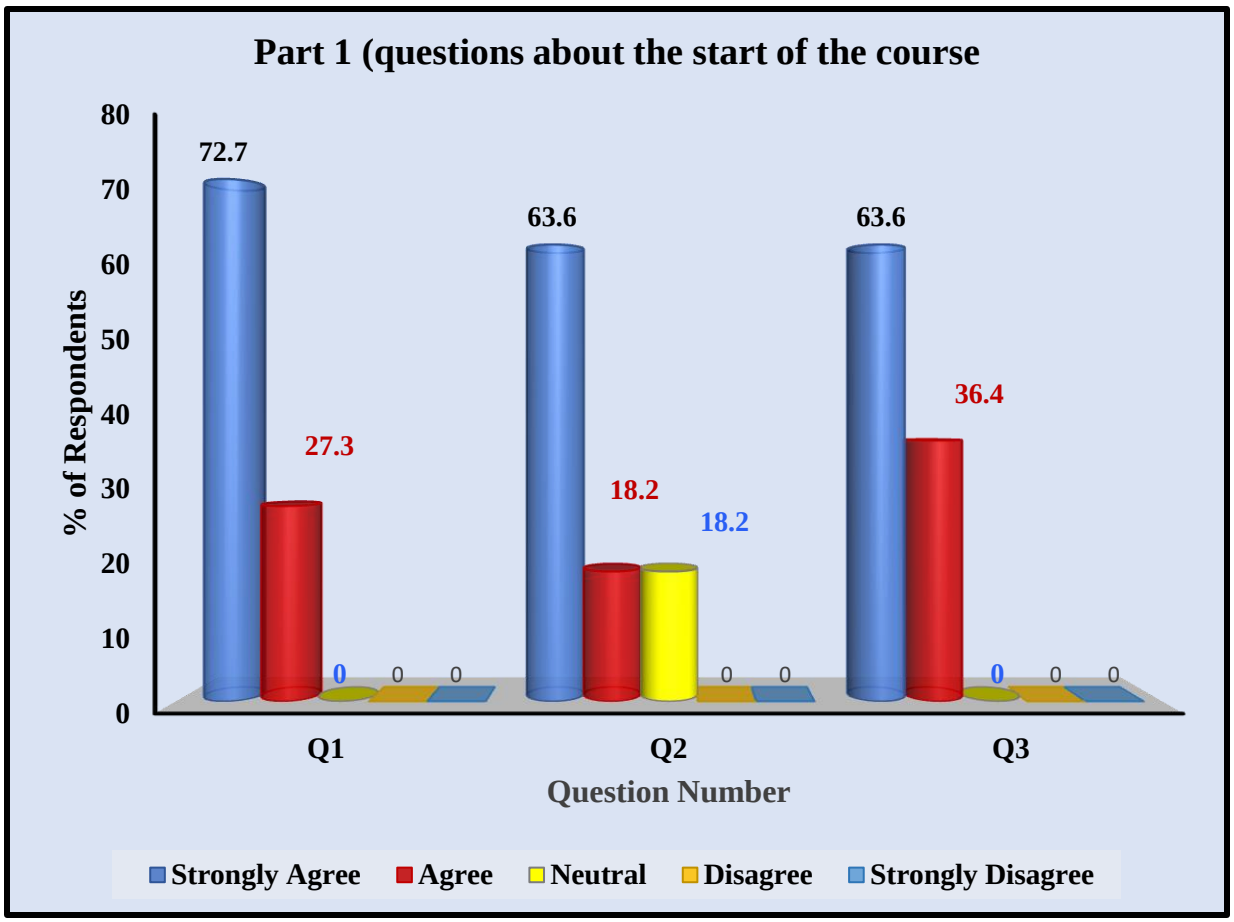


Fig.9: The percent of respondents for each question in Part 1: Questions about the Start of the Course.

Part 2:

In the the course evaluation survey , part 2 contains 16 questions about “What Happened during the Course”. The results are stated below:

Part 2: Questions about what happened during the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q4	% of respondents	72.7	18.2	9.1	0	0	100
	Number of respondents	8	2	1	0	0	11
Q5	% of respondents	54.5	36.4	9.1	0	0	100
	Number of	6	4	1	0	0	11

	respondents						
Q6	**% of respondents**	90.9	9.1	0	0	0	**100**
	Number of respondents	10	1	0	0	0	**11**
Q7	**% of respondents**	54.5	45.5	0	0	0	**100**
	Number of respondents	6	5	0	0	0	**11**
Q8	**% of respondents**	45.5	54.5	0	0	0	**100**
	Number of respondents	5	6	0	0	0	**11**
Q9	**% of respondents**	27.3	45.5	27.3	0	0	**100**
	Number of respondents	3	5	3	0	0	**11**
Q10	**% of respondents**	63.6	36.4	0	0	0	**100**
	Number of respondents	7	4	0	0	0	**11**
Q11	**% of respondents**	54.5	27.3	18.2	0	0	**100**
	Number of respondents	6	3	2	0	0	**11**
Q12	**% of respondents**	54.5	36.4	0	9.1	0	**100**
	Number of respondents	6	4		1		**11**
Q13	**% of respondents**	27.3	36.4	36.4	0	0	**100**
	Number of respondents	3	4	4	0	0	**11**
Q14	**% of respondents**	36.4	36.4	18.2	0	9.1	**100**
	Number of respondents	4	4	2	0	1	**11**
Q15	**% of respondents**	36.4	45.5	9.1	9.1	0	**100**
	Number of respondents	4	5	1	1	0	**11**
Q16	**% of respondents**	54.5	27.3	0	9.1	9.1	**100**
	Number of respondents	6	3	0	1	1	**11**
Q17	**% of respondents**	54.5	27.3	18.2	0	0	**100**
	Number of	6	3	2	0	0	**11**

	respondents						
Q18	**% of respondents**	36.4	54.5	0	9.1	0	**100**
	Number of respondents	4	6	0	1	0	**11**
Q19	**% of respondents**	36.4	45.5	18.2	0	0	**100**
	Number of respondents	4	5	2	0	0	**11**

The course surveyed a total of 11 students (91.7 % of students started the course this semester). The results of part 2 (Questions about What Happened during the Course) showed that 100 % students responded to the questions of this part. Overall, 80 % of responses were "Agree" and favorable toward satisfaction, 12 % of responses were "Neutral", 8 % of responses were "Disagree", and 0% had no responses.

Questions 6, 7, 8, and 10 yielded the largest number of "Agree" responses with 100 % of respondents agreeing that they were satisfied the expert of the instructor and his availability during office hours, in addition to that the course materials were updating.

The largest number of "Disagree" responses corresponds to Question 16. Almost 18.2 % of respondents disagreed with the statements indicating that the amount of work was reasonable to the course credit hours.

Part 3:

In the course evaluation survey, part 3 contains 5 questions about "Evaluation of the Course". The results are stated below:

Part 3: Evaluation of the course:							
		Strongly Agree	**Agree**	**Neutral**	**Disagree**	**Strongly Disagree**	**Total**
Q20	**% of respondents**	63.6	27.3	9.1	0	0	**100**
	Number of respondents	7	3	1	0	0	**11**
Q21	**% of respondents**	27.3	54.5	18.2	0	0	**100**
	Number of respondents	3	6	2	0	0	**11**
Q22	**% of respondents**	36.4	18.2	36.4	9.1	0	**100**

	Number of respondents	4	2	4	1	0	**11**
Q23	**% of respondents**	36.4	27.3	36.4	0	0	**100**
	Number of respondents	4	3	4	0	0	**11**
Q24	**% of respondents**	36.4	54.5	9.1	0	0	**100**
	Number of respondents	4	6	1	0	0	**11**

The course surveyed a total of 11 students (91.7 % of students started the course this semester). The results of part 3 (Evaluation of the Course) showed that 100 % students responded to the questions of this part. Overall, 78 % of responses were “Agree” and favorable toward satisfaction, 18 % of responses were “Neutral”, 4 % of responses were “Disagree”, and 0% had no responses.

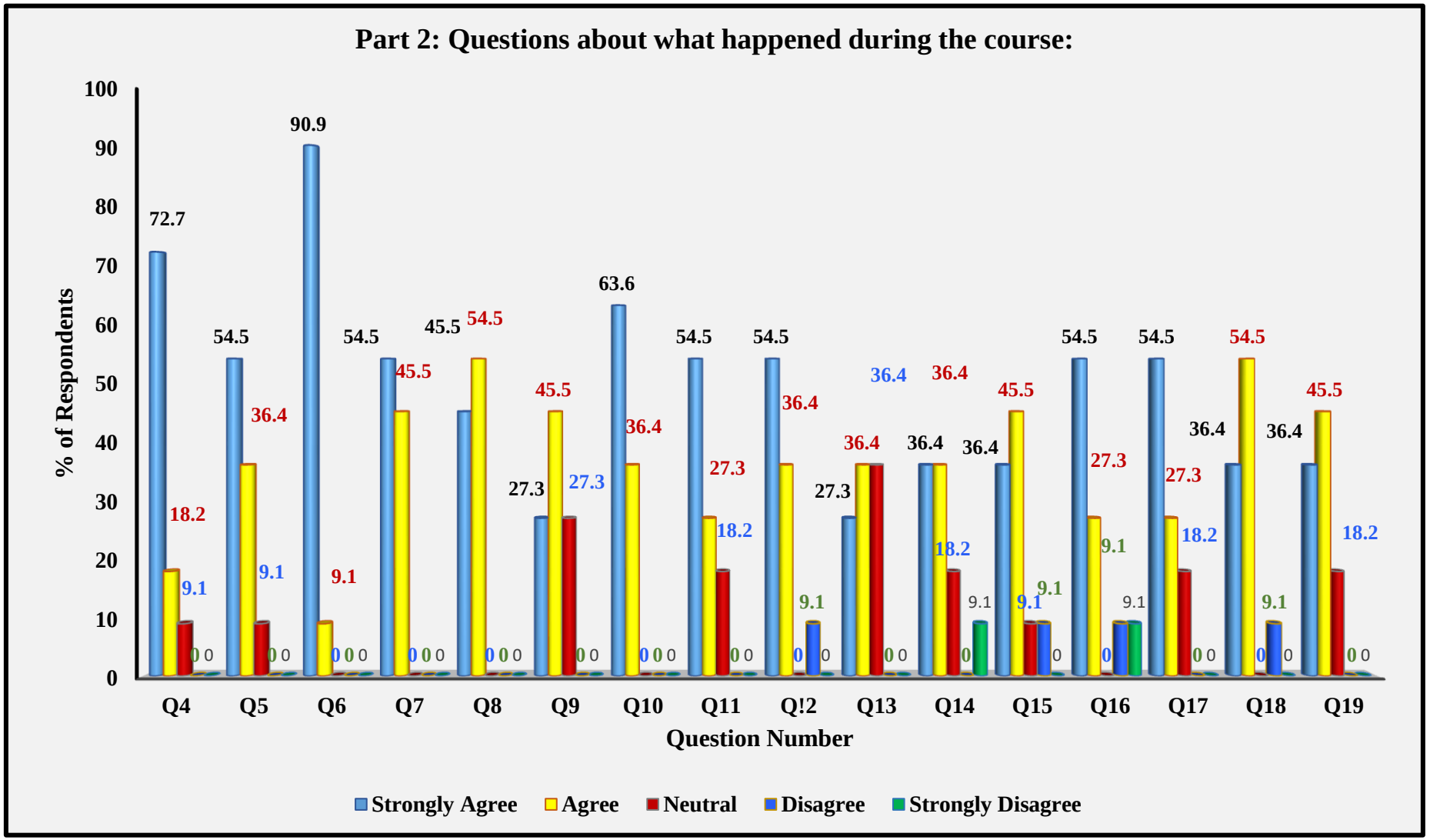


Fig.10: The percent of respondents for each question in Part 2: Questions about What Happened during the Course.

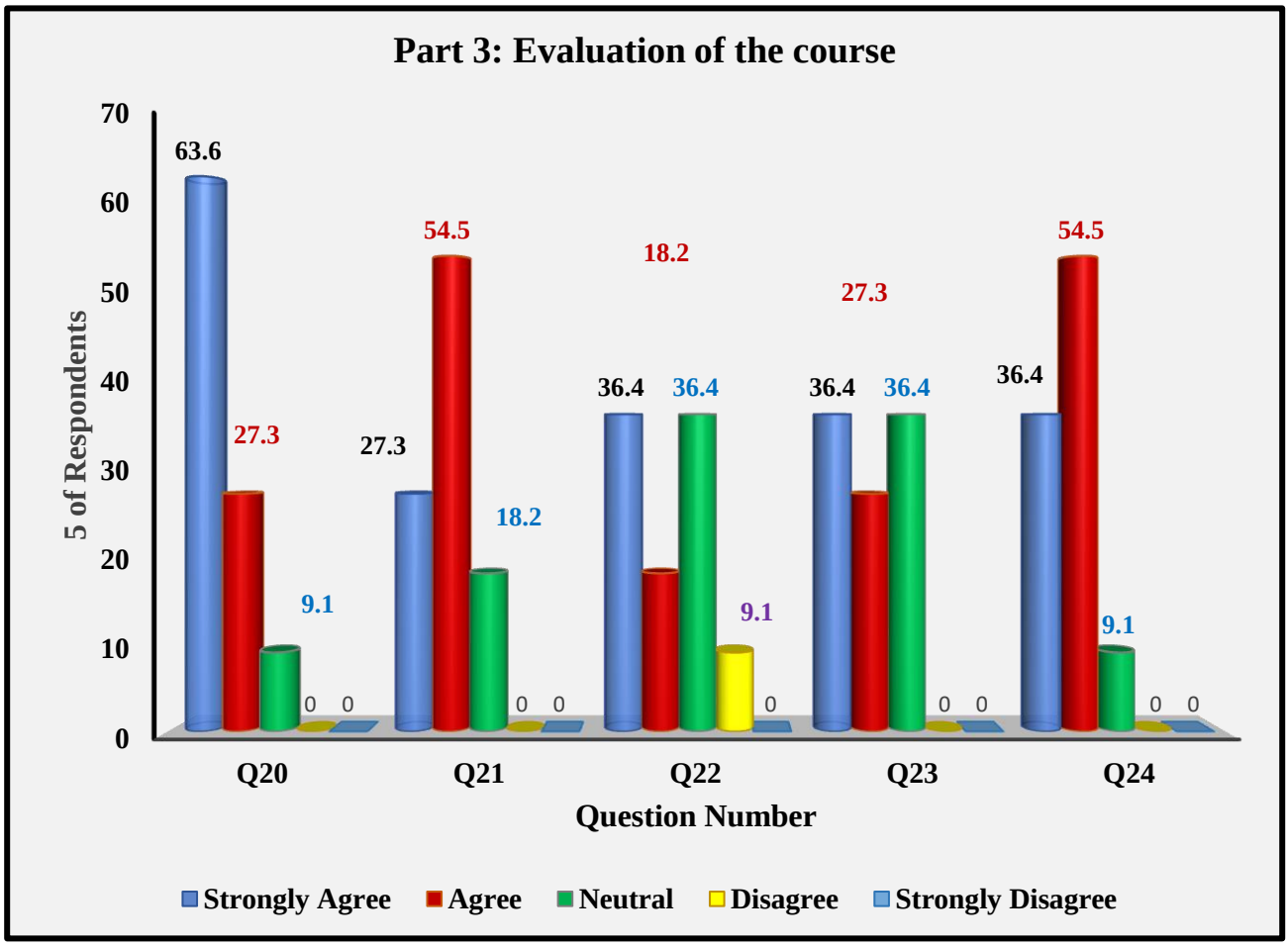


Fig.11: The percent of respondents for each question in Part 3: Evaluation of the Course.

Questions 20, and 24 yielded the largest number of "Agree" responses with 90 % of respondents agreeing that improvement of their communication, solving problems, and working in groups effectively rather than memorizing knowledge.

About 9.1 % "Disagree" responses recorded from the respondents for Q22, since the students disagreed with the amount of activities required to improve their communication skills and their experts in the field.

Part 4:

Part 4 contains 3 open ended questions asking the students about their likeness and dislikes for the course, in addition to their suggestion for course improvement. 100 % of students responded to these questions. Most of the responses mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being “nice,” “caring about the subject,” and “patient,” were frequent. Many answers also focus on the course itself, whether it was “well organized and structured,” considered “relevant” to the academic program, and “interesting” that improved their skills effectively.

Students also commented on their needs for more workshops, practical activities, and training in the field. Moreover, the activities of the course were not enough for them and expressed about their need for more practicing in field and solving problems.

Course Title: Medical Radiation Physics 1
Course Code: 403385
Instructor: Dr./ Taha Alfawal

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. additionally, writing responses were reviewed and summarized.

100% of the students taken this survey (6 students) responded to it. About 83.3 % of students are in level 7, while the rest of students taken the survey are from level 5 (16.7 %). The percent of students participated in this survey for each level is represented in the graph below:

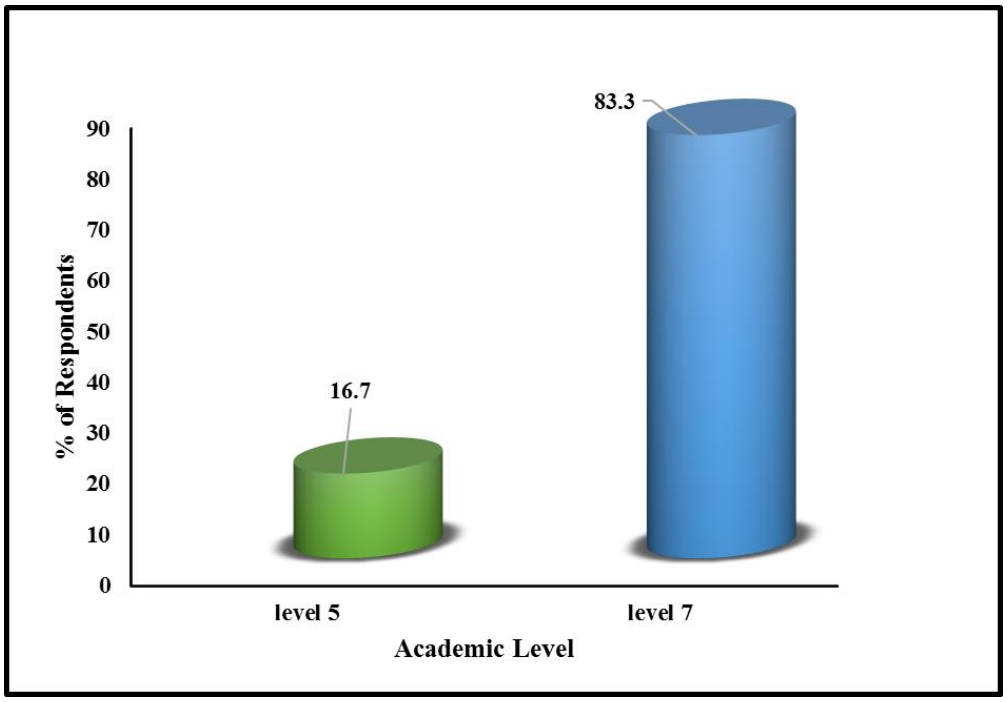


Fig.12: The percent of students participated in Health Physics The course evaluation survey for each academic level.

Part 1:

In the course evaluation survey , part 1 contains 3 questions about “the start of the course”. The results are stated below:

Part 1: Questions about the start of the course:						
Q. No.	Question 1		Question 2		Question 3	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	4	66.7	5	83.3	5	83.3
Agree	0	0	0	0	0	0
neutral	2	33.3	1	16.7	1	16.7
Disagree	0	0	0	0	0	0
Strongly Disagree	0	0	0	0	0	0
Total	**6**	**100**	**6**	**100**	**6**	**100**

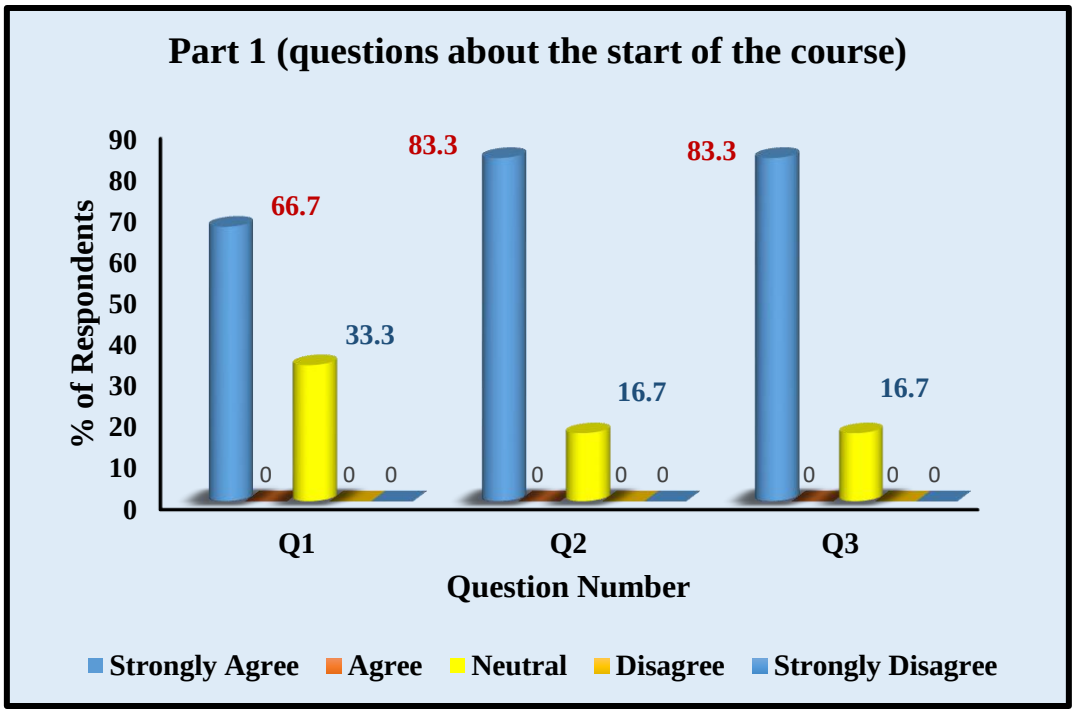


Fig.13: The percent of respondents for each question in Part 1: Questions about the Start of the Course.

The course surveyed by a total of 6 students (100 %). The results of part 1 (Questions about the Start of the Course)) showed that 100% students responded to the questions of this part. Overall, 78 % of responses were “Agree” and favorable toward satisfaction, 22 % of responses were “Neutral”, 0 % of responses were “Disagree”, and 0% had no responses.

Questions 2, and 3 yielded the largest number of “Agree” responses with 83.3 % of respondents agreeing about the clarity of both assessment tasks and the helpful resources of the course.

Part 2:

In the course evaluation survey , part 2 contains 16 questions about “What Happened during the Course”. The results are stated below:

Part 2: Questions about what happened during the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q4	% of respondents	66.7	0	33.3	0	0	100
	Number of respondents	4	0	2	0	0	6
Q5	% of respondents	66.7	16.7	16.7	0	0	100
	Number of respondents	4	1	1	0	0	6
Q6	% of respondents	83.3	16.7	0	0	0	100
	Number of respondents	5	1	0	0	0	6
Q7	% of respondents	66.7	16.7	0	16.7	0	100
	Number of respondents	4	1	0	1	0	6
Q8	% of respondents	66.7	0	33.3	0	0	100
	Number of respondents	4	0	2	0	0	6
Q9	% of respondents	50	33.3	16.7	0	0	100
	Number of respondents	3	2	1	0	0	6

Q10	**% of respondents**	50	33.3	16.7	0	0	**100**
	Number of respondents	3	2	1	0	0	**6**
Q11	**% of respondents**	66.7	0	16.7	0	16.7	**100**
	Number of respondents	4	0	1	0	1	**6**
Q12	**% of respondents**	50	16.7	16.7	16.7	0	**100**
	Number of respondents	3	1	1	1	0	**6**
Q13	**% of respondents**	83.3	0	16.7	0	0	**100**
	Number of respondents	5	0	1	0	0	**6**
Q14	**% of respondents**	83.3	0	16.7	0	0	**100**
	Number of respondents	5	0	1	0	0	**6**
Q15	**% of respondents**	66.7	16.7	16.7	0	0	**100**
	Number of respondents	4	1	1	0	0	**6**
Q16	**% of respondents**	66.7	16.7	16.7	0	0	**100**
	Number of respondents	4	1	1	0	0	**6**
Q17	**% of respondents**	83.3	0	16.7	0	0	**100**
	Number of respondents	5	0	1	0	0	**6**
Q18	**% of respondents**	66.7	0	16.7	0	16.7	**100**
	Number of respondents	4	0	1	0	1	**6**
Q19	**% of respondents**	66.7	33.3	0	0	0	**100**
	Number of respondents	4	2	0	0	0	**6**

The course surveyed a total of 6 students (100 %). The results of part 2 (Questions about What Happened during the Course) showed that 100 % students responded to the questions of this part. Overall, 68 % of responses were “Agree” and favorable toward satisfaction, 16 % of responses were “Neutral”, 10 % of responses were “Disagree”, and 0% had no responses.

Question 19 yielded the largest number of “Agree” responses with 100 % of respondents agreeing that they were satisfied that the course is linked with another course of the program in addition to its relation with the practical field.

Questions 6, 13, 14, and 17 yielded the largest number of “Agree” responses with 83.3 % of respondents agreeing that they were satisfied the expertise of the instructor, in addition to the development of their skills and the reasonability of the course credit hours.

The largest number of “Disagree” responses corresponds to Questions 11, 12, and 18. Almost 16.7 % of respondents disagreed with the statements indicating that adequate availability and resources they needed for execution of course’s activities and the grades for assessment of the course .

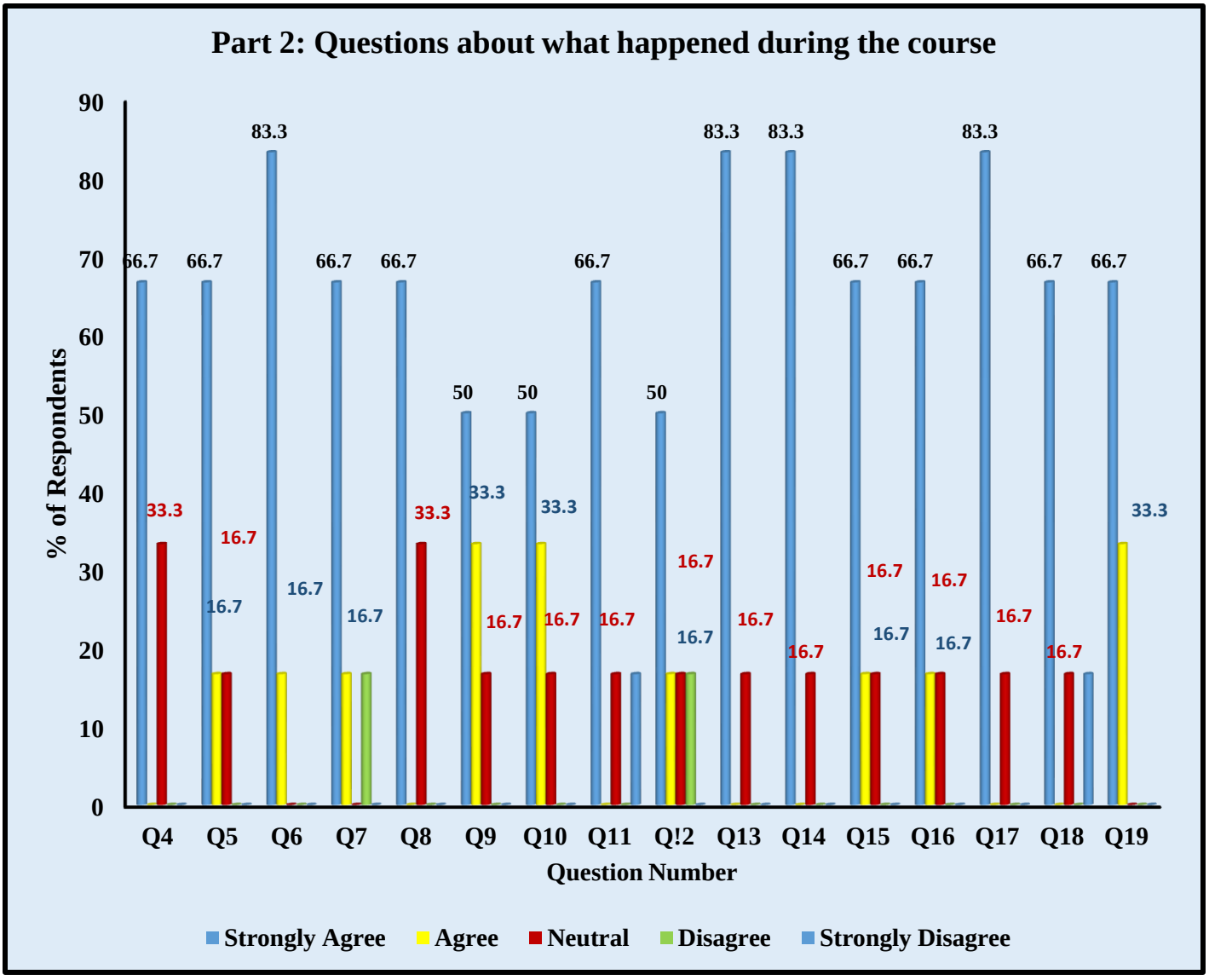


Fig.14: The percent of respondents for each question in Part 2: Questions about What Happened during the Course.

Part 3:

In the course evaluation survey , part 3 contains 5 questions about “Evaluation of the Course”. The results are stated below:

Part 3: Evaluation of the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q20	% of respondents	66.7	16.7	16.7	0	0	100
	Number of respondents	4	1	1	0	0	6
Q21	% of respondents	66.7	0	33.3	0	0	100
	Number of respondents	4	0	2	0	0	6
Q22	% of respondents	66.7	0	16.7	16.7	0	100
	Number of respondents	4	0	1	1	0	6
Q23	% of respondents	66.7	16.7	16.7	0	0	100
	Number of respondents	4	1	1	0	0	6
Q24	% of respondents	66.7	16.7	16.7	0	0	100
	Number of respondents	4	1	1	0	0	6

The course surveyed a total of 6 students (100 %). The results of part 3 (Evaluation of the Course) showed that 100 % students responded to the questions of this part. Overall, 75% of responses were “Agree” and favorable toward satisfaction, 20 % of responses were “Neutral”, 5 % of responses were “Disagree”, and 0% had no responses.

Questions 20, 23, and 24 yielded the largest number of “Agree” responses with 76.7 % of respondents agreeing that improvement of their communication, solving problems, and working in group effectively rather than memorizing knowledge.

About 16.7 % “Disagree” responses recorded from the respondents for Q22, since the students disagreed with the activities improving their communication skills and their experts in field.

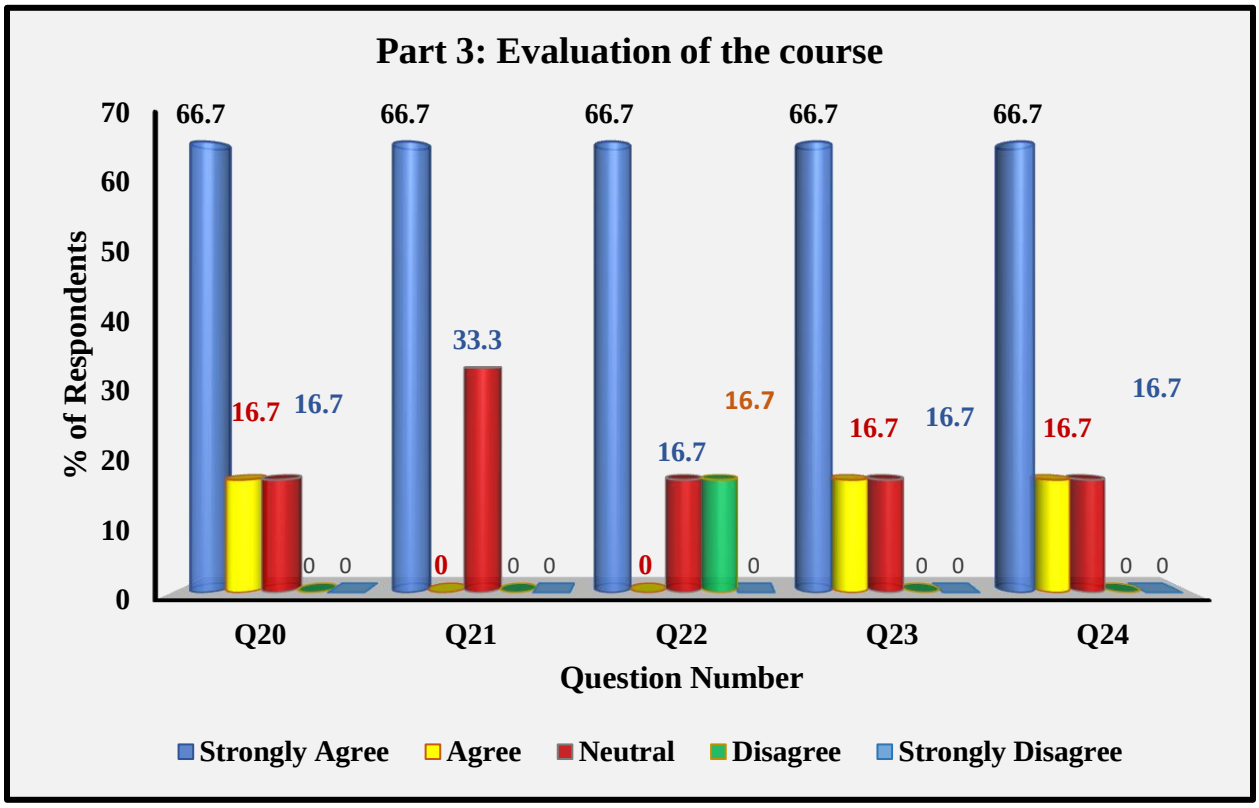


Fig.15: The percent of respondents for each question in Part 3: Evaluation of the Course.

Part 4:

Part 4 contains 3 open ended questions asking the students about their likeness and dislikes for the course, in addition to their suggestion for course improvement. 100 % of students responded to these questions. Most of the responses mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being “nice,” “caring about the subject,” and “patient,” were frequent. Many answers also focus on the course itself, whether it was “well organized and structured,” considered “relevant” to the academic program, and “interesting” that improved their skills effectively.

Students also commented on their needs for more workshops and training in field. Moreover, the practical part of the course was not enough for them and expressed about their need for more practicing on the field and solving problems.

Course Title: Radiation Protection
Course Code: 403388
Instructor: Dr/ Taha Elfawal

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. additionally, writing responses were reviewed and summarized.

However, the students taken this survey were 12 in total, only 8 of them responded to the survey. About 75 % of students were in level 7, while the rest of students taken the survey were from level 4 (12.5%) and level 5 (12.5%). The percent of students participated in this survey for each level is represented in the graph below:

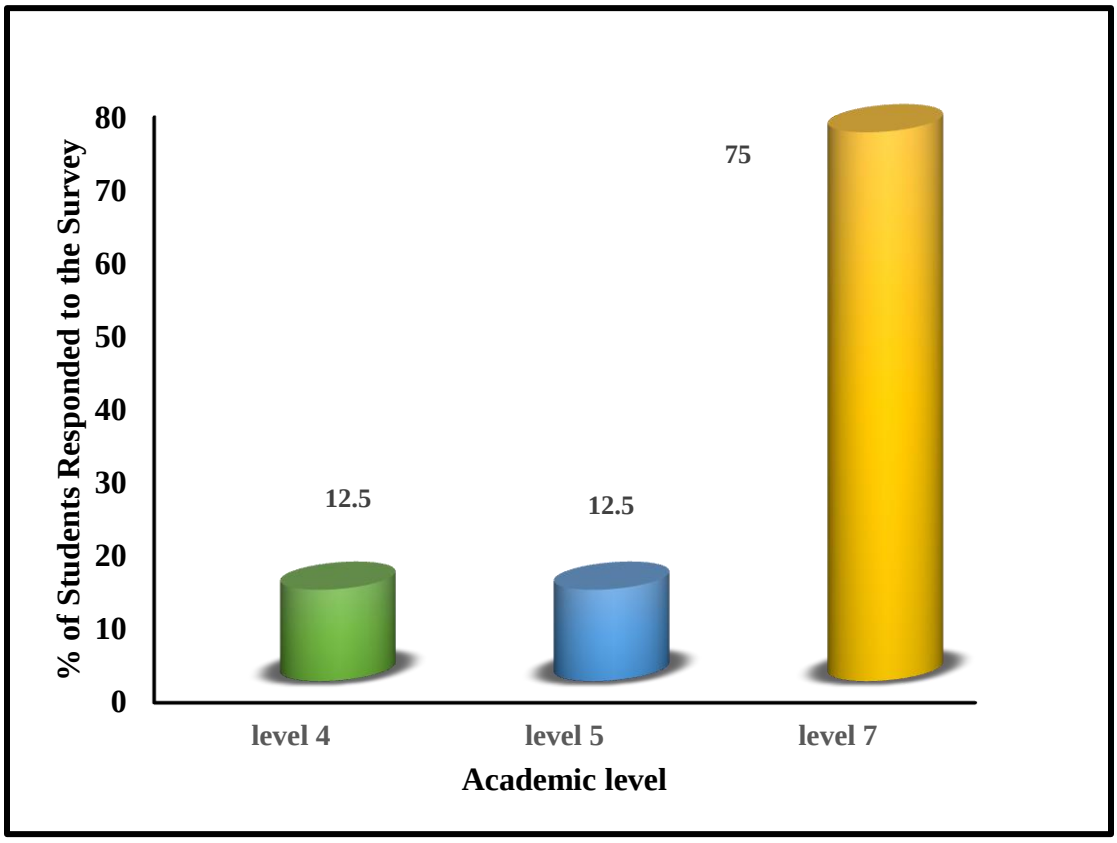


Fig.16: The percent of students participated in the radiation protection the course evaluation survey for each academic level.

Part 1:

In the course evaluation survey , part 1 contains 3 questions about “the start of the course”. The results are stated below:

Part 1: Questions about the start of the course:						
Q. No.	Question 1		Question 2		Question 3	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	5	62.5	4	50	4	50
Agree	2	25	3	37.5	2	25
neutral	1	12.5	1	12.5	2	25
Disagree	0	0	0	0	0	0
Strongly Disagree	0	0	0	0	0	0
Total	**8**	**100**	**8**	**100**	**8**	**100**

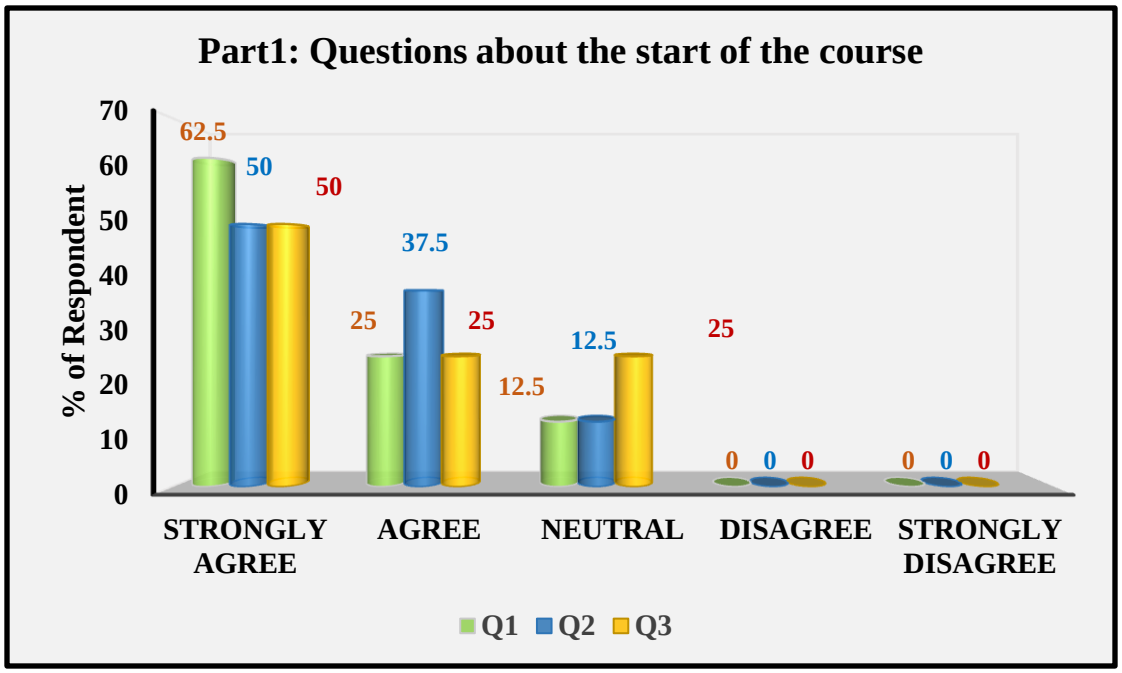


Fig.17: The percent of respondents for each question in Part 1: Questions about the Start of the Course.

The course surveyed by a total of 8 students (66.67 % of students started the course this semester). The results of part 1 (Questions about the Start of the Course)) showed that 100% students responded to the questions of this part. Overall, 83% of responses were "Agree" and favorable toward satisfaction, 17% of responses were "Neutral", 0% of responses were "Disagree", and 0% had no responses.

Questions 1, and 2 yielded the largest number of "Agree" responses with 87.5% of respondents agreeing about the clarity of both course outline and assessment tasks of the course.

Part 2:

In the course evaluation survey, part 2 contains 16 questions about "What Happened during the Course". The results are stated below:

Part 2: Questions about what happened during the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q4	% of respondents	50	25	25	0	0	100
	Number of respondents	4	2	2	0	0	8
Q5	% of respondents	62.5	25	12.5	0	0	100
	Number of respondents	5	2	1	0	0	8
Q6	% of respondents	75	12.5	12.5	0	0	100
	Number of respondents	6	1	1	0	0	8
Q7	% of respondents	75	12.5	12.5	0	0	100
	Number of respondents	6	1	1	0	0	8
Q8	% of respondents	62.5	25	12.5	0	0	100
	Number of respondents	5	2	1	0	0	8
Q9	% of respondents	62.5	25	12.5	0	0	100
	Number of	5	2	1	0	0	8

	respondents						
Q10	**% of respondents**	62.5	12.5	12.5	12.5	0	**100**
	Number of respondents	5	1	1	1	0	**8**
Q11	**% of respondents**	25	37.5	12.5	25	0	**100**
	Number of respondents	2	3	1	2	0	**8**
Q!2	**% of respondents**	62.5	0	37.5	0	0	**100**
	Number of respondents	5	0	3	0	0	**8**
Q13	**% of respondents**	62.5	25	12.5	0	0	**100**
	Number of respondents	5	2	1	0	0	**8**
Q14	**% of respondents**	50	25	25	0	0	**100**
	Number of respondents	4	2	2	0	0	**8**
Q15	**% of respondents**	62.5	37.5	0	0	0	**100**
	Number of respondents	5	3	0	0	0	**8**
Q16	**% of respondents**	62.5	12.5	25	0	0	**100**
	Number of respondents	5	1	2	0	0	**8**
Q17	**% of respondents**	62.5	12.5	25	0	0	**100**
	Number of respondents	5	1	2	0	0	**8**
Q18	**% of respondents**	62.5	12.5	12.5	12.5	0	**100**
	Number of respondents	5	1	1	1	0	**8**
Q19	**% of respondents**	50	37.5	12.5	0	0	**100**
	Number of respondents	4	3	1	0	0	**8**

The course surveyed a total of 8 students (66.67 % of students started the course this semester). The results of part 2 (Questions about What Happened during the Course) showed that 100 % students responded to the questions of this part. Overall, 80% of

responses were “Agree” and favorable toward satisfaction, 13 % of responses were “Neutral”, 5 % of responses were “Disagree”, and 0% had no responses.

Question 15 yielded the largest number of “Agree” responses with 100 % of respondents agreeing that they were satisfied with both class activities, assignments, etc were helpful for developing their knowledge and skills related the course.

Questions 9, 10, 11, and 13 yielded the largest number of “Agree” responses with 84% of respondents agreeing that they were satisfied with the good quality of the classrooms and computing facilities.

The largest number of “Disagree” responses corresponds to Question 12. Almost 20 % of respondents disagreed with the statements indicating that adequate availability resources they needed for execution of course’s activities.

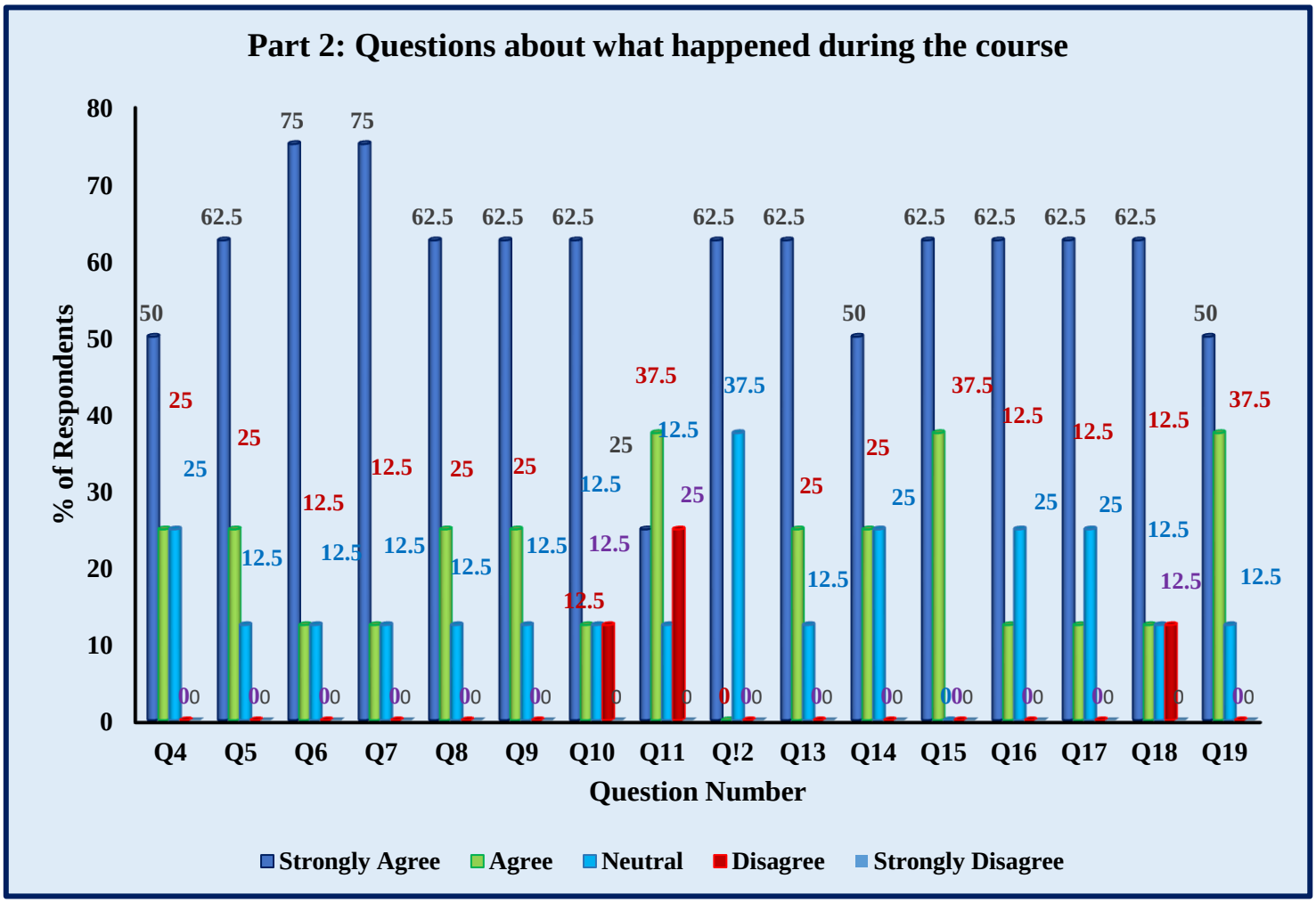


Fig.18: The percent of respondents for each question in Part 2: Questions about What Happened during the Course.

Part 3:

In the course evaluation survey, part 3 contains 5 questions about “Evaluation of the Course”. The results are stated below:

Part 3: Evaluation of the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q20	% of respondents	75	25	0	0	0	100
	Number of respondents	6	2	0	0	0	8
Q21	% of respondents	62.5	37.5	0	0	0	100
	Number of respondents	5	3	0	0	0	8
Q22	% of respondents	62.5	25	12.5	0	0	100
	Number of respondents	5	2	1	0	0	8
Q23	% of respondents	37.5	62.5	0	0	0	100
	Number of respondents	3	5	0	0	0	8
Q24	% of respondents	62.5	12.5	25	0	0	100
	Number of respondents	5	1	2	0	0	8

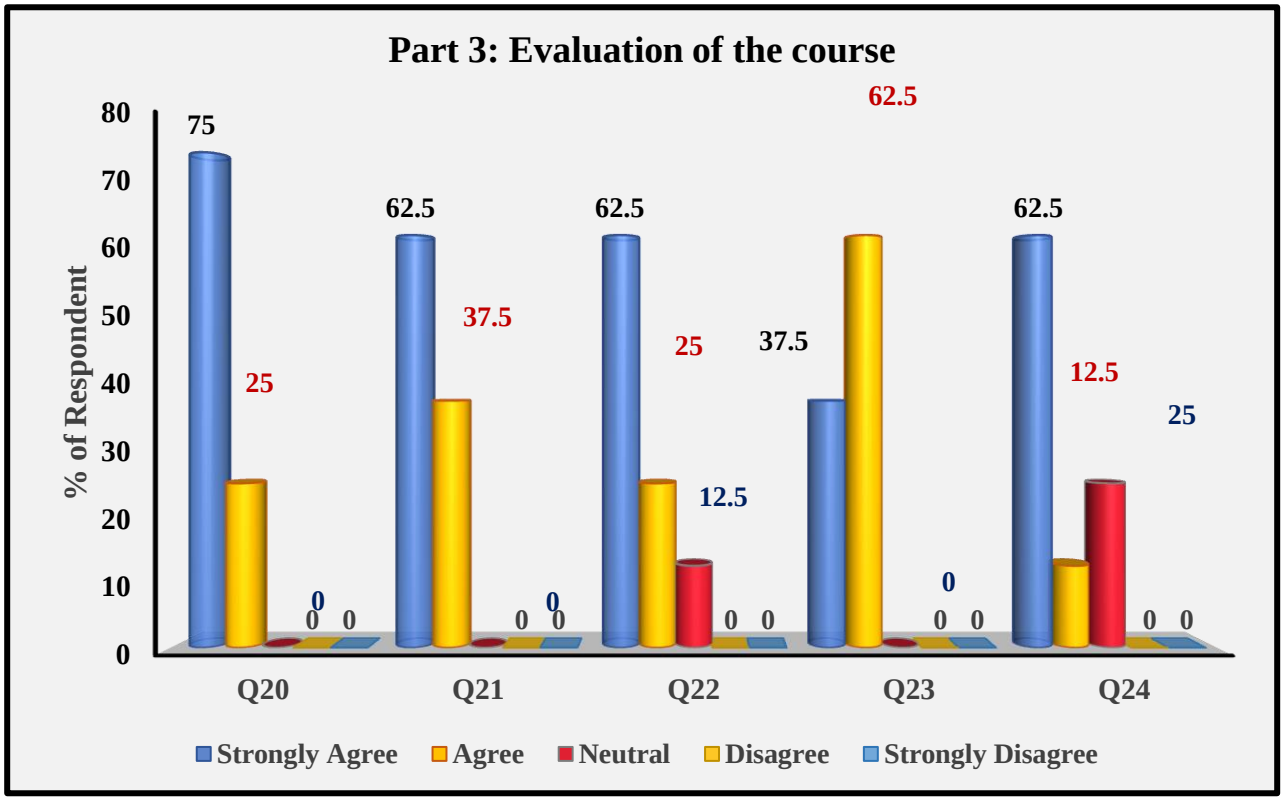


Fig.19: The percent of respondents for each question in Part 3: Evaluation of the Course.

The course surveyed a total of 8 students (66.67 % of students started the course this semester). The results of part 3 (Evaluation of the Course) showed that 100 % students responded to the questions of this part. Overall, 90% of responses were "Agree" and favorable toward satisfaction, 10 % of responses were "Neutral", 0 % of responses were "Disagree", and 0% had no responses.

Questions 21 and 23 yielded the largest number of "Agree" responses with 100 % of respondents agreeing that improvement of their communication, solving problems, and working in groups effectively rather than memorizing knowledge.

No "Disagree" responses recorded from the respondents, since the course is related to their expertise in the field.

Part 4:

Part 4 contains 3 open ended questions asking the students about their likeness and dislikes for the course, in addition to their suggestion for course improvement. 100 % of students responded to these questions. Most of the responses mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being "nice," "caring about the subject," and "patient," were frequent. Many answers also focus on the course itself, whether it was "well organized and structured," considered "relevant" to the academic program, and "interesting" that improved their skills effectively.

Students also commented on their needs for more workshops and training in field. Moreover, the practical part of the course was not enough for them and expressed about their need for more practicing in field.

Course Title: Physics of Radiation Therapy 2
Course Code: 403493
Instructor: Dr./ Samir Naetto

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. Additionally, writing responses was reviewed and summarized.

However, the students taken this survey was 20 in total, only 8 of them responded to the survey. About 87.5 % of students were at level 7, while the rest of the students taken the survey were from level 3 (12.5 %). The percent of students participated in this survey for each level are represented in the graph below:

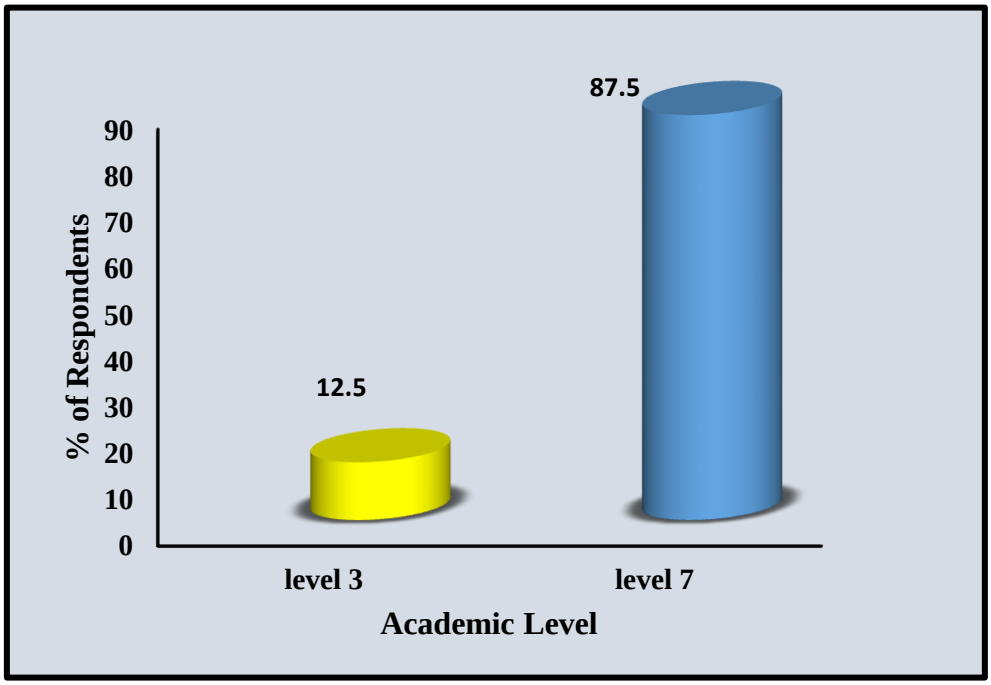


Fig.20: The percent of students participated in Health Physics The course evaluation survey for each academic level.

Part 1:

In the course evaluation survey , part 1 contains 3 questions about “the start of the course”. The results are stated below:

Part 1: Questions about the start of the course:						
Q. No.	Question 1		Question 2		Question 3	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	4	50	5	62.5	7	87.5
Agree	3	37.5	2	25	1	12.5
neutral	1	12.5	1	12.5	0	0
Disagree	0	0	0	0	0	0
Strongly Disagree	0	0	0	0	0	0
Total	**8**	**100**	**8**	**100**	**8**	**100**

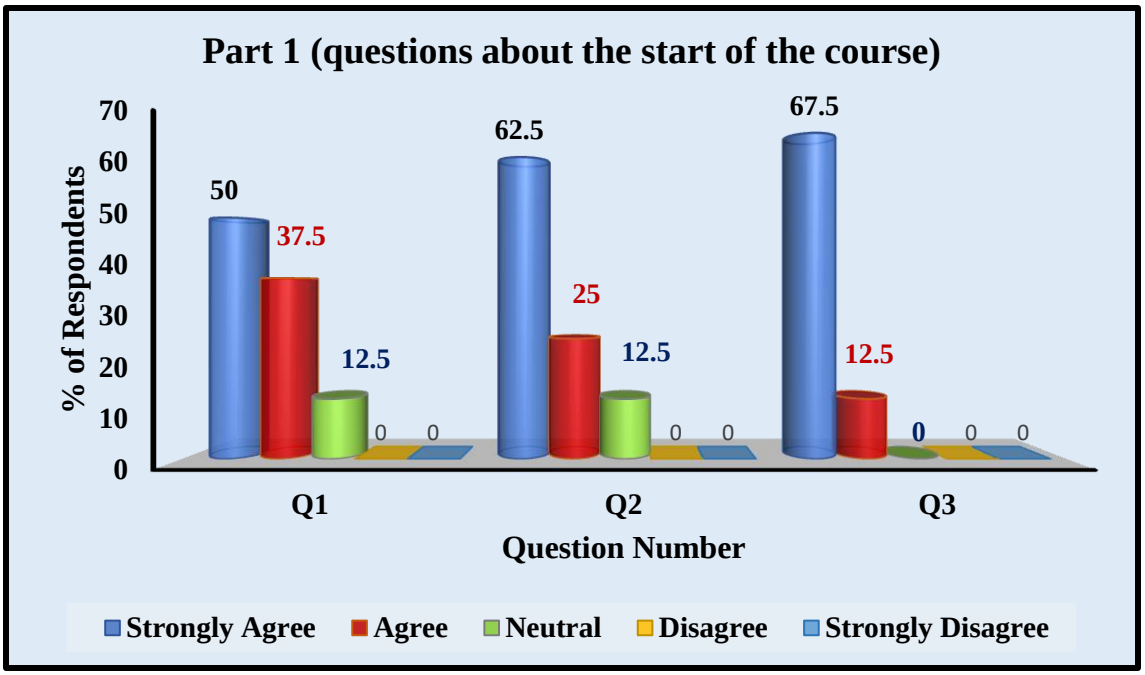


Fig.21: The percent of respondents for each question in Part 1: Questions about the Start of the Course.

The course surveyed by a total of 8 students (40 % of students started the course this semester). The results of part 1 (Questions about the Start of the Course)) showed that 100% students responded to the questions of this part. Overall, 85 % of responses were "Agree" and favorable toward satisfaction, 15 % of responses were "Neutral", 0 % of responses were "Disagree", and 0% had no responses.

Questions 1, and 2 yielded the largest number of "Agree" responses with 87 % of respondents agreeing about the clarity of both course outline and assessment tasks of the course.

Part 2:

In the course evaluation survey , part 2 contains 16 questions about "What Happened during the Course". The results are stated below:

Part 2: Questions about what happened during the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q4	% of respondents	87.5	12.5	0	0	0	100
	Number of respondents	7	1	0	0	0	8
Q5	% of respondents	87.5	12.5	0	0	0	100
	Number of respondents	7	1	0	0	0	8
Q6	% of respondents	62.5	37.5	0	0	0	100
	Number of respondents	5	3	0	0	0	8
Q7	% of respondents	75	25	0	0	0	100
	Number of respondents	6	2	0	0	0	8
Q8	% of respondents	75	0	25	0	0	100
	Number of respondents	6	0	2	0	0	8
Q9	% of respondents	25	62.5	12.5	0	0	100
	Number of	2	5	1	0	0	8

	respondents						
Q10	**% of respondents**	75	25	0	0	0	**100**
	Number of respondents	6	2	0	0	0	**8**
Q11	**% of respondents**	62.5	25	12.5	0	0	**100**
	Number of respondents	5	2	1	0	0	**8**
Q12	**% of respondents**	100	0	0	0	0	**100**
	Number of respondents	8	0	0	0	0	**8**
Q13	**% of respondents**	50	25	25	0	0	**100**
	Number of respondents	4	2	2	0	0	**8**
Q14	**% of respondents**	50	37.5	12.5	0	0	**100**
	Number of respondents	4	3	1	0	0	**8**
Q15	**% of respondents**	50	37.5	12.5	0	0	**100**
	Number of respondents	4	3	1	0	0	**8**
Q16	**% of respondents**	62.5	37.5	0	0	0	**100**
	Number of respondents	5	3	0	0	0	**8**
Q17	**% of respondents**	62.5	37.5	0	0	0	**100**
	Number of respondents	5	3	0	0	0	**8**
Q18	**% of respondents**	62.5	25	12.5	0	0	**100**
	Number of respondents	5	2	1	0	0	**8**
Q19	**% of respondents**	50	25	12.5	0	12.5	**100**
	Number of respondents	4	2	1	0	1	**8**

The course surveyed a total of 8 students (40 % of the students started the course this semester). The results of part 2 (Questions about What Happened during the Course) showed that 100 % students responded to the questions of this part. Overall, 85 % of

responses were “Agree” and favorable toward satisfaction, 12 % of responses were “Neutral”, 5 % of responses were “Disagree”, and 0% had no responses.

Questions 4, 5, 6, 10, 12, 16, and 17 yielded the largest number of “Agree” responses with 100 % of respondents agreeing that they were satisfied the expert of the instructor and his availability during office hours, in addition to the course materials, assignments and the development of their skills.

The the largest number of “Disagree” responses corresponds to Question 19. Almost 12.5 % of respondents disagreed with the statements indicating that the clarity of the link between the course and other courses of the program.

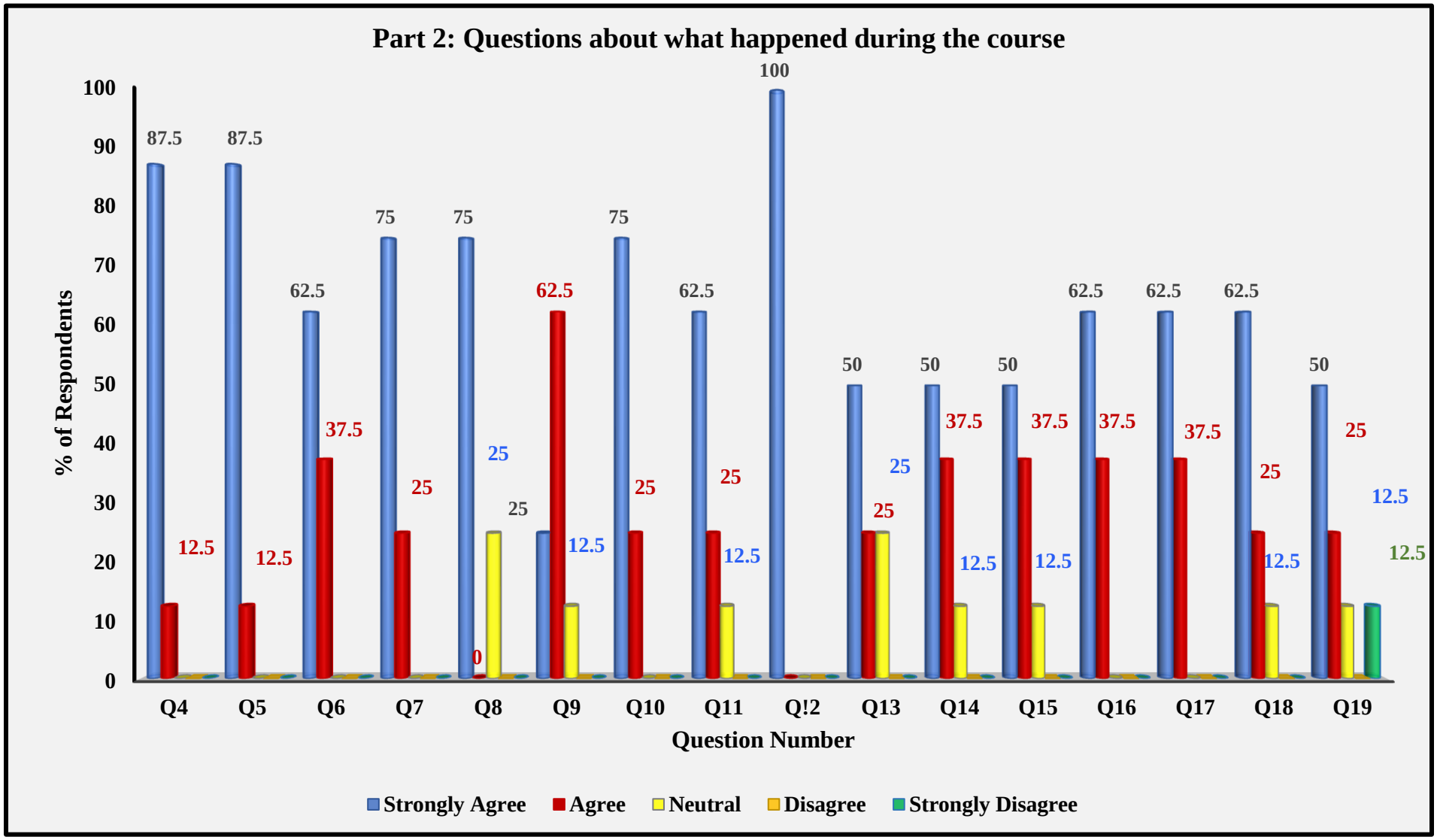


Fig.22: The percent of respondents for each question in Part 2: Questions about What Happened during the Course.

Part 3:

In the course evaluation survey , part 3 contains 5 questions about “Evaluation of the Course”. The results are stated below:

Part 3: Evaluation of the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q20	% of respondents	62.5	37.5	0	0	0	100
	Number of respondents	5	3	0	0	0	8
Q21	% of respondents	62.5	25	12.5	0	0	100
	Number of respondents	5	2	1	0	0	8
Q22	% of respondents	62.5	12.5	12.5	12.5	0	100
	Number of respondents	5	1	1	1	0	8
Q23	% of respondents	62.5	25	12.5	0	0	100
	Number of respondents	5	2	1	0	0	8
Q24	% of respondents	50	50	0	0	0	100
	Number of respondents	4	4	0	0	0	8

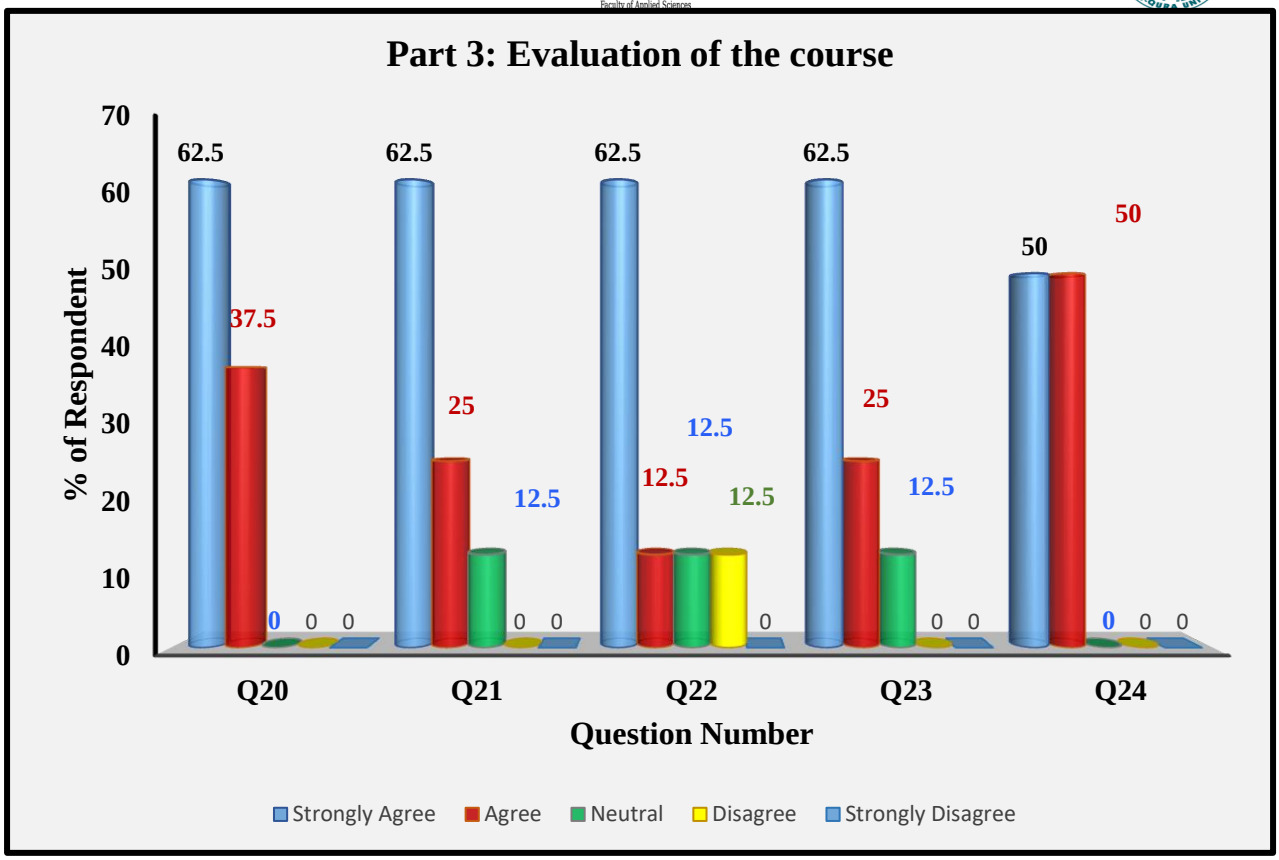


Fig.23: The percent of respondents for each question in Part 3: Evaluation of the Course.

The course surveyed a total of 6 students (40 % of the students started the course this semester). The results of part 3 (Evaluation of the Course) showed that 100 % students responded to the questions of this part. Overall, 82 % of responses were “Agree” and favorable toward satisfaction, 13 % of responses were “Neutral”, 5 % of responses were “Disagree”, and 0% had no responses.

Questions 20, and 24 yielded the largest number of “Agree” responses with 100 % of respondents agreeing that improvement of their communication, solving problems, and working in groups effectively rather than memorizing knowledge.

About 12.5 % “Disagree” responses recorded from the respondents for Q22, since the students disagreed with the activities, improving their communication skills and their experts in the field.

Part 4:

Part 4 contains 3 open ended questions asking the students about their likeness and dislikes for the course, in addition to their suggestion for course improvement. 100 % of students responded to these questions. Most of the responses mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being “nice,” “caring about the subject,” and “patient,” were frequent. Many answers also focus on the course itself, whether it was “well organized and structured,” considered “relevant” to the academic program, and “interesting” that improved their skills effectively.

Students also commented on their needs for more workshops, practical activities, and training in the field. Moreover, the activities of the course was not enough for them and expressed about their need for more practicing on the field and solving problems.

Course Title: Physics of Biomaterials
Course Code: 403496
Instructor: Dr./ Hosam Ibrahim

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. Additionally, writing responses was reviewed and summarized.

The students are taken this survey were 26 in total, and all of them (100%) responded to the survey. 7.7 % of the respondents were in level 6, 76.9 % of respondents were at level 7, while 15.4% were from level 8 (12.5 %). The percent of students participated in this survey for each level are represented in the graph below:

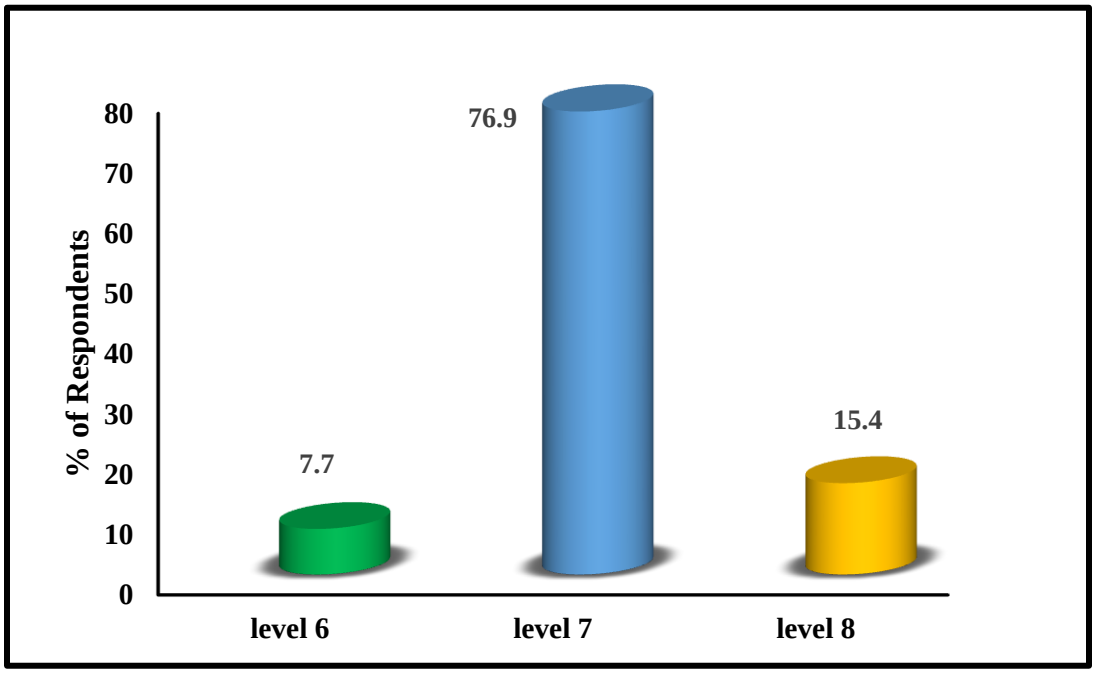


Fig.24: The percent of students participated in Health Physics The course evaluation survey for each academic level.

Part 1:

In the course evaluation survey , part 1 contains 3 questions about “the start of the course”. The results are stated below:

Part 1: Questions about the start of the course:						
Q. No.	Question 1		Question 2		Question 3	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	17	65.4	18	69.2	15	57.7
Agree	8	30.8	7	26.9	9	34.6
neutral	1	3.8	1	3.9	2	7.7
Disagree	0	0	0	0	0	0
Strongly Disagree	0	0	0	0	0	0
Total	**26**	**100**	**26**	**100**	**26**	**100**

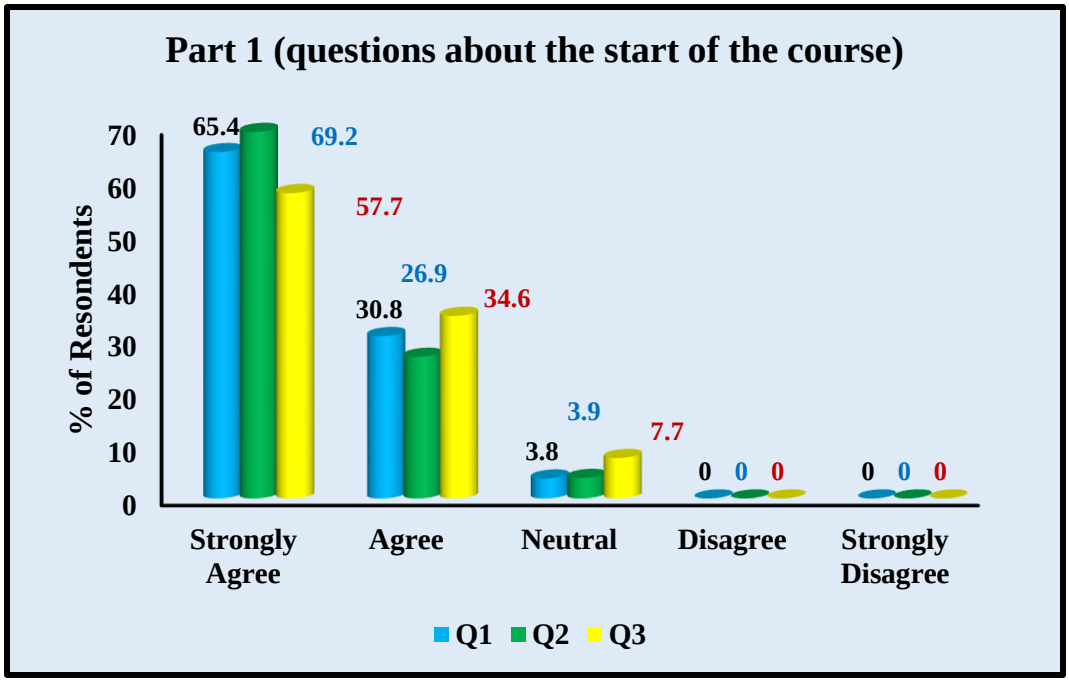


Fig.25: The percent of respondents for each question in Part 1: Questions about the Start of the Course.

The course surveyed with a total of 26 students (100 % of students started the course this semester). The results of part 1 (Questions about the Start of the Course)) showed that 100% students responded to the questions of this part. Overall, 95 % of responses were "Agree" and favorable toward satisfaction, 5 % of responses were "Neutral", 0 % of responses were "Disagree", and 0% had no responses.

Questions 1, and 2 yielded the largest number of "Agree" responses with 87 % of respondents agreeing about the clarity of both course outline and assessment tasks of the course.

Part 2:

In the course evaluation survey, part 2 contains 16 questions about "What Happened during the Course". The results are stated below:

Part 2: Questions about what happened during the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q4	% of respondents	53.8	23.1	19.2	3.9	0	100
	Number of respondents	14	6	5	1	0	26
Q5	% of respondents	69.2	26.9	0	0	3.9	100
	Number of respondents	18	7	0	0	1	26
Q6	% of respondents	80.8	7.7	7.5	3.9	0	100
	Number of respondents	21	2	2	1	0	26
Q7	% of respondents	61.5	26.9	7.7	3.9	0	100
	Number of respondents	16	7	2	1	0	26
Q8	% of respondents	76.9	15.4	7.7	0	0	100
	Number of respondents	20	4	2	0	0	26
Q9	% of respondents	57.7	30.8	11.5	0	0	100
	Number of	15	8	3	0	0	26

	respondents						
Q10	**% of respondents**	46.2	34.6	15.4	3.9	0	**100**
	Number of respondents	12	9	4	1	0	**26**
Q11	**% of respondents**	53.8	26.9	15.4	3.9	0	**100**
	Number of respondents	14	7	4	1	0	**26**
Q12	**% of respondents**	69.2	23.1	3.9	0	3.8	**100**
	Number of respondents	18	6	1	0	1	**26**
Q13	**% of respondents**	46.2	34.6	15.4	3.9	0	**100**
	Number of respondents	12	9	4	1	0	**26**
Q14	**% of respondents**	50	42.3	7.7	0	0	**100**
	Number of respondents	13	11	2	0	0	**26**
Q15	**% of respondents**	46.2	30.8	19.2	0	3.9	**100**
	Number of respondents	12	8	5	0	1	**26**
Q16	**% of respondents**	57.7	34.6	3.9	3.9	0	**100**
	Number of respondents	15	9	1	1	0	**26**
Q17	**% of respondents**	76.9	23.1	0	0	0	**100**
	Number of respondents	20	6	0	0	0	**26**
Q18	**% of respondents**	84.6	7.7	3.9	3.8	0	**100**
	Number of respondents	22	2	2	1	0	**26**
Q19	**% of respondents**	50	46.2	3.9	0	0	**100**
	Number of respondents	13	12	1	0	0	**26**

The course surveyed a total of 26 students (100 % of the students started the course this semester). The results of part 2 (Questions about What Happened during the Course) showed that 100 % students responded to the questions of this part. Overall, 89 % of

responses were “Agree” and favorable toward satisfaction, 9 % of responses were “Neutral”, 2 % of responses were “Disagree”, and 0% had no responses.

Questions 5, 8,12, 14, 16, 17, and 19 yielded the largest number of “Agree” responses with more than 90 % of respondents agreeing that they were satisfied the expert of the instructor and his availability during office hours, in addition to the course materials, assignments and the development of their skills.

Minor percent of respondents (1 student) recorded “Disagree” responses corresponds to Questions 10, 11, 16, 18 and19. Almost 3.9 % of respondents disagreed with the statements indicating that the clarity of the link between the course and other courses of the program and assessment methods.

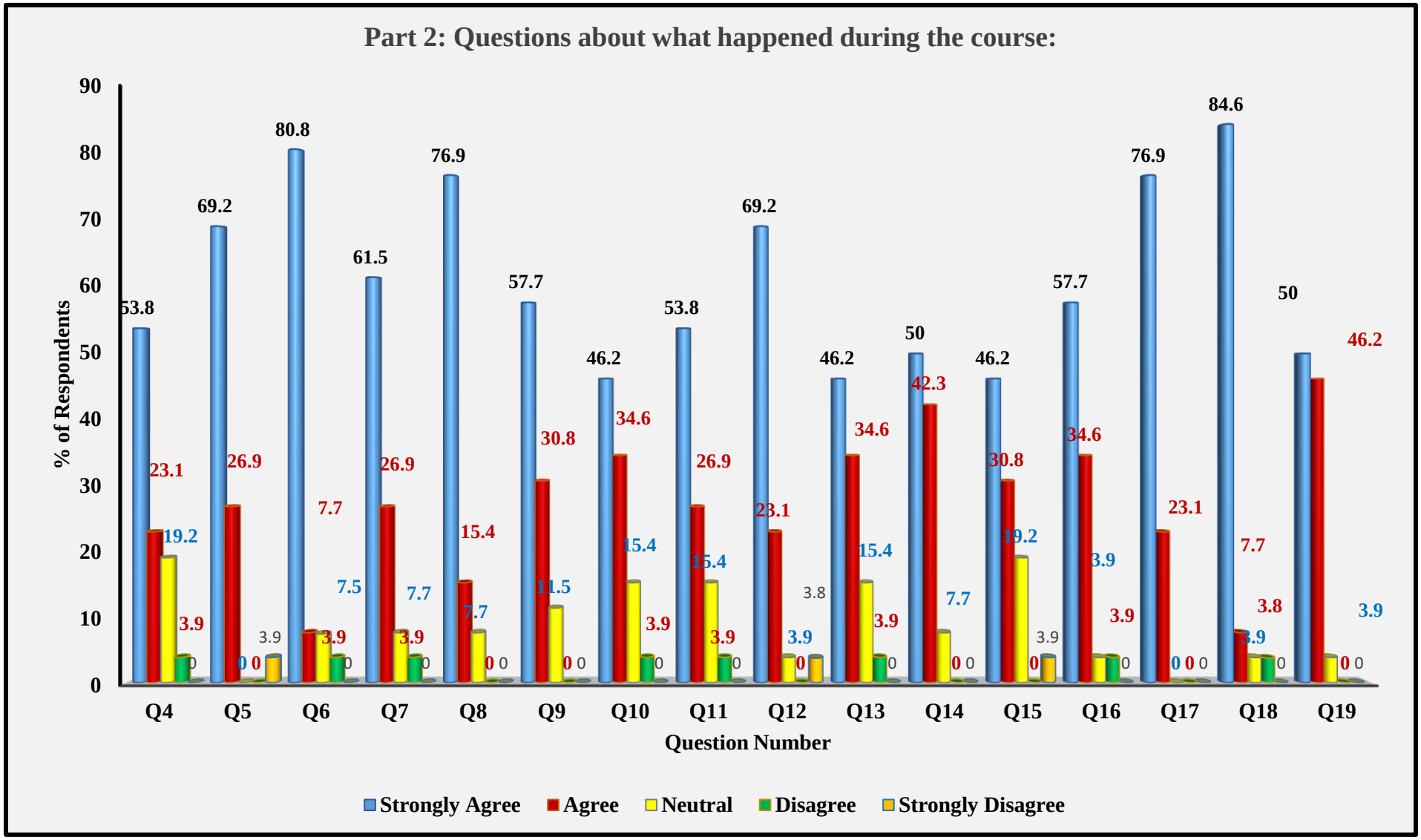


Fig.26: The percent of respondents for each question in Part 2: Questions about What Happened during the Course.

Part 3:

In the course evaluation survey, part 3 contains 5 questions about “Evaluation of the Course”. The results are stated below:

Part 3: Evaluation of the course:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q20	% of respondents	57.7	30.8	11.5	0	0	100
	Number of respondents	15	8	3	0	0	26
Q21	% of respondents	38.5	42.3	19.2	0	0	100
	Number of respondents	10	11	5	0	0	26
Q22	% of respondents	42.3	26.9	30.8	0	0	100
	Number of respondents	11	7	8	0	0	26
Q23	% of respondents	34.6	42.3	15.4	7.7	0	100
	Number of respondents	9	11	4	2	0	26
Q24	% of respondents	61.5	38.5	0	0	0	100
	Number of respondents	16	10	0	0	0	26

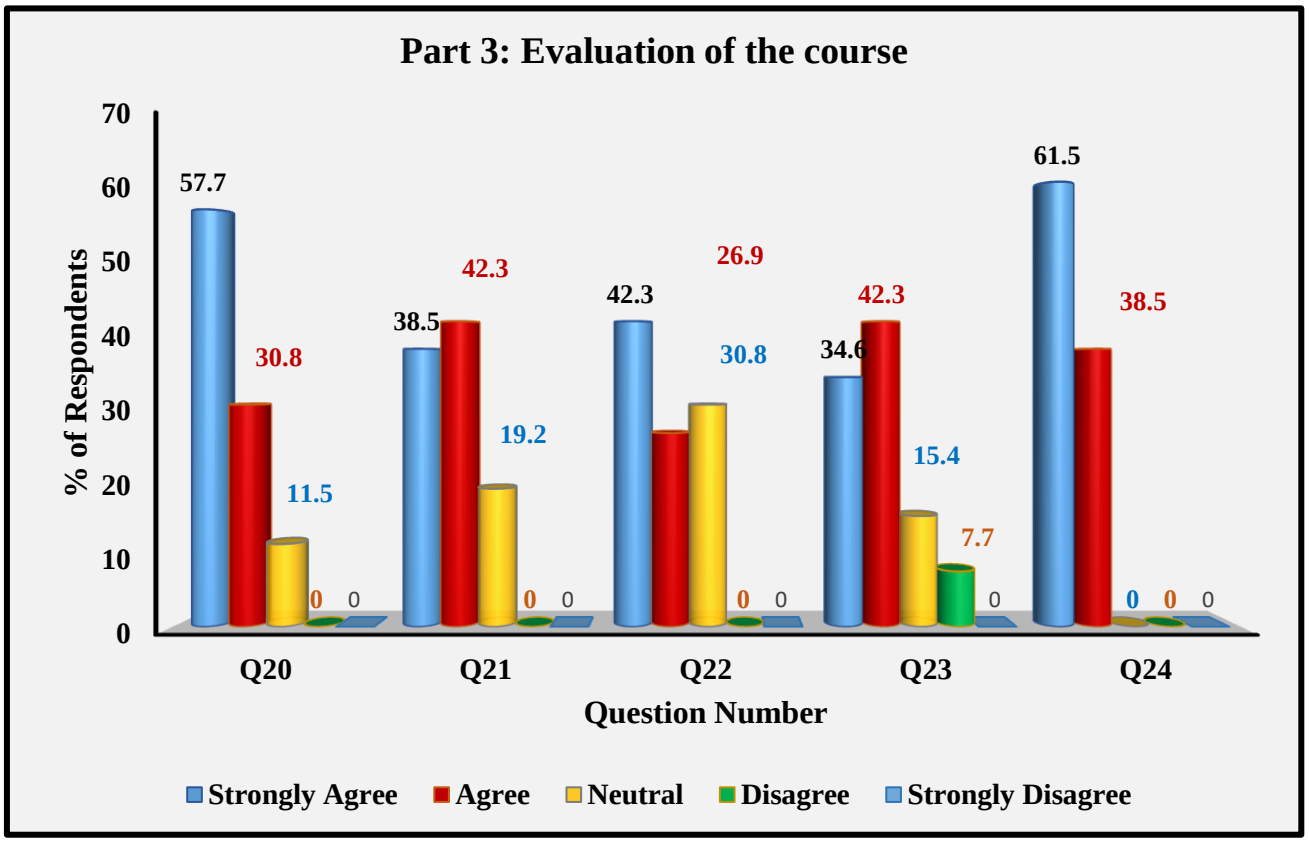


Fig.27: The percent of respondents for each question in Part 3: Evaluation of the Course.

The course surveyed a total of 26 students (100 % of the students started the course this semester). The results of part 3 (Evaluation of the Course) showed that 100 % students responded to the questions of this part. Overall, 83 % of responses were “Agree” and favorable toward satisfaction, 15 % of responses were “Neutral”, 2 % of responses were “Disagree”, and 0% had no responses.

Question 24 yielded the largest number of “Agree” responses with 100 % of respondents agreeing that improvement of their communication, solving problems, and working in groups effectively rather than memorizing knowledge.

About 7.7 % “Disagree” responses recorded from the respondents for Q23 and expressed their need for more activities in the course to improve their communication skills effectively.

Part 4:

Part 4 contains 3 open ended questions asking the students about their likeness and dislikes for the course, in addition to their suggestion for course improvement. 100 % of students responded to these questions. Most of the responses mentioned that the attitude and character of the instructor influence their ratings most. For example, answers like the instructor being “nice,” “caring about the subject,” and “patient,” were frequent. Many answers also focus on the course itself, whether it was “well organized and structured,” considered “relevant” to the academic program, and “interesting” that improved their skills effectively.

Respondents also commented on their needs for a practical part accompanied with the course. Moreover, some of them suggested that the credit hours of the course were not enough for them and expressed about their need to increase the theoretical part.

Report #4: Students' feedback from Student Experience Survey (SES) in the first semester (381) 2017-2018 Plan 33 (Abdeia Campus)

Executive Summery

The Student Experience Survey (SES), originally known as the Program Experience Survey (DES), was created to provide a national framework for collecting feedback on the medical physics student experience. The SES focuses on aspects of the student experience that are measurable, linked with learning and development outcomes, and potentially able to be influenced by the department.

All feedback is confidential and will be used by department, college and university to improve the student experience by enhancing lectures, labs and tutorials, Improving libraries, computer labs and student spaces, recognizing and rewarding good quality teaching, and providing information to students about medical physics program.

Most of respondents agreed about the simplicity and effective courses enrollment offered by the department and the faculty. However, they satisfied with the quality and availability of library resources, they expressed their disagreed about the availability of curricular activities (including sporting and recreational activities)

Most were satisfied with the availability of both library resources and its opening time, however, minor disagreed with the assessment and felt the faculty is unfair in students treatment.

Most of students, 90 per cent, stated that student experience related to medical physics major were very useful and entertain able. They liked their major because of some instructors who were very helpful to them. Additionally, the most thing that they liked is the way of teaching which affected their ability to work effectively and liked the activities because it improved their skills in field

Research Method

Medical physics students (from level 6 to level 8) were invited to participate in an online survey about an evaluation survey of courses of The medical physics program offered in (1438 – 1439H). The survey was active for about two weeks, from 4/4/1439H to 23/4/1439H.

The survey included 22 questions. Most respondents took between 15 to 20 minutes to complete. Survey questions were divided into three sections:

- ***Questions about the institution and program enrollment*** about the availability of institution and its program information, an orientation of the program new students, and the advising counseling, in addition to the course enrollment procedures
- ***Questions about learning resources and facilities*** about the library resources, classrooms and lab quality, computing facilities, religious observances, and extracurricular activities
- ***Questions about learning and teaching*** about working effectively in groups, and career skills communication improvement.
- ***Overall Evaluation question*** to indicate the degree of satisfaction of respondents about the course and the suggestion for improvement.

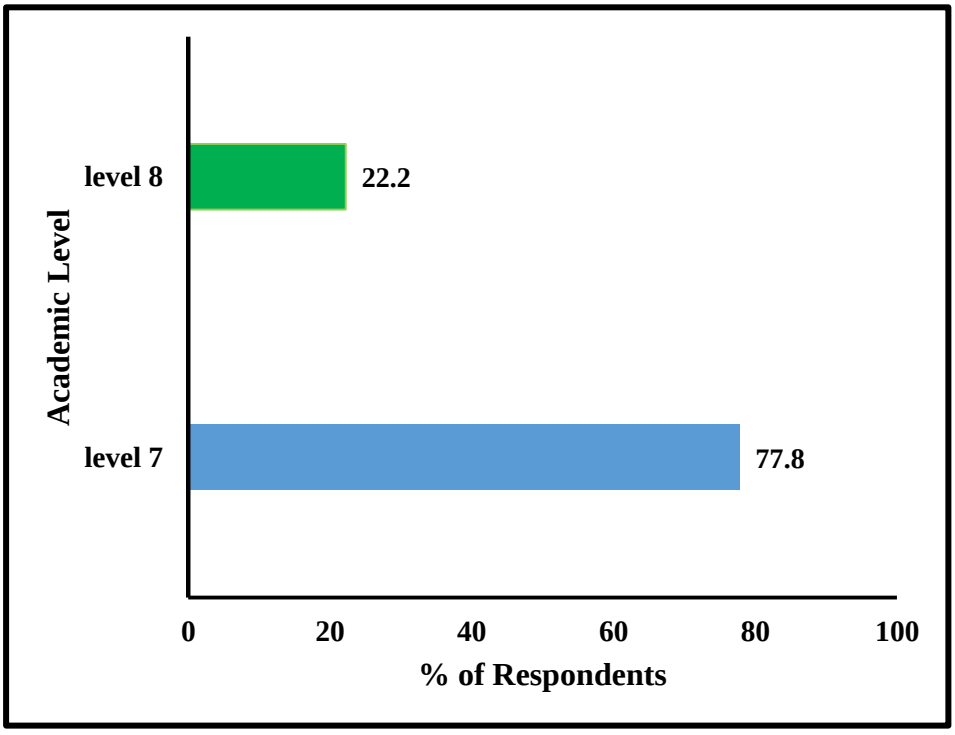
Survey respondents rated the importance of applying data using a five-point scale, ranging from 1 = strongly disagree to 5 = strongly agree. They also responded to 2 open ended questions and provided written responses via text boxes. Refer to *Appendix C* for a copy of the survey.

Analysis of Results

Survey data were analyzed by computing means, standard deviations, percentages, and counts of survey participants who selected a given response. additionally, writing responses were reviewed and summarized.

The students taken this survey were 18 in total, 22.2 % of them were graduate students (level 8), while the rest of students taken the survey were from level 7 (77.8%) to have a feedback of the program at levels of specialty since students of level 7 finished all their academic courses of the program in this level before training in field in level 8. The percent of students participated in this survey for each level is represented in the graph below:

Fig.1: The percent of students participated in the student experience survey for each academic level



Part 1:

Part 1 : Questions about the Institution and its programs								
Q. No.	Question 1		Question 2		Question 3		Question 4	
	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents	Number of respondents	Percent of respondents
Strongly agree	8	44.4	10	55.6	7	38.9	10	55.6
Agree	6	33.3	4	22.2	5	27.8	5	27.8
neutral	4	22.2	4	22.2	4	22.2	2	11.1
Disagree	0	0	0	9	2	11.1	1	5.5
Strongly Disagree	0	0	0	9	0	0	0	0
Total	18	100%	18	100%	18	100%	18	100%

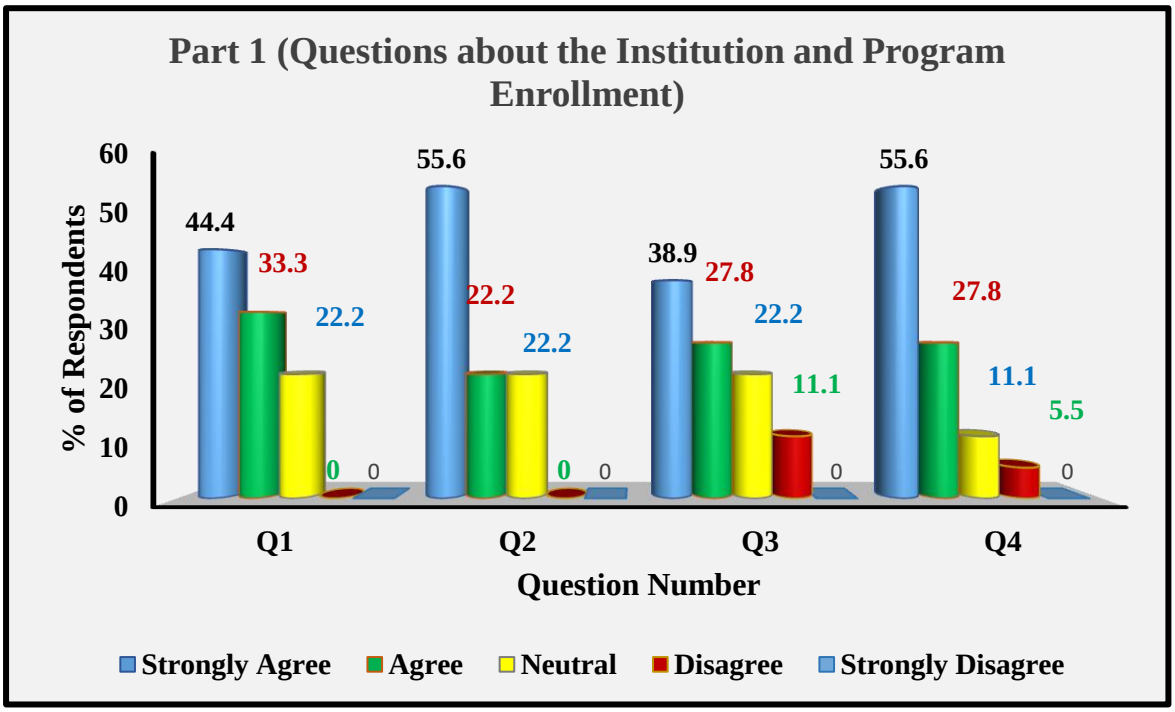
In program evaluation survey, part 1 contains 4 questions about “the Institution and its Programs”. The results are stated below:

The student experience surveyed with a total of 18 students (100%). The results of part 1 (Institution and Program Enrollment) showed that 100 % students responded to the questions of this part. Overall, 76.4 % of responses were “Agree” and favorable toward satisfaction, 19,4% of responses were “Neutral”, 4.5% of responses were “Disagree”, and 0% had no responses.

Question 4 yielded the largest number of “Agree” responses with 83 % of respondents agreeing that they felt simplicity and effective course enrollment

The largest number of "Disagree" responses corresponds to Question 3. Almost 11 % of respondents disagreed with the statements indicating they obtained adequate advising about their study and future career.

Fig.2: The percent of respondents for each question in Part 1: Institution and Program



Enrollment, of the student experience survey.

Part 2:

In the course evaluation survey , part 2 contains 7 questions about "• Questions about learning resources and facilities". The results are stated below:

Part 2: Questions about Learning Resources and Facilities:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q5	% of respondents	38.9	16.7	38.9	5.5	0	100
	Number of respondents	7	3	7	1	0	18
Q6	% of respondents	38.9	44.4	11.1	5.6	0	100
	Number of respondents	7	8	2	1	0	18

Q7	**% of respondents**	38.9	44.4	11.1	5.6	0	**100**
	Number of respondents	7	8	2	1		**18**
Q8	**% of respondents**	50	44.4	5.6	0	0	**100**
	Number of respondents	9	8	1	0	0	**18**
Q9	**% of respondents**	61.1	33.3	5.6	0	0	**100**
	Number of respondents	11	6	1	0	0	**18**
Q10	**% of respondents**	27.8	22.2	22.2	27.8	0	**100**
	Number of respondents	5	4	4	5	0	**18**
Q11	**% of respondents**	66.7	22.2	5.6	0	5.5	**100**
	Number of respondents	12	4	1	0	1	**18**

The student experience surveyed a total of 18 students. The results of part 2 (Learning Resources and facilities) showed that 100 % students responded to the questions of this part. Overall, 79 % of responses were “Agree” and favorable toward satisfaction, 14.3 % of responses were “Neutral”, 7.1 % of responses were “Disagree”, and 0% had no responses.

Questions 7 and 8 yielded the largest number of “Agree” responses with 94.5 % of respondents agreeing that they were satisfied with the availability of both library resources and its time.

The the largest number of “Disagree” responses corresponds to Question 12. Almost 20 % of respondents disagreed with the statements indicating that adequate availability for extracurricular activities including sporting and recreational activities.

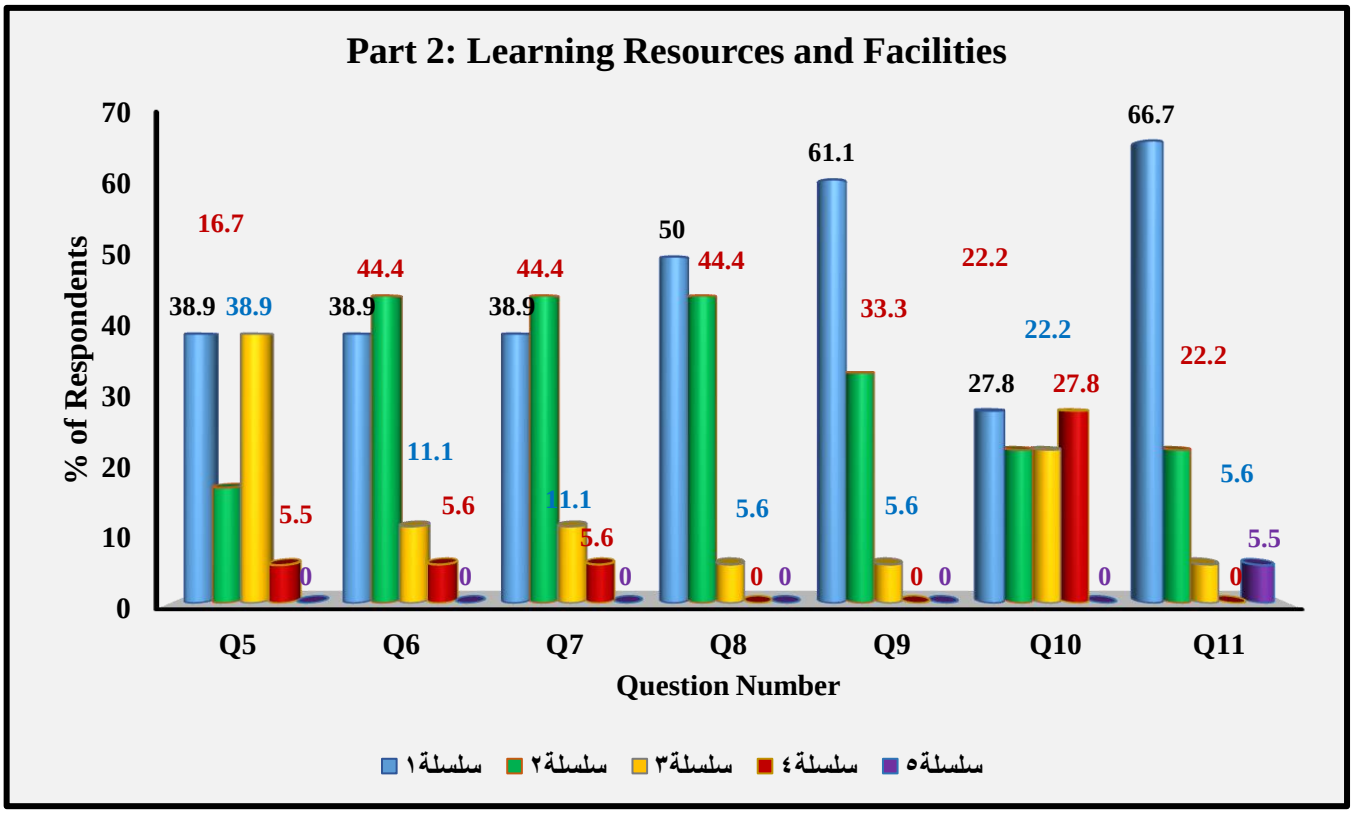


Fig.3: The percent of respondents for each question in Part 2, Learning Resources and Facilities, of the student experience survey

Part 3:

In the student experience survey, part 3 contains 8 questions about "Learning and Teaching". The results are stated below:

Part 2: Questions about Learning and Teaching:							
		Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
Q12	% of respondents	50	50	0	0	0	100
	Number of respondents	9	9	0	0	0	18
Q13	% of respondents	33.3	38.9	22.2	5.6	0	100
	Number of respondents	6	7	4	1	0	18
Q14	% of respondents	33.3	38.9	22.2	5.6	0	100
	Number of respondents	6	7	4	1	0	18
Q15	% of respondents	38.9	44.4	16.7	0	0	100

	Number of respondents	7	8	3	0	0	**18**
Q16	**% of respondents**	38.9	44.4	16.7	0	0	**100**
	Number of respondents	7	8	3	0	0	**18**
Q17	**% of respondents**	61.1	22.2	16.7	0	0	**100**
	Number of respondents	11	4	3	0	0	**18**
Q18	**% of respondents**	61.1	27.8	11.1	0	0	**100**
	Number of respondents	11	5	2	0	0	**18**
Q19	**% of respondents**	44.4	44.4	11.1	0	0	**100**
	Number of respondents	8	8	2	0	0	**18**

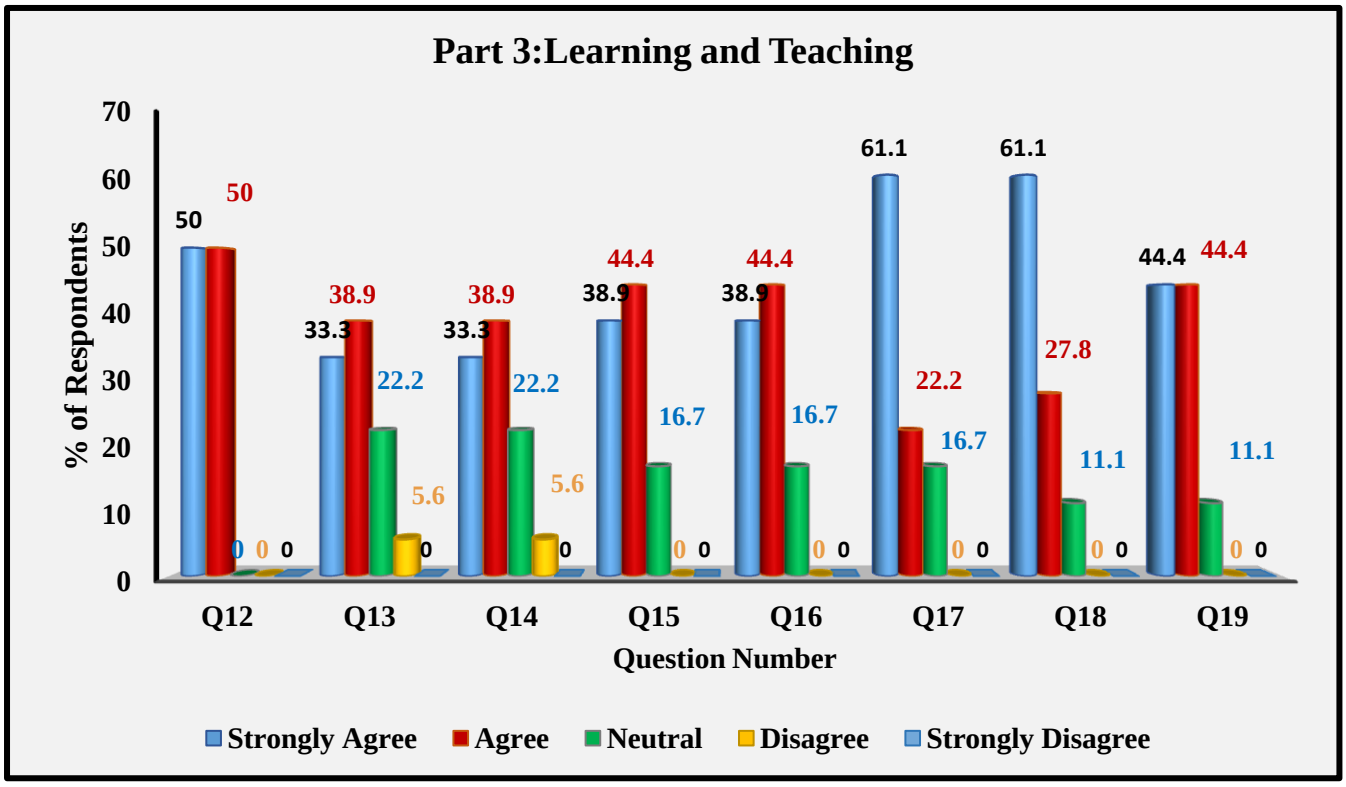


Fig.4: The percent of respondents for each question in Part 3, Learning and Teaching, of the student experience survey

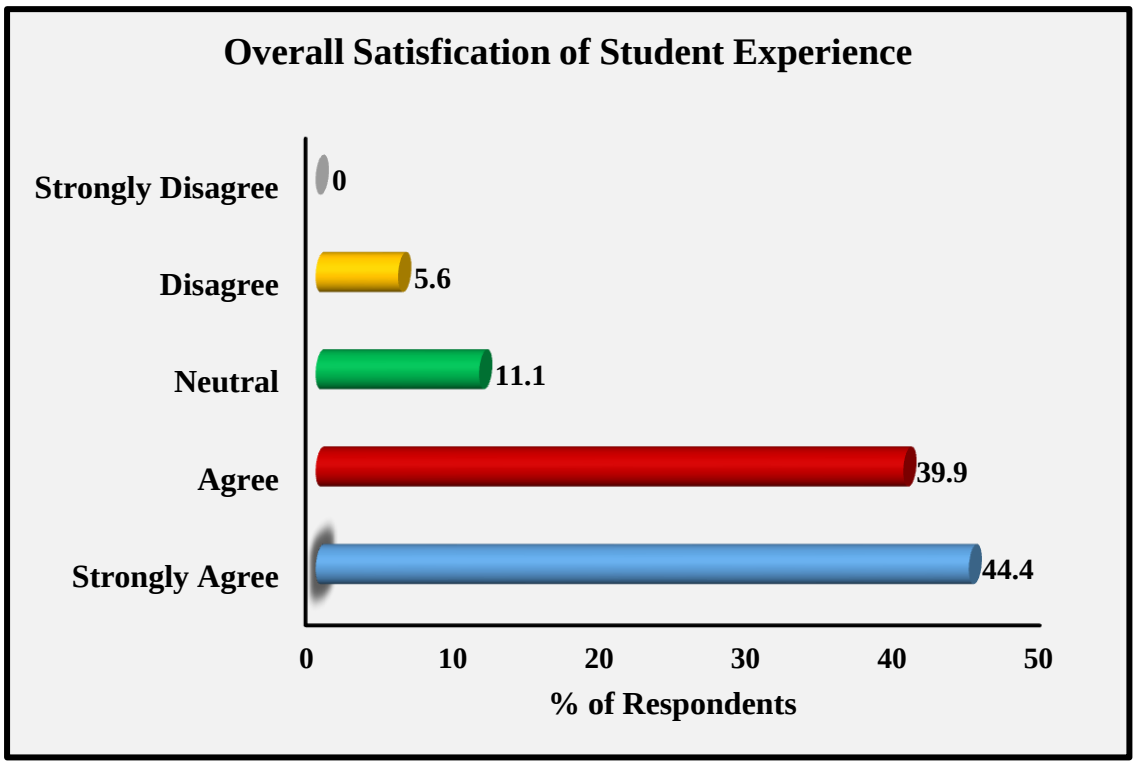
The student experience surveyed a total of 18 students. The results of part 3 (Learning and Teaching) showed that 100 % students responded to the questions of this part. Overall, 84% of responses were "Agree" and favorable toward satisfaction, 15 % of responses were "Neutral", 2 % of responses were "Disagree", and 0% had no responses.

Questions 18 and 19 yielded the largest number of “Agree” responses with 89 % of respondents agreeing that they felt an improvement in their communication skills, in addition to the ability to work effectively in groups.

Minor number of “Disagree” responses corresponds to Question 13 and 14. Almost 5.6 % of respondents disagreed with the statements indicating that fairness of faculty in treatment students.

Part 4:

Question 20 is to assess the "Overall Evaluation". The results of part 4 (Overall Evaluation) showed that 100 % students responded to the question, 83.7 % showed the satisfaction and 5% neutral where 6.3 % showed their dissatisfaction and overall it gives a satisfactory response to the student experience. The percent of respondents to this part of the student experience survey is represented in the graph below:



Part 5:

Part 5 contains 2 open ended questions asking the students about their likeness and dislikes for the program. 95 % of students responded to these questions. Most of the students stated that student experience related to medical physics major was very useful and entertain able. They liked their major because of some Instructors who were very helpful to them. Additionally, the most things that they liked is the way of teaching which affected their ability to work effectively and liked the activities because it improved their skills in the field.

Most of the students disliked the lack of both sports facilities and extracurricular activities like trips, etc. Students also commented on their needs for more workshops and training in the field. Moreover, the practical part of the program was not enough for them and expressed about their need for more practicing on the field.

Report # 5: Feedback of Exam Survey Summary in 2017-2018 Plan 33 (Abdeia Campus)

Method of Research

The exam paper survey asked students to comment on aspects of end-of-semester medical physics examinations for 2017-2018. This is a summary of feedback of responses for both laser in medicine and physics of biomaterials courses as an example to measure the student satisfaction and feedback of the exam paper. The survey included 10 questions. Most respondents took between 5 to 10 minutes to complete.

Survey respondents rated the importance of applying data using a five-point scale, ranging from 1 = low (the required item has been very bad) to 5 = high (the item required is always true). They also responded to one open ended question and provided written responses via text boxes. Refer to *Appendix B* for a copy of the survey.

However, the students taken this survey was 20 in total, only 17 of them (85%) responded to the survey. Overall feedback from respondents was positive about the final exam paper.

All respondents (100%) were satisfied that all questions provided good coverage of the units of course, that the questions were within the scope of the course design and that the examination content was accurate.

Most agreed that the instructions for sections of the exam paper were clear and appropriate, that labels on diagrams were correct and consistent with text in the exam questions and that question worded clearly.

All respondents agreed that the mark allocation for each question was appropriate and rated the overall difficulty of the examination as suitable, and a small percentage indicated that the examination was too long or that some of the questions were too hard or that the instructions of examination were unclear.

Physics of Biomaterials (403496)

However, the students taken this survey was 26 in total, only 16 of them (61.5%) responded to the survey. Overall feedback from respondents was positive about the final exam paper.

All respondents (100%) were satisfied that all questions provided good coverage of the units of course, that the questions were within the scope of the course design and that the examination content was accurate.

All respondents agreed that the instructions for sections of the exam paper were clear and appropriate, that labels on diagrams were correct and consistent with text in the exam questions and that question worded clearly.

All respondents agreed that mark allocation for each question was appropriate and rated the overall difficulty of the examination as suitable.

Head of Physics Department

الدكتور/ فهد عبد الله الهاشمي