Electronic Engineering and Communication Technology B.Sc.

Program Report

(2015 – 2016)- By law 2000

Content

1. General

1.1 Basic Information

1- **Program title:** Electronic Engineering and Communication Technology.
2- **Program type:** Single.
3- **Department offering the program:** Electronic Engineering and Communication Technology.
4- **Co-coordinator:** Prof. Dr. Mokhtar Abdel Halim.
5- **External evaluators:**
- **Prof. Moh. Abo Zahhad Abo Zaid:** Vice Dean for postgraduate studies and research - Faculty of engineering - Assiut University.

6-**Year of operation:** 2001-2002

2. Professional Information

2.1 Statistics

1- No. of students starting the program at 2015 - 2016 = 294 (students accepted in the Academy the academic year 2011 - 2012 were 1405 students with a ratio 20.92%

2- No. and percentage of students passing in each year/level/semester for the students graduated in 2016

Table (1): No. and percentage of students passing in each year/level/semester

Year		Number of students	No of passing Students	Percentage of passing students
Second	2012-2013	383	311	81.2%
Third	2013-2014	320	282	88.1%
Fourth	2014-2015	316	268	84.8%
Fifth	2015-2016	294	267	90.8%

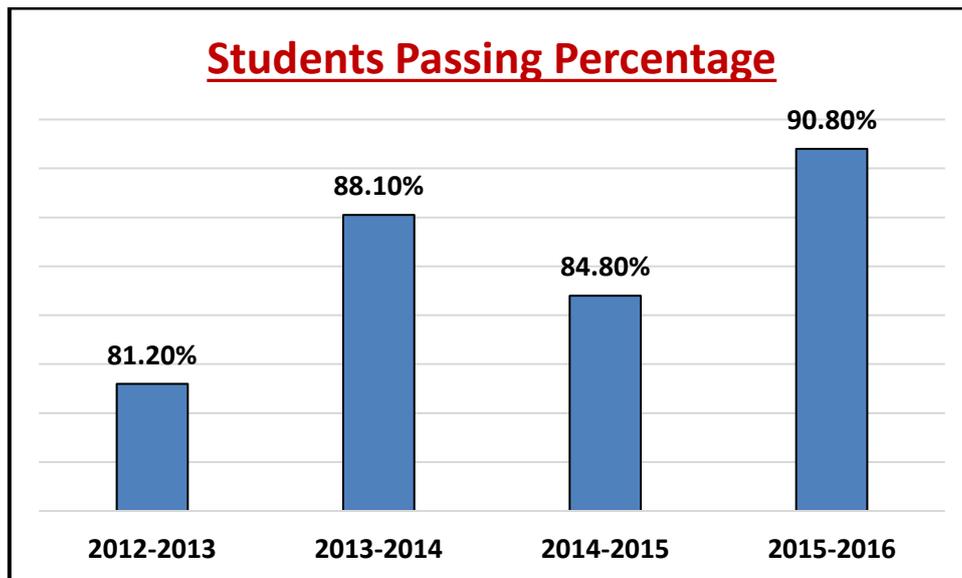**Students Passing Percentage**

Figure (1): Ratio of students (graduated in 2016) passing in each year/level/semester

3- No. of students completing the program and as a percentage of those who started:
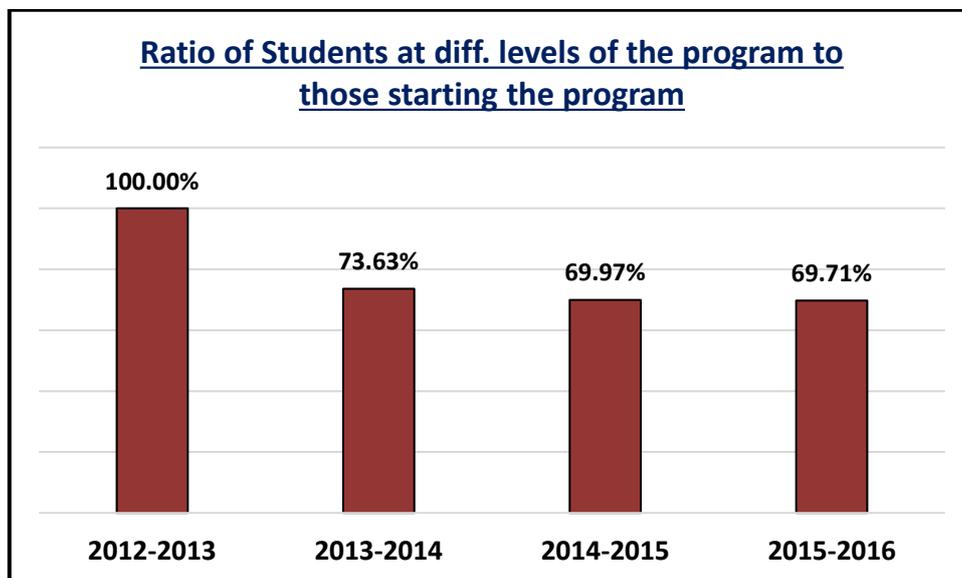267 / 383 = 69.7%

Ratio of Students at diff. levels of the program to those starting the program

Figure (2): No. of students completing the program and as a percentage of those who started

4- Grading: No. and percentage in each grade

Table (2): No. and percentage of students passing in each grade

Year	No. of Students	Excellent	V. good	Good	Suff.	Pass with Subjects	Failed
2nd year 2012-2013	383	47	83	71	19	91	72
%	100%	12.27%	21.67%	18.54%	4.96%	23.76%	18.8%
3rd year 2013-2014	320	26	64	92	37	63	38
%	100%	8.125%	20.00%	28.75%	11.56%	%19.7	11.88%
4th year 2014-2015	316	20	58	84	38	68	48
%	100%	6.33%	18.35%	26.58%	12.00%	21.5%	15.2%
5th year 2015-2016	294	18	71	106	33	39	27
%	100%	6.12%	24.15%	36.00%	11.22%	13.3%	9.2%
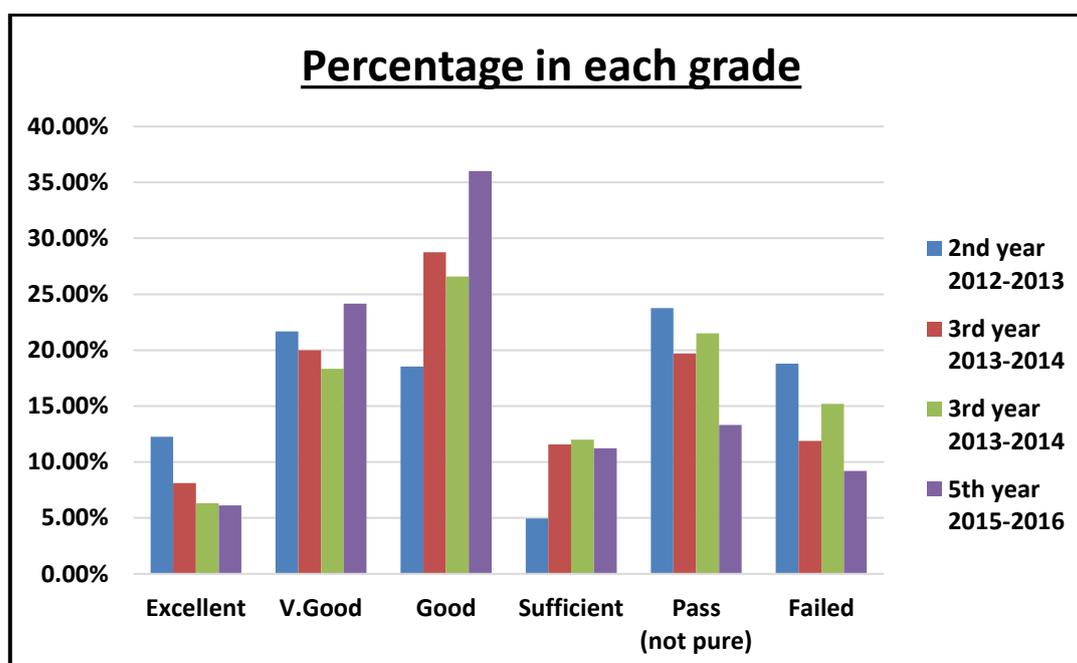
Figure (3): No. and percentage of students passing in each grade

Academic year	Number	Percentage
students joining the program on Sept 2015	294	100%
students completing the program at May 2016	228	77.55%
students completing the program at Nov 2016	30	10.2%
Total Number of students completing the program at 2016	258	87.76%

Table (3): No. and percentage of students passing in each grade -5th year

Year	Excellent		V. good		Good		Sufficient		Not Pure		failed	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
5th year 2015-2016 (294 students)	18	6.12%	71	24.15%	106	36%	33	11.22%	39	13.3%	27	9.2%

Fifth Year Grades (2015 - 2016)
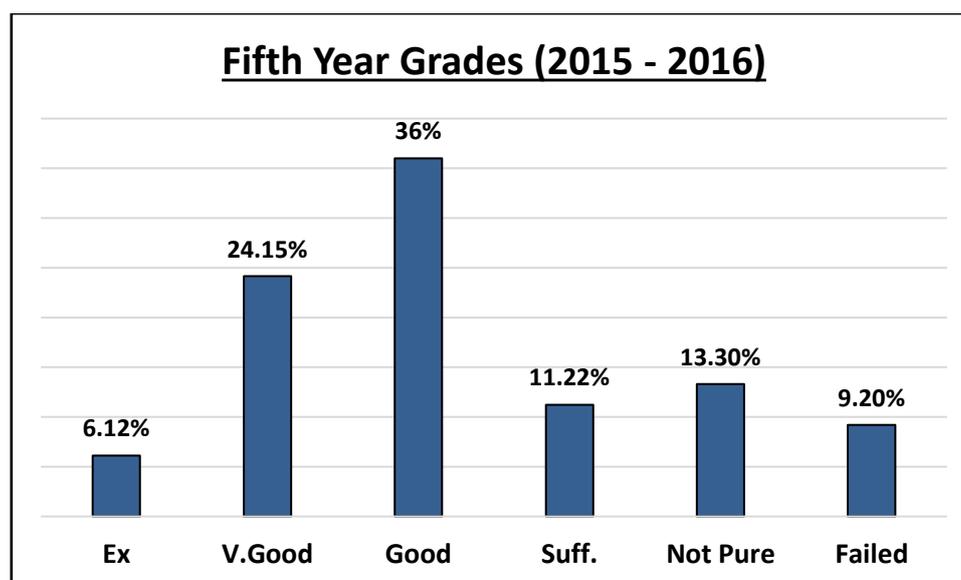
Figure (4): No. and percentage of students passing in each grade 5th year

6- First destinations of graduates:

i. Proceeded to appropriate employment %	Not available
ii Proceeded to other employment %	Not available
iii Undertaken postgraduate study %	Not available
iv. Engaged in other types of activity %	Not available
v. Unknown first destination %	Not available

2.2 Academic Standards

This program report include 4th, and 5th years courses only since we are concerning in two semesters case.

2.2.1 Achievement of program intended learning outcomes, ILO's:

5th year Communication

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General &Transferable Skills
		A	B	C	D
M561	Engineering Economy	A1, A2, A5, A10	B1, B2, B3, B4, B9, B12, B13	C1,C5,C6, C7,C9	D1, D2, D3, D8
E501	Digital Signal Processing	A2, A5, A8, A10 & A24	B1, B3, B7, B11, B14 & B15	C2, C5, C6, C12, C14 & C15	D3, D4 & D7
E511	Microwave Circuits	A15,A20	B16,B17	C15,C17,C20	D7, D9
E522	Radio & TV Engineering	A18, A24, A27, A29	B5, B15	C15, C17, C19	D3, D6, D7
E562	Communication System III	A2, A4, A17, A18	B1, B2, B3, B11, B14	C5, C6, C12, C13	D3, D6, D7
E552(d)	POWER ELECTRONICS	A14, A15, A16	B13	C1, C2	D7
B512	Laws and Regulations	A5, A6, A9, A10, A11	B3, B4, B9, B12	C1, C5	D1, D3, D7, D9
E519	Waves & Antennas II	A1, A2, A5, A21, A29	B1, B2, B7, B19	C1, C2, C5, C14, C20	D2, D6
E524	Advanced Communication Systems	A18, A26, A27	B2, B15, B18	C15, C18, C19	D3, D6, D7
E582	Radar Systems and Remote Sensing	A1,A2, A4, A18, A20, A21,A24, A28	B2,B4,B5,B15, B17	C1, C2	D1,D4,D7,D9
E572	Optoelectronics	A22, A24, A25	B2, B12, B17	C15, C18	D2, D6, D7
E599	Project	A2, A4, A5, A6, A7, A8, A9, A11, A12, A14	B1, B3, B4, B5, B7, B8, B9, B12, B13, B14, B15,	C1, C2, C3, C4, C5, C6, C7, C8, C9	D3, D4, D5, D6, D7

Regarding the previous table we observe the achievement of program intended learning outcomes to be covered by all courses taught:

Comments of external evaluator and other stakeholders

a- Comments of stakeholders:
- Specialization courses such as "Advanced Communication System", "Communication Systems I" and ""Communication Systems II" are very close to the up to date communication system technologies especially in digital wireless communication system.
- There are some programming languages such as MATLAB and C/C++ will be very useful to graduated students in various fields of communication engineering, whereas programming language such as Pascal should be replaced by more modern programming language such as: C# "C- Sharp".
- Courses related to electronics field should applied more with examples and lab. experiments related to communication engineering technologies.

b- Comments of external evaluator

Comments of two external evaluators have been mentioned before in program report 2010 / 2011.

2.3 Achievement of program aims

By reviewing the achievement of program aims covered by the achievement of the different educational aims in the courses, which vary according to the educational purpose of the course we observed totally achievement of program aims which are:

1- Providing practical professionally-supervised training programs.
2- Applying advanced teaching methods.
3- Undertaking continual development of taught curricula.
4- Maintaining balance between theoretical fundamentals and practical application.
5- Emphasizing coherence and integration between basic principles of communication system – skills of circuit design and simulation – software and hardware implementation of stages related to comm. system.
6- Broadening the scope of taught courses, enriching their content by local and international case studies and experiences.
7- Engaging graduates in realistic research work that responds to genuine community demands.
8- Promoting sustainable ecologic and cultural qualities in the built environment.

2.4 Student achievement

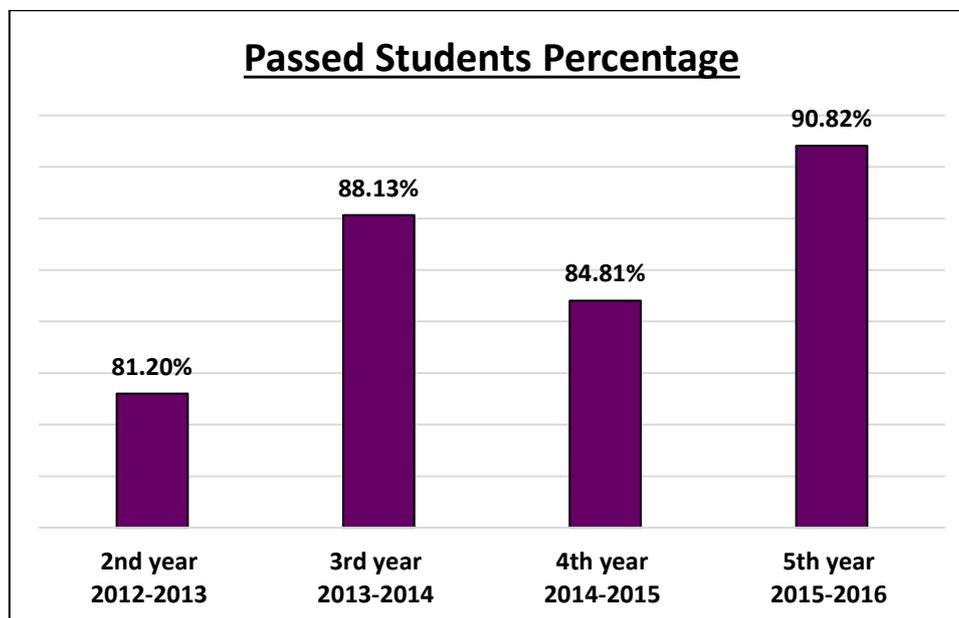Graduated Students achievement through the program

Figure (5): Graduated Students achievement through the program

After reviewing the results of students finishing the program in 2014-2015 regarding their achievements in each grade level throw different years, we can observe the increase in passing ratio for the same students each year.

Comments of stakeholders:

- Specialization courses such as "Advanced Communication System", "Communication Systems I" and ""Communication Systems II" are very close to the up to date communication system technologies especially in digital wireless communication system.
- There are some programming languages such as MATLAB and C/C++ will be very useful to graduated students in various fields of communication engineering, whereas programming language such as Pascal should be replaced by more modern programming language such as: C# "C- Sharp"
- Courses related to electronics field should applied more with examples and lab. experiments related to communication engineering technologies.

2.5 Quality of teaching and learning

Comments of external evaluator and other stakeholders including students

- The Academy adopt methods of teaching and learning based on traditional patterns of education courses that meet the goals and targets that are taught in accordance with the approved list.
- The formation of a committee of faculty members to study the distribution of subjects on the members of staff in accordance with the teaching specialty to ensure the quality of teaching and learning.
- The diversity in summer training programs according to the variables and labor market needs and requirements of the parties outside the academy.

- The development of strategies and announcements of the Department through regular weekly meetings with faculty members and teaching assistants to develop and discuss the plan of action and put forward solutions to problems that are reviewed.

- Some of the decisions are being taken corrective performance in the department as the results of self-evaluation.
- Ongoing work of the internal audit and continuous assessment tasks.

2.6 Effectiveness of student support systems
Commentary on both academic and pastoral/personal support for all students

- The department is interested in the students' support, despite of the growing numbers of students entering the department through the following:

- Divide the students of the same level into groups and the distribution of the studying schedule to optimize the use of lecture halls and drawing rooms

- Motivate outstanding students to participate in cultural activities and attending scientific conferences and by giving additional marks.

- A system was developed to solve the problems of students through the distribution of the responsibility on the faculty members to quickly resolve the problem and follow-up the complaints and to respond in a specific period.

- The periodic meeting with students' representatives to quickly solve problems of students.

- There is a schedule of final revision for the studied courses at the end of each semester to assist low and middle caliber students.

- Students are helped in the case of special circumstances such as cases of the disease, the death of a parent, injuries during an incident, by taking into account the circumstances of each case in providing the requirements of this year, especially in materials that rely on semester marks and attendance.

- Encourage students to manage, and organize cultural activities

- Establishing a database for students and save all the data and grades of the year in electronic archive for each student

2.7 Learning resources
A. No. and ratio of faculty members and their assistants to students
- Staff members and the assistants (Appendix 1 - Program Specification)
- Percentage of staff members to students : 1 : 24

B. Matching of faculty members' specialization to program needs.
- All the Staff members are Qualified and they are adapted with the program requirements. (Appendix 1 - Program Specification)

C. Availability and adequacy of program handbook
- The program specification is explained to the students attending the program through interviews with the students, in addition there are lecture notes for most of the courses available to the students.

D. Adequacy of library facilities.

- The academy scientific library is annually refurbished with the books needed for enriching the specialty according to the budget. Yet the number of books is not enough for the students.

E. Adequacy of laboratories

The department has two computer laboratories each of 60 computers.

F. Adequacy of computer facilities

- Labs are in need of increase of the instruments to cope with the increasing number of students attending the program.
- Renovation of the architecture software packages periodically.

G. Adequacy of field/practical training resources

- The department is keen on the compatibility of the summer training programs with the program specification and the requirements of the labor market. Care to provide opportunities for all students of the department with the diversity of training sites.
- It is difficult to schedule training on two months during the summer vacation for several reasons, a large number of students focus on training outside Egypt and in the month of Ramadan which come in August, where it is difficult for students to attend it.

H. Adequacy of any other program needs

None

2.8 Quality management

A. Availability of regular evaluation and revision system for the program

There is a unit for Quality Assurance in the department began its course of action by doing self-assessment to the department at the end of the academic year 2009/2010, in order to identify the strength points and to identify and treat the weaknesses (SWOT). The views of all interested parties (faculty members and their assistants, students and the administrative bodies and representatives of civil society) in the courses and the educational process have been explored, and sample of students has been taken (10%) of the total number of students the college. As for the faculty members they were asked all and for the administrative apparatus the sample (30%) of the total number has been analyzed. The results of the poll were statistically analyzed then a view of these results was discussed with the College Board to take decisions on further development.

The results of self-evaluation and quality management
Reflection of the results of self-evaluation of the department performance on quality management
Work is already underway to make some decisions for corrective overall performance of the department in light of the results of self-evaluation Examples of such decisions:

- The work of the internal audit and continuous assessment with identified tasks.
- Work is permanently and continuously to develop the capacity of faculty members.
- The department is interested in students and alumni, and follows up their proceeding in the labor market, to improve the outcomes and competitive position within the community.

Strengthening activities for Quality Management
It was possible to identify some areas for future promotion and development in the light of the results of self-evaluation of the performance of the department and of these areas.
Strengthening the quality management in the department through:

- The continued development of the courses objectives with global trends.
- Developing the skills of the administrative apparatus in the use of technology.
- Prepare an annual plan for periodic maintenance of institutional facilities.

B. Effectiveness of the system

The quality management system is effective since there are:

- Quality management regulations.
- Feedback for the program evaluation.
- Corrective actions for program flaws.

C. Effectiveness of Faculty and University laws and regulations for progression and completion

There is a quality section in the department which a subordinate from the quality center of the Academy. Its role is to monitor and assure the implementation of the quality measures in the department.

D. Effectiveness of program external evaluation system:

I- External evaluators

The department program is evaluated by two qualified external evaluators.

II- Students

The program courses, the teaching methods and the assessment methods are evaluated by the students each semester by questionnaires handed to a percentage of students for each course. As for the alumni there is a questionnaire done to a percentage of them to evaluate the whole program.

III- Other stakeholders

At the end of the academic year there is an annual meeting for the stakeholders and representatives of the civil community for the reconnaissance of their evaluation to the academic year.

E. Faculty response to student and external evaluations

All the external evaluator's comments were taken in consideration and are stated with the department response in the "Program Specification".

There is an action plan set to be implemented in the following academic year.

3. Proposals for program development
A. Program structure (units/credit-hours)

The department has submitted a proposal for credit hours system and pending approval of the application.

B. Courses, deletions and additions and modifications

The course coordinator can modify some of the contents of the curriculum without changing the major aims of the course which is approved by The Academy. This change is done by reference to the department council.

There is a variety of elective courses chosen by students within the last 4 semesters in the program.

C. Staff development requirements

The department has a plan to increase the number of staff within the next 3 years to reach the ratio 1:25 for the staff to students, and the ratio of 1:15 for the staff assistants to students.

4. Progress of previous year's action plan:

- Enhance both theoretical and practical parts in all specialization courses in order to match modifications applied to the ILOS'
- Apply more training for students that enable them to solve engineering problems using different programming languages.

5. Action plan

Action required	Person Responsible	Completion Date
Specialized training courses for all staff	Training Sector	September 2017
Complete the shortage in education facilities	Academic Administration	Academic year 2016-2017

Program Coordinator: *Prof. Dr. Mokhtar Abdel Halim.*

Signature:

Appendix 1

Annual Course Report

(2015-2016)- By law 2000

5th year Communication

Code	Course Name
M561	Engineering Economy
E501	Digital Signal Processing
E511	Microwave Circuits
E522	Radio & TV Engineering
E562	Communication System III
E552(d)	POWER ELECTRONICS
B512	Laws and Regulations
E519	Waves & Antennas II
E524	Advanced Communication Systems
E582	Radar Systems and Remote Sensing
E572	Optoelectronics
E599	Project

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Digital Signal Processing - (E501)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 1st Semester

4- Unit hours 2

Lectures 3hrs   Tutorial 2hrs   Practical 1 hrs   Total 6hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Samir Kamal

6- Course coordinator: Dr. Samir Kamal

7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid

B- Statistical Information:

No. of students attending the course: No. 298   **100%**
No. of students completing the course: No. 283   **94.97%**

Results:

	No.	%
Passed	268	94.7
Failed	15	5.3

Grading of successful students:

	No.	%
Excellent	46	16. 25
Very Good	90	31.8
Good	70	24.73
Suff.	62	21.91
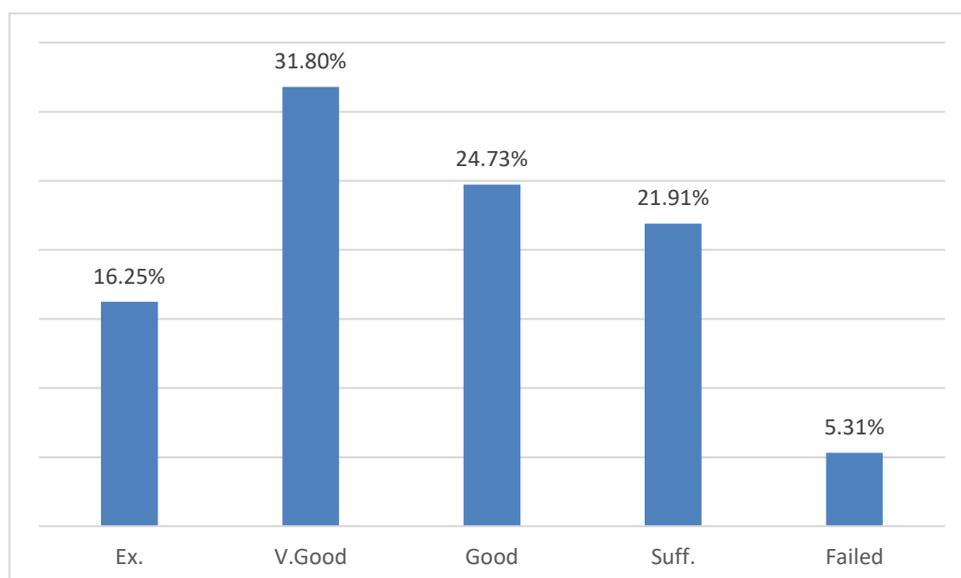
C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Signal, system and signal processing	2	1	2	
• Classification of signals	2	-	2	
• The concept of frequency in continuous-time and discrete-time signals	2	-	2	
• Analog-to-digital and digital-to-analog conversion	2	-	2	
• Fourier series (FS) and Fourier Transform (FT)	2	1	2	
• Discrete Fourier Transform (DFT) and its inverse	3	4	4	
• Computational complexity of the DFT	4	4	2	Dr. Samir Kamal
• Auto-correlation, Cross-correlation, and	4	6	4	
• Z- transform and its inverse	6	4	-	
• Properties of the Z-transform	4	-	-	
• Application of Z-transform in DSP	4	4	-	
• Design of the digital filters	-	6	2	
• Types of the digital filters and choosing between	2	-	-	
• FIR filter design	4	-	4	
• IIF filter design	4	-	4	
Total	**45**	**15**	**30**	

Percentage of the content specified:

>90 % √   **70-90 %** -   **<70%** 100%

Reasons in detail for not teaching any topic   None
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: DSP Lab.

Seminar/Workshop: None

Class activity: Numerical exercises; solution of problems by computer and data show.

Case Study: None

Other assignments/homework: weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

Written examination	60 %
Practical examination	10 %
Other assignments/class work	23 %
Mid-Term Exam	7 %
Total	**100 %**

Members of examination committee: Dr. Samir Kamal
Role of external evaluator: None

4- Facilities and teaching materials:

Totally adequate	.Yes.
Adequate to some extent	…….
Inadequate	…….

List any inadequacies: None

5- Administrative constraints
List any difficulties encountered
- None

6- Student evaluation of the course: **Response of course team**

List any criticisms	Response
Increasing no. of problems at the end of each chapter.	It will be done at 1/9/2016
Increasing of the attention to the lab notebook.	At 1/9/2017, we will be re-arrange the lab notebook after adding the MATLAB software packages experiments.

7- Comments from external evaluator(s):
External evaluator: None.

8- Course enhancement:

Progress on actions identified in the previous year's action plan: N one
Action State whether or not completed and give reasons for any none-completion   None

9- Action plan for academic year 2016 – 2017

Action required	Completion date	Person responsible
Increasing no. of problems at the end of each chapter.	1/9/2016	Dr. Samir Kamal
Increasing of the attention to the lab notebook.	1/9/2017	Dr. Samir Kamal

Course coordinator: Dr. Samir Kamal

Signature:

Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Microwaves Circuits - (E511)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 1st Semester

4- Unit hours 2

Lectures 3hrs   Tutorial 2hrs   Practical 1 hrs   Total 6hrs

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Mokhtar Abdel Halim

6- Course coordinator: Dr. Mokhtar Abdel Halim

7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid

B- Statistical Information:

No. of students attending the course: No. 298   100%
No. of students completing the course: No. 285   95.64%

Results:

	No.	%
Passed	267	93.68
Failed	18	6.31

Grading of successful students:

	No.	%
Excellent	18	6.32
Very Good	49	17.19
Good	77	27.02
Suff.	123	43.16
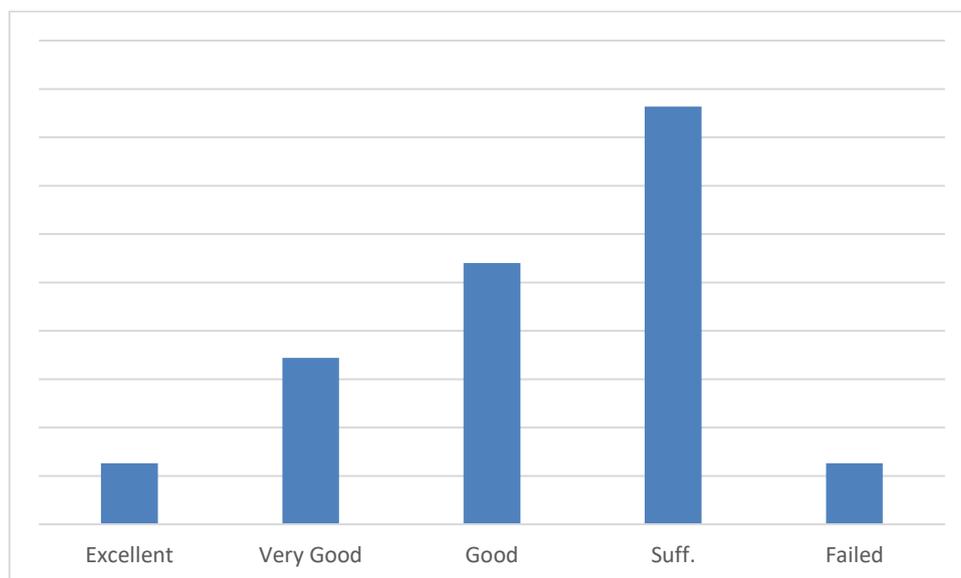
C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	
1- Microwave Resonators	3	1	2	
2- Microwave Circuits Voltage and Current	3	1	2	
3- Z-matrix and Y-matrix	3	1	2	
4- Scattering Matrix	3	1	2	
5- Power in Microwave Circuits	3	1	2	
6- Passive Microwave Devices	3	1	2	
7-Wavegide devices and termination	3	1	2	
8- Directional Couplers	3	1	2	Dr. Mokhtar Abdel Halim
9- Isolator and Circulators	3	1	2	
10- Hybrid Junctions and Micro strip circuits	3	1	2	
11- Microwave Klystrons and Magnetrons	3	1	2	
12- Microwave Semiconductors Circuits	3	1	2	
13- Negative Resistance Diodes	3	1	2	
14- Parametric Amplifiers	3	1	2	
15- Microwave Oscillators	3	1	2	
Total hours	**45**	**15**	**30**	

Percentage of the content specified: >90 % √
Reasons in detail for not teaching any topic   None
If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: Microwave Lab.

Seminar/Workshop: None

Class activity: Numerical exercises; solution of problems by computer and data show.

Case Study: None

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

Written examination	60 %
Practical examination	20 %
Other assignments/class work	13 %
Mid-Term Exam	7 %

Total 100 %
Members of examination committee: Prof. Dr. Mokhtar Abdel Halim

5- Administrative constraints
List any difficulties encountered
➢ None

6- Student evaluation of the course:
List any criticisms

-اللجوء لجعل مستوى الطالب العملى فعالا بالعمل على استدراج كل طالب بالقيام بالاعمال العملية بمفرده وليس مطلوب تصحيح الميد ترم باكثر عدالة.
-معيدين المادة دون المستوى.
-لابد من زيادة السكاشن بحيث تكون متوافقة مع المحاضرة لانه يوجد صعوبه فى فهم المادة.
-فى بعض الاحيان الجزء الذى يغطيه الدكتور فى المحاضرة يكون المعيد غير قادر على الكم المطلوب منه وبالتالى لاتغطى الجزء العملى حل المسائل بالطريقة العلمية. يجب تكثيف السكشن للطلبة ليكون قادرين على تغطية جميع المسائل المطلوبه.يجب ان يكون السكشن كل اسبوع وليس كل اسبوعين.
-زيادة السكاشن بدلا من سكشن واحد كل اسبوع.
-توافر قدر مناسب من الاجهزة فى المعمل.
-ارجو من الدكتور ان يراعى تصحيح الامتحانات بطريقة جيده وعدم اعطاء الدرجات على شكل الورقه.

7- Comments from external evaluator(s):
External evaluator: None.

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any none-completion   None

9- Action plan for academic year 2016 – 2017
Two microwave generators were added to the lab at 1/10/2016

Course coordinator: Dr. Mokhtar Abdel Halim

Signature:

Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Radio & TV Engineering - (E522)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 1st Semester

4- Unit hours 2

Lectures 4hrs   Tutorial 2hrs   Practical 1 hrs   Total 7hrs

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Saeid Baiomy.

6- Course coordinator: Prof. Dr. Saeid Baiomy.

7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid

B- Statistical Information:

No. of students attending the course: **No.** 298   **100%**
No. of students completing the course: **No.** 285   **95.64%**

Results:

	No.	%
Passed	276	96.84
Failed	9	3.16

Grading of successful students:

	No.	%
Excellent	97	34.04
Very Good	99	34.74
Good	45	15.79
Suff.	35	12.28
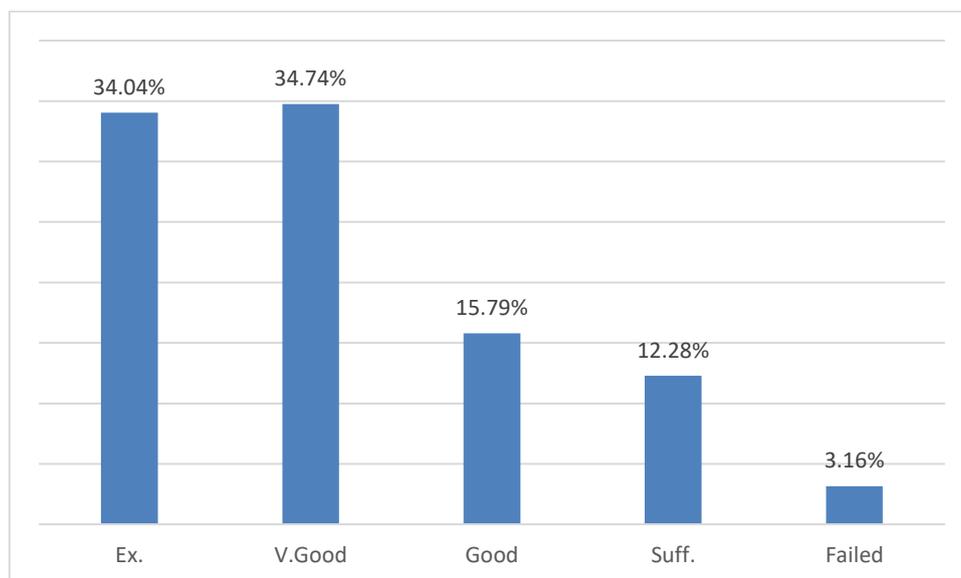
C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
• Introduction to needs for modulation	2	1	2	ى ص و

• How radio system started and developed	2	1	2
• Kinds of radio systems and comparison	4	1	2
• Radio system design fundamentals	8	1	2
• Radio circuits design	10	1	2
• Advantages of stereo system VS. mono	2	1	2
• Structure stereo signal and system.	4	1	2
• The human eye response to colors	2	1	2
• Prime colors and color mixing fundamentals	4	1	2
• Photometric measurements & color matrix	4	1	2
• TV camera and construction of color signal	4	1	2
• Scanning and synchronization	4	1	2
• TV receiver structure and analysis	6	1	2
• TV-tubes color picture demonstration	4	1	2
TOTAL	60	15	30

Percentage of the content specified:

>90 % √   **70-90 %** -   **<70%**   100%

Reasons in detail for not teaching any topic   None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Radio and TV Lab.

Seminar/Workshop: monthly seminar of radio topics

Class activity: Numerical exercises; solution of problems by computer and data show

Case Study: selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:
    None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

Written examination	60 %
Practical examination	20 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

 Members of examination committee: Prof. Dr. SaeidBaiomy.

5- Administrative constraints
    List any difficulties encountered
        ➢ Contact hours are not enough because the tutorial hour is biweekly

6- Student evaluation of the course:

      List any criticisms

-من اكتر المواد الجميله فى القسم ومن اكتر المواد اللى ممكن تفهمها ودايما المعيدين كويسين معانا اخواتنا الكبار دايما بيساعدونا وعايزينا نكون افضل والف سلامه لـ د/ سعيد بيومى

-المعيده لاتشرح القدر الكافى ٤/٣المنهج مبيتشرحش واعمال السنه غير معلنه للطلبه من المعيده والمعيده مبتتفاعلش معانا برجاء من د/ مختار رئيس القسم اعادة النظر فى اعمال السنه المعيده)ساره حسن)

-م/ علاء كفاءة جدا ربنا يكرمه، كتاب المعمل مفهوش تجارب نهائى اكثر من نص التجارب من خارج الكتاب

-المعمل ناقص تجهيزات كثيره المعيده مش بتشرحلنا كل حاجه ف المنهج ودرجات اعمال السنه غير معلنه ومنعرفش هتتحط ازاى ياريت د/ مختار يتدخل ف اعمال السنه بتاعة السكشن)م/ ساره حسن)

-كل التعليق خاص ب م/ علاء ربيع لانه حل محل الدكتور لظروف ما طريقة التعامل غير مقبوله ـ سيئ التعامل مع الطلبه غير عادل فى التعامل مع كافة الطلبه وغير عادل فى الدرجات ارجو ان يكون هناك رقابه على المعيد والدكتور فى حالة وجود شكوى من الطلاب يكون هناك من يسمعهم ويشجع الطلاب على اخذ حقهم وعدم الخوف من ان يكون طريقة التعامل بالدرجات.

7- Comments from external evaluator(s):
External evaluator: None.

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any none-completion   None

9- Action plan for academic year 2016– 2017
    Add LED and LCD systems analysis.

Course coordinator: Prof. Dr. Saeid Baiomy.

Signature:

Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Communication System III - (E562)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 1st Semester

4- Unit hours 2

Lectures 4hrs   Tutorial 2hrs   Practical 1 hrs   Total 7hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Nelly Muhammad Hussein.

6- Course coordinator: Dr. Nelly Muhammad Hussein.

7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid

B- Statistical Information:

No. of students attending the course: No. 298   **100%**
No. of students completing the course: No. 286   **95.97%**

Results:

	No.	%
Passed	280	97.9
Failed	6	2.09

Grading of successful students:

	No.	%
Excellent	139	48.6
Very Good	63	22.03
Good	43	15.03
Suff.	35	12.24
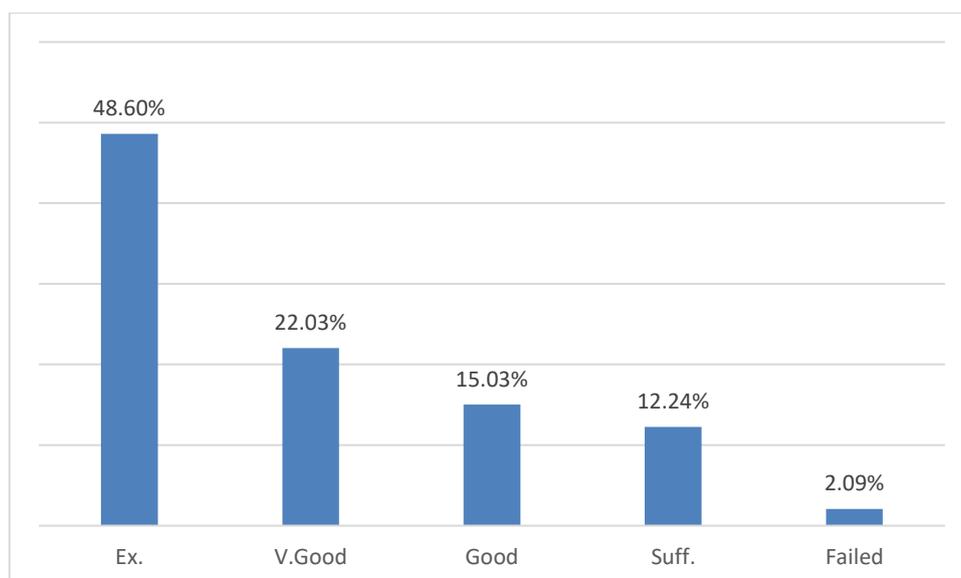
C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
1- Introduction to digital communication system stages.	4	2	2	
2- The concept of information theory.	6	2	0	
3- Types of information sources – symbols information – source entropy.	6	4	2	
4- Characteristics of source codes.	4	2	0	
5- Source coding using tree and Huffman methods.	6	4	2	
6- Introduction to channel coding concept of Hamming coding	8	4	3	Dr. Nelly Muhammad Hussein
7- Concept of cyclic coding techniques (systematic and non-	6	4	2	
8- Convolutional encoder design and analysis.	6	2	2	
9- Convolutional decoding using Viterib's algorithm.	6	2	2	
10- Discrete memory-less channel model.	4	2	0	
11- Probability of error calculation for discrete channel.	4	2	0	
Total hours	**60**	**30**	**15**	

Percentage of the content specified:

70-90 %   √

Reasons in detail for not teaching any topic   None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:
Lectures: Classical lecturing using the white board and computer supported learning
Practical training/ laboratory Computer Lab.
Seminar/Workshop: None
Class activity: Numerical exercises; solution of problems by computer and data show
Case Study: None
Other assignments/homework: Bi-weekly assignments
If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports
Written examination 90 %
Practical examination 30 %
Other assignments/class work 20 %
Mid-Term Exam 10 %
Total **150 %**

Members of examination committee: Dr. Nelly Muhammad Hussein.

5- Administrative constraints

List any difficulties encountered

➢ Students have a lot of questions related to digital communication system applications and sometimes lecture duration is not enough for all students' questions.

➢ Communications students need to have more courses in digital communications field.

6- Student evaluation of the course:

List any criticisms

-برجاء تغيير معيد السكشن، والدكتورة تضع امتحان فى مستوى الطالب مش امتحان نتسقطنا فيه كلنا

-رجاء تغيير معيد السكشن

-عدم قدرة المعيدة على الشرح الجيد للمنهج وعدم تغطية المنهج بالكامل

-قللوا المقرر على حسب الوقت المتبقى من السنه الدراسية

-تعد دكتورة المادة من افضل الدكاترة فى مادة نظم الاتصالات ونتمنى ان يكون مثلها فى الرادار، لانها قادرة على تبسيط المعلومه وطرحها على الطلبه وشرح التمارين فى تسلسل حتى يستوعب الطالب المقرر الدراسى

-محتوى المقرر جيد ولكن الكتب غير واضحة ويصعب الوصول الى المعلومه من الكتاب وامتحان الميد ترم كان ظلم وسئ والدرجة لم تكن تعبر عن مجهوى

-د/نيللى رائعة علما واخلاقا

-دكتورة نيللى اشكرك جدا على اسلوب الشرح واشكرك على تقديرك للطلاب

-عرض الافكار الصعبة على الطلبة قبل عرضها بالامتحان

-د/ نيللى زى الفل حاجه كده فله شمعة منورة، شرح ممتاز واحترام فوق الممتاز

7- Comments from external evaluator(s):

External evaluator: None.

8- Course enhancement:

Progress on actions identified in the previous year's action plan:

Insertion of two lectures at the beginning of the course to discuss principles of digital communications.

Action State whether or not completed and give reasons for any none-completion None

9- Action plan for academic year 2016 – 2017

Reduction of the theoretical part in lecture in order to give more time to exercises.

Course coordinator: Dr. Nelly Muhammad Hussein.

Signature:

Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Optoelectronic (elective course) - (E572)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 1st Semester

4- Unit hours 2

Lectures 3hrs   Tutorial 1hrs   Practical 1 hrs   Total 5hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Abdel MoneamElmahdy

6- Course coordinator: Dr. Abdel MoneamElmahdy

7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid

B- Statistical Information:

No. of students attending the course: No. 298 **100%**
No. of students completing the course: No. 282 **94.63%**

Results:

	No.	%
Passed	132	93.62
Failed	18	6.38

Grading of successful students:

	No.	%
Excellent	33	11.7
Very Good	52	18.44
Good	79	28.01
Suff.	100	35.46
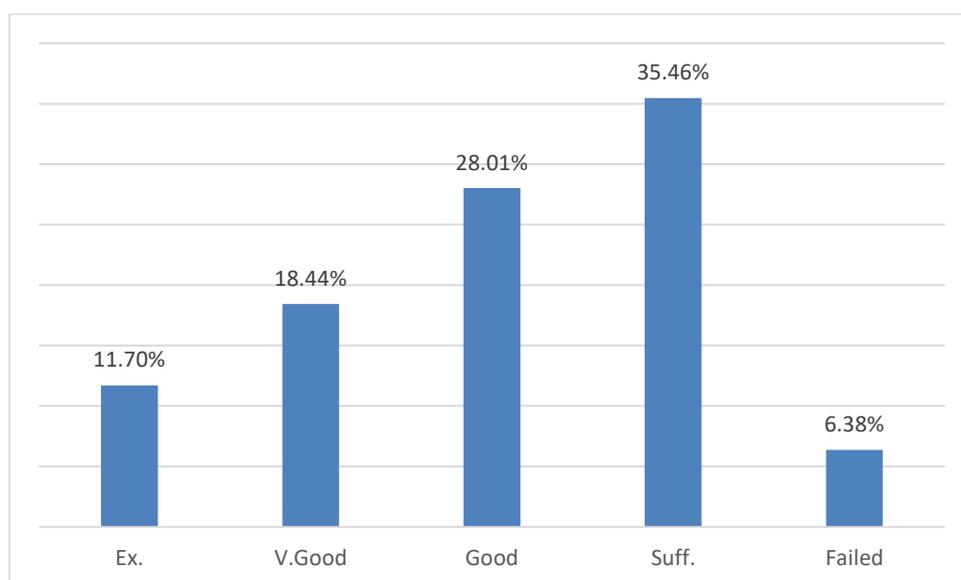
C- Professional Information:

1 – Course teaching:

Topic	Lecture	Tutorial	Practical	Lecture
• Optic & light wave fundamentals	3	-	-	Dr. Abdel MoneamElmahdy
• Integrated optic wave Guides	10	2	2	
• Optic Fiber W.G	9	3	3	
• Light sources	4	2	2	
• Modulation	4	1	1	
• Light detectors	5	2	2	
• Noise & Detection	5	3	3	
• System design	5	2	2	
TOTAL	45	15	15	

Percentage of the content specified:

70-90 %   √

Reasons in detail for not teaching any topic   None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: Optoelectronics Lab.

Seminar/Workshop: None

Class activity: Numerical exercises; solution of problems by computer

Case Study: selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:
    None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

Written examination	60 %
Practical examination	20 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

 Members of examination committee: Dr. Abdel MoneamElmahdy

5- Administrative constraints
   List any difficulties encountered
   ➢ None

6- Student evaluation of the course:
      List any criticisms

- يفضل ان يقوم بشرح هذه المادة استاذ فى العلوم الاساسية)فيزياء(مثل الدكتورة ليلى سليمان ، ان يكون الكتاب مفيد لاننا لم نستفيد منه فى شئ للاسف
- نريد من سيادتكم وضع كتاب منظم بحيث يحتوى على المنهج المقرر للدراسة وذلك للتسهيل على الطلبة فى فهم وتحضير او استيعاب المحاضرات
- نواجه عناية السادة المسئولين ان المادة سهلة جدا ولكن الدكتور لايستطيع توصيل المعلومه لنا فيؤدى الى صعوبة الفهم ياريت تغيير الدكتور حتى يتحسن مستوى الطلبة القادمين .
- الكتاب لايجوز ان اخذ كتاب ليس له علاقة بما يناقش فى المحاضرة ياريت دكتور المادة هو من يقوم بإعداد الكتاب والمسئولين تقييم الكتاب وهل هو مفيد او لا.

7- Comments from external evaluator(s):
External evaluator: None.

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any none-completion   None

9- Action plan for academic year 2016– 2017:
   - We are going to change and rearrange the academy book.
   - The subject of the course is related to an engineering application in the field of communication technology but depends upon physical basics in electronics, optics, and wave propagation.
   - The opinion of the students is trivial.

Course coordinator: Dr. Abdel Moneam Elmahdy

Signature:

Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Waves & Antennas II - (E519)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 2nd Semester

4- Unit hours 2

Lectures 3hrs   Tutorial 1hrs   Practical 2 hrs   Total 6hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Muhammad El-Wakeel

6- Course coordinator: Dr. Muhammad El-Wakeel

7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid
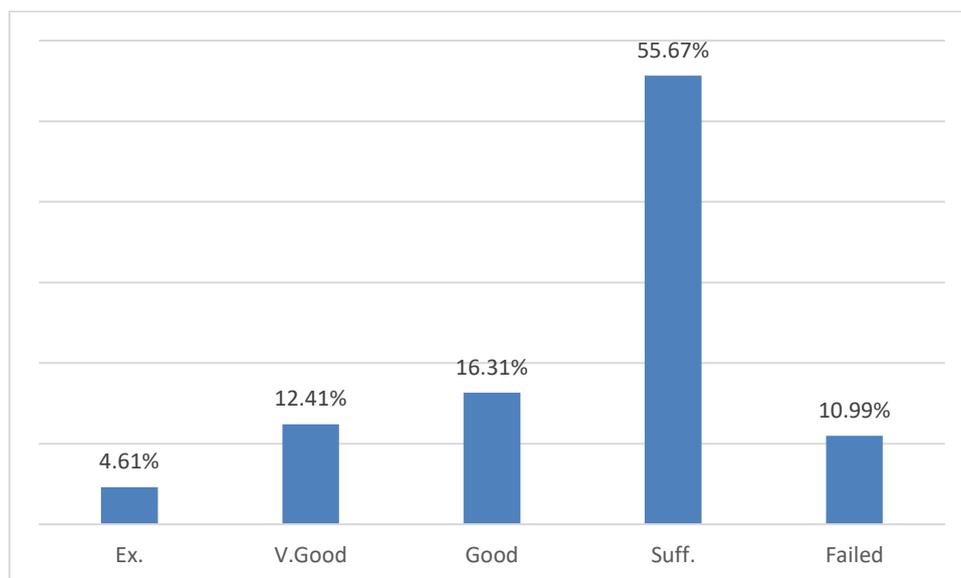
B- Statistical Information:

No. of students attending the course: No. 298   100%
No. of students completing the course: No. 282   94.63%

Results:

	No.	%
Passed	251	89.01
Failed	31	10.99

Grading of successful students:

	No.	%
Excellent	13	4.61
Very Good	35	12.41
Good	46	16.31
Suff.	157	55.67

C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer

Introduction to antennas	4	-	-	
Basic antenna parameters	8	3	-	
Measurement Techniques of antenna parameters	2	-	2	
Mathematical tools for antenna analysis and design	6	-	-	
Wire antennas:	-	-	-	
Dipole (infinitesimal, small, finite length, long)	6	3	3	
Loop antenna (circular and square)	2	1	6	
Special types of wire antennas (Helix and Yagi)	2	1	6	Dr. Muhammad El-Wakeel
Aperture antennas:	-	-	-	
Rectangular and circular aperture	4	1	1	
Microstrip antennas	2	1	4	
Horn antennas	2	2	4	
Reflector antennas	3	1	1	
Array antennas:	-	-	-	
Two elements array	2	1	1	
N-element linear array of uniform amplitude and spacing	2	1	2	
Total hours	45	15	30	

Percentage of the content specified:

70-90 %   √

Reasons in detail for not teaching any topic   None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Antenna Lab.

Seminar/Workshop: None

Class activity: Numerical exercises and solution of problems

Case Study: None

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:
    None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

Written examination   60 %

Practical examination   20 %

Other assignments/class work   10 %

Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee: Dr. Muhammad El-Wakeel

5- Administrative constraints
List any difficulties encountered
  ➢ Students level in mathematics is very weak (differentiations and integration equations and vector analysis)
  ➢ Student attend attendance is only 40% in the lecture.

6- Student evaluation of the course:
List any criticisms

- يجب العدل والمساواة فى المعمل حيث يوجد معيدين يقوموا بظلم الطلبة فى الدرجات وليست اهتمامتهم هو الفهم بل اهتمامهم الكلى بالشكل العام والمعرفة الشخصية للطلبة
- ارجو ان يكون م/ المعمل اكثر تعاونا مع الطلبة وان يكون توزيع الدرجات عادل ومتفق عليه بنظام معين مع جميع مهندسى المعمل حتى يكون التقييم عادلا لجميع الطلبة لايعتمد على الحظ مع من اصحح التقارير المطلوبة
- طريقة التصحيح فى اللاب غير واضحة بالمرة والتعامل اثناء تسليمالمقررات المطلوبة لايوجد تفاعل مع الطلبة
- المعيدين فى المعمل بيتعاملوا مع الطلبة بطريقة سيئة جدا ولايجيدون تصحيح التقارير والدرجات لاتعبر عن ادائنا ولايوجد شفافية فى اعلان درجات التقارير فى معيدين بيقولوا لطلبة درجة التقارير ومعيدين مش بيقولوا للطلبة
- المعمل التعامل داخله سيئ للغاية وطريقة وضع الدرجات غير عادلة
- تغيير المادة تغييرا جزريا لانها اصعب المواد وجميعنا نحفظها بكل تعب لانها صعبة فى الفهم لدى جميع الطلبة مع بذل جهد من استاذ المادة ولكنها صعبة ولانفهم ابدا
- تجهيزات المعمل غير مناسبة ولاتعمل
- فنى المعمل لايتعامل باحترام مع الطلبة

7- Comments from external evaluator(s):
External evaluator: None.

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any none-completion   None

9- Action plan for academic year 2016– 2017
  Comment: students level in math is law.
  Lab need: -Fund to repair some faulty equipment.
          -Book will be revised to simplify subjects.
          -Oral discussion for home assignments is must.

Course coordinator: Dr. Muhammad El-Wakeel
Signature:
Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Advanced Communication Systems - (E524)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 2nd Semester

4- Unit hours 2

Lectures 4hrs   Tutorial 1hrs   Practical 2 hrs   Total 7hrs

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Saeid Baiomy.

6- Course coordinator: Prof. Dr. Saeid Baiomy.

 7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid
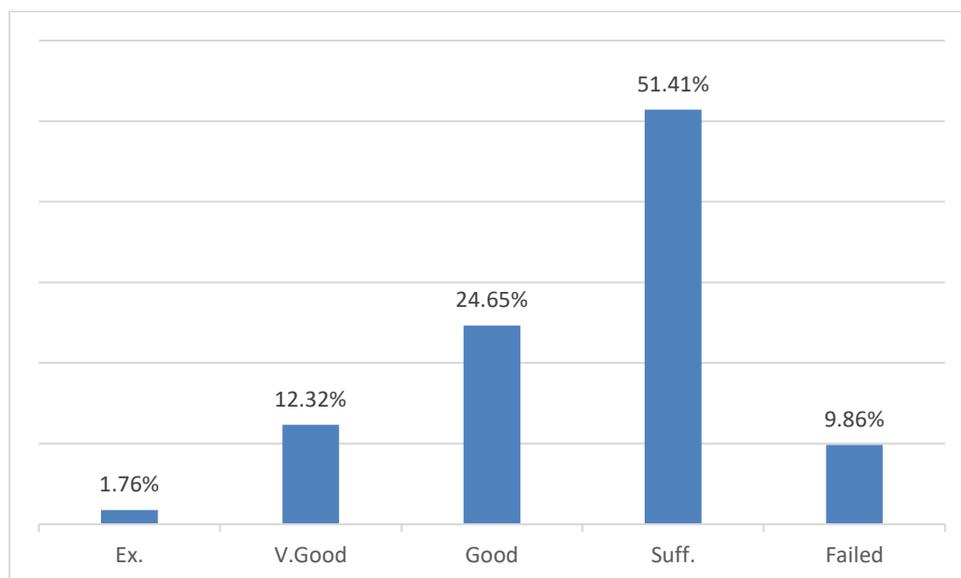
B- Statistical Information:

No. of students attending the course: No. 298   **100%**
No. of students completing the course: No. 284   **95.3%**

Results:

	No.	%
Passed	256	90.14
Failed	28	9.86

Grading of successful students:

	No.	%
Excellent	5	1.76
Very Good	35	12.32
Good	70	24.65
Suff.	146	51.41

C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Introduction to telephone sets.	2	1	1	Prof. Dr. Saeid Baiomy.
• Digital telephone and switching.	4	1	2	
• Hierarchical systems and framing.	4	1	2	
• Satellite orbits and orbital parameters	2	1	2	
• Basic transmission concepts.	2	2	2	
• Link parameter and effect of noise.	4	1	2	
• Satellite transponder and antenna.	4	1	4	
• Multiple access techniques.	8	1	2	
• Spectral efficiency and	4	1	2	
• Evaluation of mobile comm..	2	1	2	
• GSM – structure and features.	6	1	2	
• Cellular concepts and advanced.	2	1	1	
• Spread spectrum techniques.	8	1	4	
• Procedures of mobile comm..	8	1	2	
• TOTAL	60	15	30	

Percentage of the content specified:

70-90 %   √

Reasons in detail for not teaching any topic None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board

Practical training/ laboratory: Advanced Comm. Lab.

Seminar/Workshop: monthly seminar

Class activity: Numerical exercises

Case Study: selected case studies

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:
      None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams, attendance reports and evaluation of report s about selected topics.

Written examination	60 %
Practical examination	20 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee: Prof. Dr. Saeid Baiomy.

5- Administrative constraints
   List any difficulties encountered
   ➢ None

6- Student evaluation of the course:
      List any criticisms

- مادة غريبة الشكل والدكتور معقدنا وحالف يجيب امتحان مش نعرف ننحله واساسا كاننا مش واخدين فيها اى كلمة لايوجد مصدر)كتاب(للمادة يزاكر منه الطالب
- لايوجد مصدر سوى المحاضرات
- د/ احمد الديب غير قادرة على توصيل المعلومه بشكل جيد
- م/ علا يجب ان تتعامل باحترام مع الطلبة

7- Comments from external evaluator(s):
External evaluator: None.

8- Course enhancement:

Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any none-completion   None

9- Action plan for academic year 2016– 2017
   Add a part about communication networks.

Course coordinator: Prof. Dr. Saeid Baiomy

Signature:

Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: Radar Systems and Remote Sensing - (E582)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 2nd Semester

4- Unit hours 2

Lectures 4hrs   Tutorial 2hrs   Practical - hrs   Total 6hrs

5- Names of lecturers contributing to the delivery of the course:
   Prof. Dr. Magdy Tantawy - Dr. Nelly Muhammad Hussein

6- Course coordinator: Dr. Nelly Muhammad Hussein
7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid
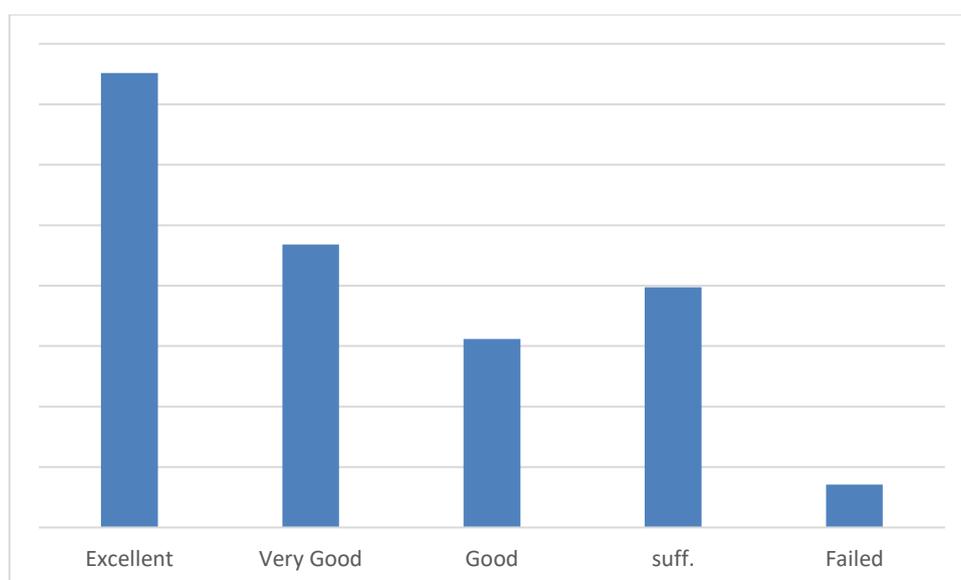
B- Statistical Information:

No. of students attending the course: No. 298   100%
No. of students completing the course: No. 282   94.63%

Results:

	No.	%
Passed	272	96.45
Failed	10	3.55

Grading of successful students:

	No.	%
Excellent	106	37.59
Very Good	66	23.4
Good	44	15.6
Suff.	56	19.86

C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Lecturer
• Introduction to Radar systems 1. Basic Radars (pulse &CW radars)& Simple form of pulse radar equation. 2. Radar system (pulse & CW) – costruction- block diagrams. 3. Application of radar systems (military & civilian).	8	4	Prof. Dr. Magdy Tantawy - Dr. Nelly Muhammad Hussein
• The Pulse Radar Range Equation 1. Receiver Noise & S/N. 2. Noise Figure & Effective Noise Temp. 3. Probability of detection and False Alarm. 4. Integration of radar echo pulses. 5. Target radar cross section fluctuation (Swerling Model). 6. De-correlation of target echos. 7. Analysis of parameters of radar equation. 8. Radar system losses. 9. Surveillance-Radar range Equation	24	14	
• Tracking Radar 1. Types of tracking Radar Systems 2. Amplitude Comparison mono-pulse. 3. Two-channel amplitude compression mono-pulse. 4. Phase-comparison mono-pulse. 5. Conical scan and sequential lobbing. 6. Tracking by division of target echo envelop.	16	4	
• Secondary Surveillance Radar: 1. Basic principles. 2. Problems with Secondary Surveillance Radar. 3. Multipath.	6	4	
• Radar Subsystems 1. Synchronizers 2. Radar transmitters 3. Radar Receivers.	2	2	
• Remote Sensing Radar	4	2	
Total	60	30	

Percentage of the content specified: 70-90 %   √

Reasons in detail for not teaching any topic   None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity: Numerical exercises and solution of problems.

Case Study: None

Other assignments/homework: Bi-weekly assignments

If teaching and learning methods were used other than those specified, list and give reasons:
None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

Written examination	70 %
Practical examination	- %
Other assignments/class work	20 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee: Dr. Nelly Muhammad Hussein

5- Administrative constraints
   List any difficulties encountered
   ➢ Academic year was reduced by 2 weeks as a result of Ramadan month closing resulting in lecture compression with topics

6- Student evaluation of the course:
      List any criticisms

   • د/نيلى ممتازة فى الشرح والتعامل مع الطلبة محترم

7- Comments from external evaluator(s):
   External evaluator: None.

8- Course enhancement:
Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any none-completion   None

9- Action plan for academic year 2016 – 2017
  - Reduction of the theoretical part in lecture in order to give more time to exercises.
  - Modify the course to suit the credit hours' program starting at academic year 2016/ 2017

Course coordinator: Dr. Nelly Muhammad Hussein

Signature:

Date: August 2016

Annual Course Report
(Academic Year 2015-2016)

A- Basic Information:

1- Title and code: 5th Year Project - (E599)

2- Program(s) on which this course is given: Electronic Engineering & Comm. Tech. Dpt.

3- Year/Level of program: Fifth year / 2nd Semester

4- Unit hours 2

Lectures 1hrs   Tutorial 1hrs   Practical 3 hrs   Total 5hrs

5- Names of lecturers contributing to the delivery of the course:

Projects distributed among the teaching Staff

6- Course coordinator: Projects distributed among the teaching Staff

7- External evaluator: Prof. Moh. Abo Zahhad Abo Zaid
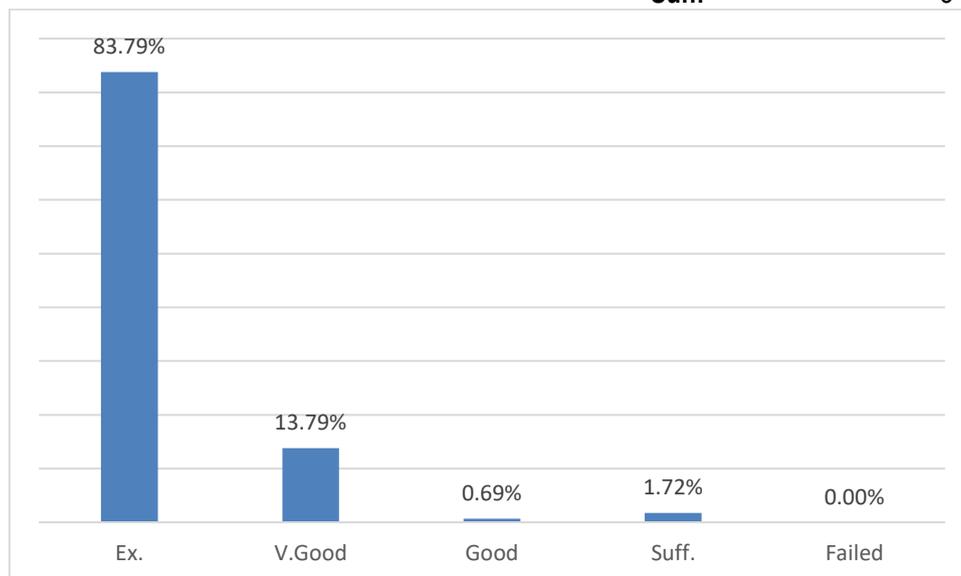
B- Statistical Information:

No. of students attending the course: No. 298   **100%**
No. of students completing the course: No. 290   **97.32%**

Results:

	No.	%
Passed	290	100
Failed	0	0

Grading of successful students:

	No.	%
Excellent	243	83.79
Very Good	40	13.79
Good	2	0.69
Suff.	5	1.72

C- Professional Information:

1 – Course teaching:

Topic	Lecture Hours	Tutorial hours	Practice hours	Lecturer
Project Background	6			
Project Activities	10			
Practical implementation		10	20	Projects distributed among the teaching Staff
Production of the final model		10	20	
Testing and correcting output		10	20	
Preparation of the presentation	10			
Total hours	**26**	**30**	**60**	

Percentage of the content specified: **>90 %**   √   **70-90 %**   -   **<70%**   100%

Reasons in detail for not teaching any topic   None

If any topics were taught which are not specified, give reasons in detail None

2- Teaching and learning methods:

Lectures: Classical lecturing using the white board and computer supported learning

Practical training/ laboratory: Project Labs.

Seminar/Workshop: weekly

Class activity: A monthly discussion of what is given in the previous weeks

Case Study: None

Other assignments/homework: monthly homework

If teaching and learning methods were used other than those specified, list and give reasons:
   None

3- Student assessment: Through Quizzes, oral participation in class, midterm exams and attendance reports

   Attendance   25

   Instructor Evaluation   25

   Practical exam/report   25

   Discussion   25

   Summer training   50

   Total   **150**

   Members of examination committee: Projects distributed among the teaching Staff

5- Administrative constraints

   List any difficulties encountered None

6- Student evaluation of the course: **Response of course team**

   List any criticisms: None

7- Comments of external evaluator:

المقرر به عدد كبيرمن المخرجات

8- Response to external evaluator comments:

المقرر يتناول جميع التخصصات بالقسم لتنوع موضوع المشروع

9- Course enhancement:
Progress on actions identified in the previous year's action plan: None
Action State whether or not completed and give reasons for any none-completion None

10- Action plan for academic year 2016 – 2017

Actions required	Completion date	Person responsible
Data show must to graduation projects	20/ 8 /2016	teaching Staff

Course coordinator: Projects distributed among the teaching Staff

Signature:

Date: August 2016