Electronic Engineering and Communication Technology B.Sc.

Program Report

(2014 – 2015)- 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 2014-2015 = 152 (students accepted in the Academy the academic year 2010-2011 were 560 students with a ratio 27.14%

2- Ratio of students attending the program in 2014-2015 to those of accepted in the Academy the academic year (2011-2012) = 152 / 226 = 67.26%

3- No. and percentage of students passing in each year/level/semester for the students graduated in 2015

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	2011-2012	226	128	56.64%
Third	2012-2013	161	109	67.7%
Fourth	2013-2014	155	111	71.6%
Fifth	2014-2015	152	129	84.87%

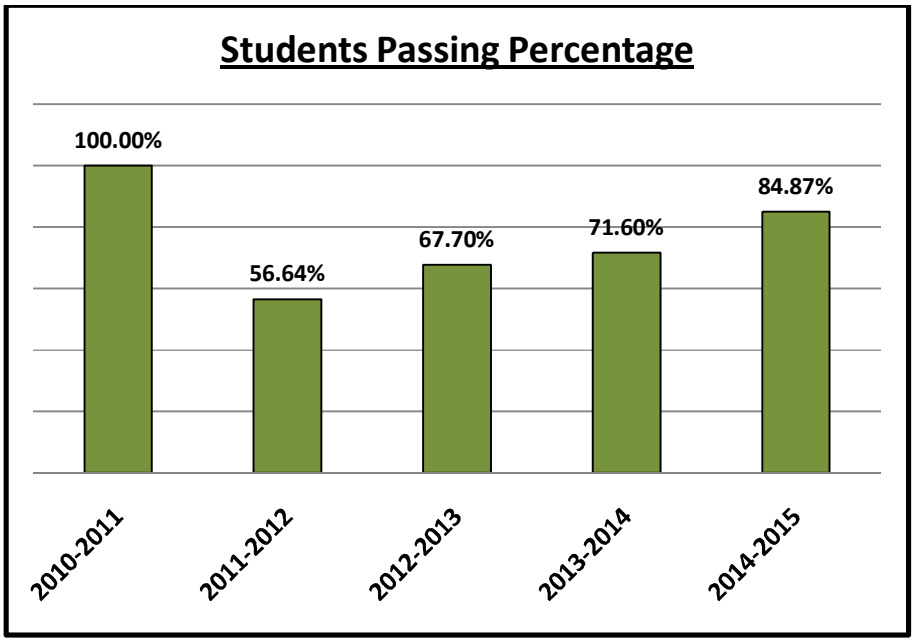


Figure (1): Ratio of students (graduated in 2015) passing in each year/level/semester

4- No. of students completing the program and as a percentage of those who started:
326 / 508 = 64.17%

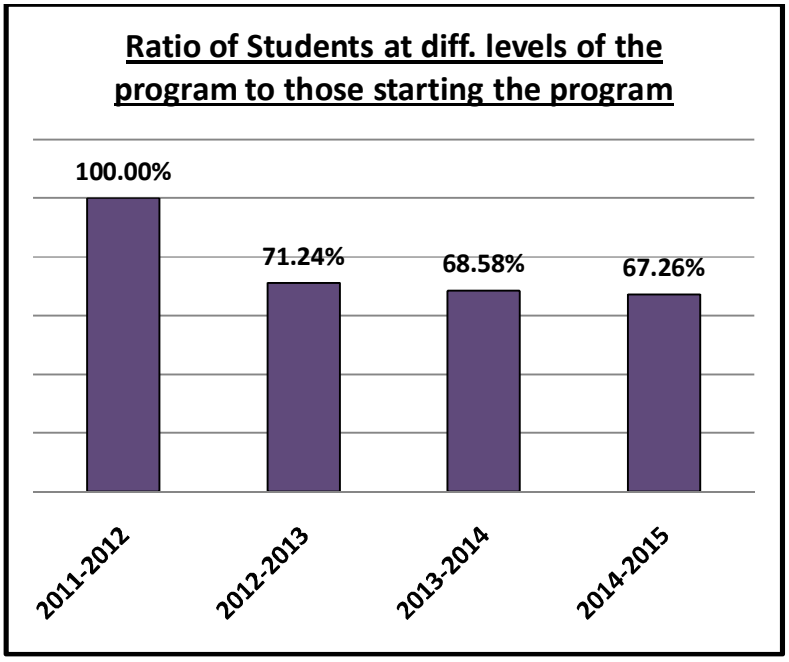


Figure (2): No. of students completing the program and as a percentage of those who started

5- 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 2011-2012	226	15	14	21	19	59	98
%	100%	6.64%	6.19%	9.29%	8.4%	26%	43.36%
3rd year 2012-2013	161	6	16	20	14	53	52
%	100%	4.05%	10.8%	13.5%	9.5%	35.8%	32.3%
4th year 2013-2014	155	7	16	18	28	42	44
%	100%	4.24%	9.7%	11.6%	10.9%	27.1%	28.4%
5th year 2014-2015	152	7	17	27	56	22	23
%	100%	6.4%	11.18%	17.76%	36.68%	14.47%	15.13%

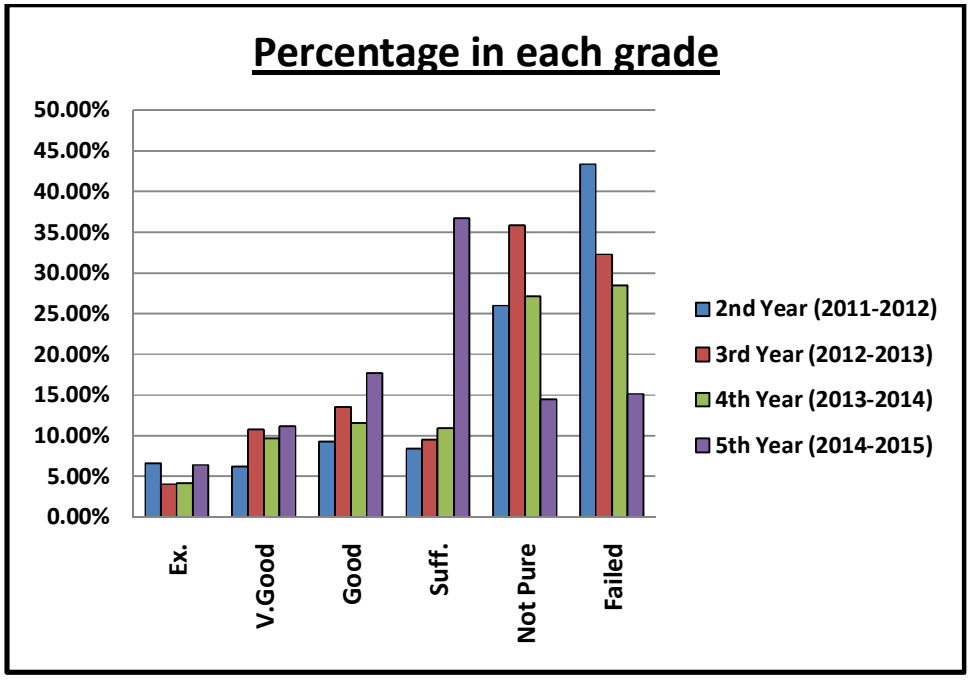


Figure (3): No. and percentage of students passing in each grade

Academic year	Number	Percentage
students joining the program on Sept 2014	152	100%
students completing the program at May 2014	107	70.4%
students completing the program at Nov 2014	43	28.3%
Total Number of students completing the program at 2014	147	96.7%

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 2014-2015 (152 students)	7	4.6%	17	11.18%	27	17.76%	56	36.68%	22	14.47%	23	15.13%

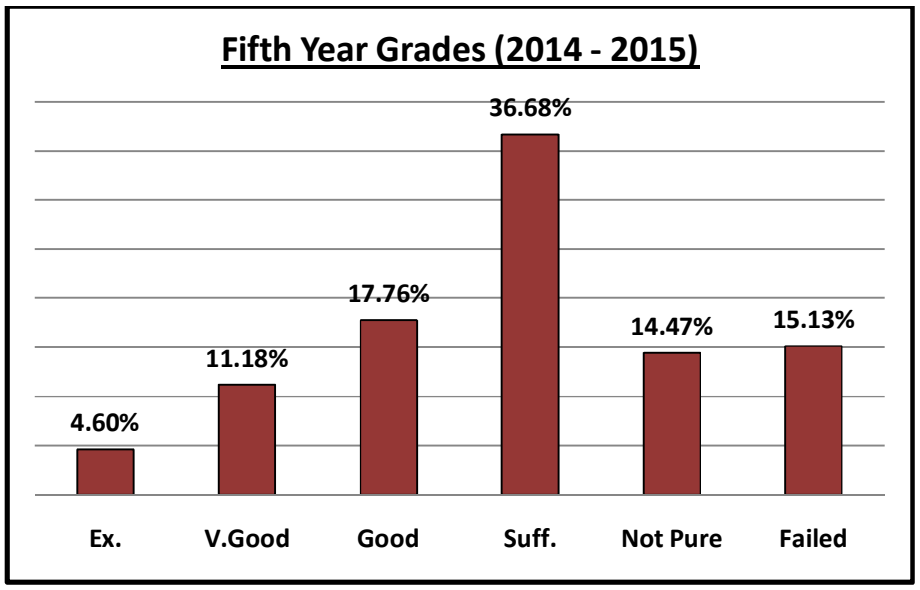


Figure (4): No. and percentage of students passing in each grade 5th year

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:

4th year Communication

Code	Course Name	Knowledge & Understanding	Intellectual Skills	Practical & Professional Skills	General &Transferable Skills
		A	B	C	D
B411	Mathematics IV	A1, A3, A5	B1, B2, B3, B4, B7	C1, C13	D1, D3, D7
E401	Design of Electronic Circuits	A1, A2, A4,A5,A8, A14, A15	B2, B3, B5, B6, B19	C2, C3, C12, C14, C15, C18, C20	D1, D2, D3, D5, D6, D7, D8
E421	Microprocessors I	A4, A5, A9, A14, A15, A16, A18	B1, B2, B3, B4, B5, B6, B9, B11, B12, B13, B16, B17	C5, C6, C12, C14, C15	D3, D5, D7, D9
E442	Communication Systems II	A18, A24, A27	B15, B19	C19, C20	D3, D6, D7
E431	Computer Organization	A1, A2,,A3, A 9, A13, A16	B1,B2, B3,B4,B12,B14	C2, C3	D1, D3, D4, D5,D7, D9
B401	Environments Technology	A9, A10	B4, B9, B12	C1, C13	D1, D3, D7, D9
E412	Information Systems	A1, A2,A3,A7,,A8, A 9, A12, A18, A19,A20	B1,B2, B3,B4,B12,B14 ,B18.B19	C12	D1, D3, D4, D5,D6,D7, D9
E441	Waves & Antennas I	A20,A21	B15,B16,B18	C17,C20	D6, D9
E402	Large Integrated Systems	A5, A8, A10, A12, A14, A15, A23	B1, B3, B9, B12	C1, C2, C3, C5, C9, C12, C15, C18	D3, D4, D7
E422	Microprocessors II	A4, A5, A9, A14, A15, A16, A18	B1, B2, B3, B4, B5, B6, B9, B11, B12, B13, B16, B17	C5, C6, C12, C14, C15	D3, D5, D7, D9
E432	Electronic Measurements	A5,A10,A15	B2, B3 ,B12	C3, C12 , C15, C20	D4 ,D6 ,D7
B412	Business Management	A4, A5, A7, A8, A10, A12	B7	C1, C5	D1, D2, D3,D7, D8, D9
E400	Summer Training	A8, A10, A12, A17, A23	B3, B8, B13	C8, C9, C11, C12, C15, C17	D3, D4, D6

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

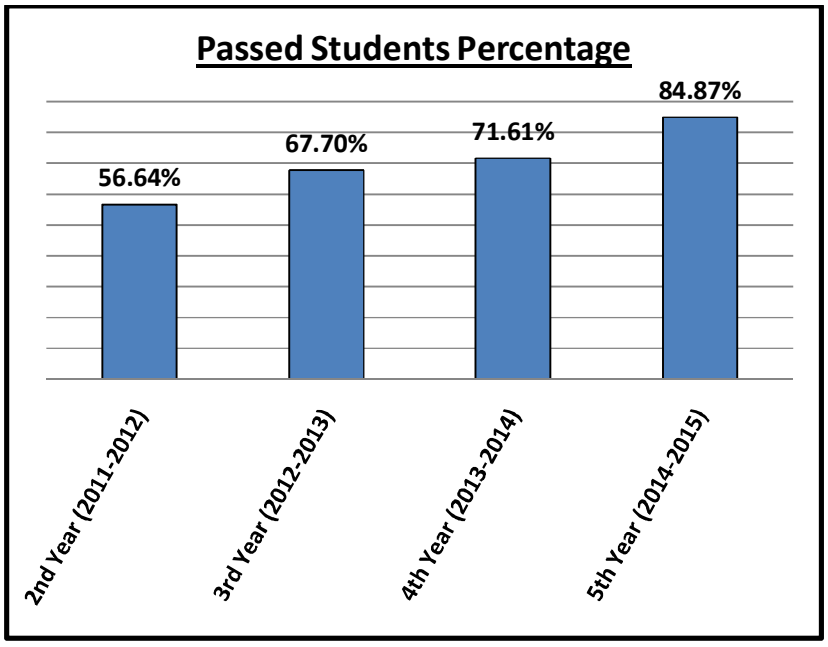


Figure (5): Graduated Students achievement through the program

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 centre 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 2016
Complete the shortage in education facilities	Academic Administration	Academic year 2015-2016

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

Signature:

Appendix 1

Annual Course Report

2014-2015- By law 2000

4th year Communication

Code	Course Name
B411	Mathematics IV
E401	Design of Electronic Circuits
E421	Microprocessors I
E442	Communication Systems II
E431	Computer Organization
B401	Environments Technology
E412	Information Systems
E441	Waves & Antennas I
E402	Large Integrated Systems
E422	Microprocessors II
E432	Electronic Measurements
B412	Business Management
E400	Summer Training

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Large Scale Integrated Systems - (E402)

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

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

4- Unit hours 2

Lectures 3 hrs Tutorial 2hrs Practical 2 hrs Total 7hrs

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.** 329 **100%**

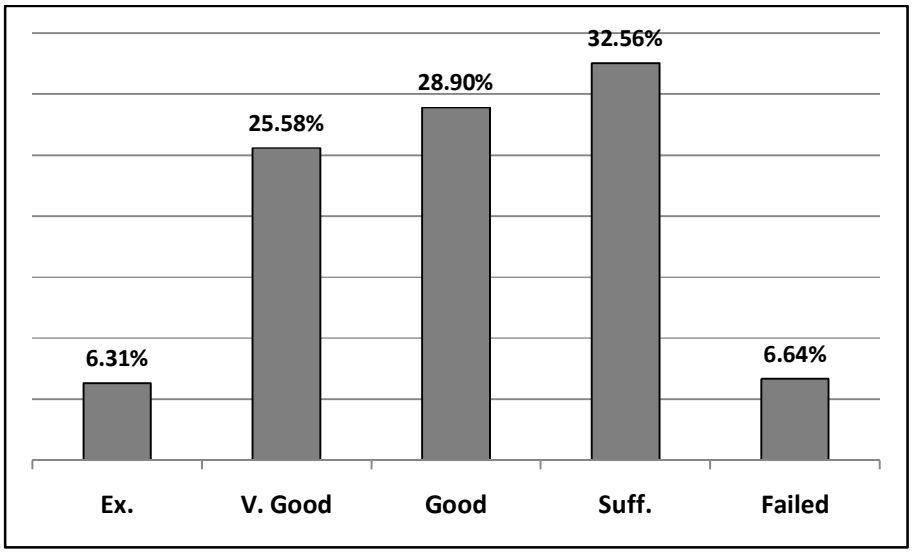
No. of students completing the course: **No.** 301 **91.49%**

Results:

	No.	%
Passed	281	93.4
Failed	20	6.6

Grading of successful students:

	No.	%
Excellent	19	6.3
Very Good	77	25.6
Good	87	28.9
Suff.	98	32.6



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
. Introduction and VLSI terminologies	3	2	2	Dr. Samir Kamal
. Introduction to CMOS circuits	-	6	6	
. MOS transistors switches	2	-	-	
. CMOS Logic	4	-	-	
. Circuit and system representations	2	-	8	
. MOS transistor theory	-	8	-	
. n and pMOS enhancement transistor	3	-	-	
. MOS device design equations	4	-	-	
. Small signal AC characteristics	2	-	-	
. The complementary CMOS inverter-DC	4	-	-	
. CMOS processing technology	-	6	8	
. Basic CMOS technology	3	-	-	
. CMOS process enhancements	2	-	-	
. Layout design rules	4	-	-	
.Circuit characterization and performance estimation	12	8	6	
Total hours	**45**	**30**	**30**	

Percentage of the content specified:

>90 % [ ] **70-90 %** [√] **<70%** [ ]

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:

- VLSI Circuit Design & Performance Measurements in Lab using different software computer Packages. Lab Project.

Seminar/Workshop: None

Class activity:

- Numerical Exercises.
- Assignments & Homework

Case Study: None

Other assignments/homework: 4-Assignments through the term

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. Samir Kamal - Dr. Hany Tawfik

5- Administrative constraints

List any difficulties encountered

- None

6- Student evaluation of the course:

List any criticisms	Response of course team
It is recommended to announce the points of year work evaluation before the final written exam.	Currently, the year work evaluation declared before the final written exam at department declaration board .

7- External Reviewer Comments:

المقرر به عدد كبيرمن مخرجات التعلم

8- Response to external reviewer comments:

تم تخفيض مخرجات التعلم للمقرر لتصبح 21 مخرج

9- Course enhancement:

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

Actions required	Planned Completion date	Accomplishment
None	None	None

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

9- Action plan for academic year 2015 – 2016

Actions required	Completion date	Person responsible
None	None	None

Course coordinator: Dr. Samir Kamal

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Business Management - (B412)

2- Program(s) on which this course is given:

- Electronic Engineering and Communication Technology BSc Program
- Computer Engineering and Information Technology BSc Program

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

4- Unit hours 2

Lectures 3 hrs Tutorial -hrs Practical - hrs Total 3hrs

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

6- Course coordinator: Dr.Shimaa Lotfy

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

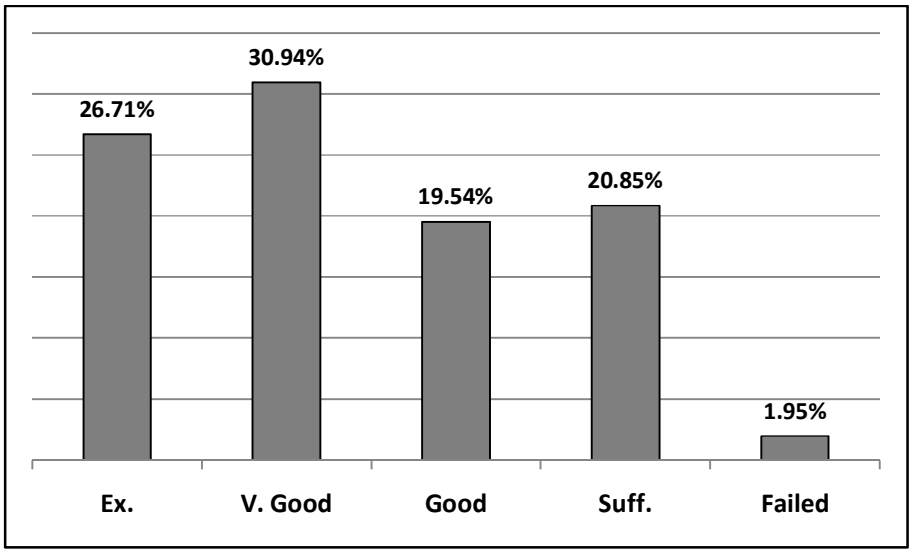
No. of students completing the course: **No.** 307 **93.313%**

Results:

	No.	%
Passed	301	98
Failed	6	2.0

Grading of successful students:

	No.	%
Excellent	82	26.7
Very Good	95	30.9
Good	60	19.5
Suff.	64	20.8



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Lecturer
• Interdiction to Management and organizations	7	Dr.Shimaa Lotfy
• Today Management current trends and issues.	7	
• Organizational culture and Environment: Constraints.	7	
• Decision making- the Essence of the manager's job	5	
• International Business an overview	13	
• Strategic Management	3	
• Final Revision	3	
Total hours	**45**	

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: None

Seminar/Workshop: None

Class activity:

A monthly discussion of what is given in the previous weeks.

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 oral participation in class, and attendance reports

Written examination	70 %
Practical examination	- %
Other assignments/class work	30 %
Total	**100 %**

Members of examination committee Dr.ShimaaLotfy

Role of external evaluator None

5- Administrative constraints

List any difficulties encountered

- None

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

List any criticisms

None None

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 2015 – 2016

Actions required	Completion date	Person responsible
We will add a case study about any organization management.		

Course coordinator: Dr. Shimaa Lotfy

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Environments Technology - (B401)

2- Program(s) on which this course is given:

- Electronic Engineering and Communication Technology BSc Program
- Computer Engineering and Information Technology BSc Program

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

4- Unit hours 2

Lectures 3 hrs Tutorial -hrs Practical - hrs Total 3hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Shimaa Nabih

6- Course coordinator: Dr. Shimaa Nabih

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

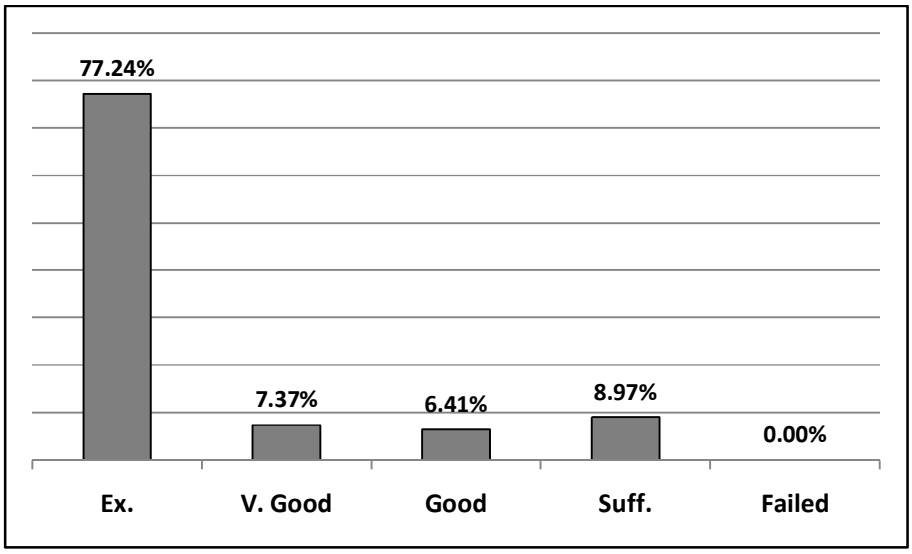
No. of students completing the course: **No.** 312 **94.83%**

Results:

	No.	%
Passed	312	100.0
Failed	0.0	0.0

Grading of successful students:

	No.	%
Excellent	241	77.2
Very Good	23	7.4
Good	20	6.4
Suff.	28	9.0



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Lecturer
• Population Growth and the Environment	5	Dr. Shimaa Nabih
• Energy	7	
• Technology Transfer	6	
• Air Pollution	8	
• Water Pollution	4	
• Noise Pollution	6	
• Environmental Impact Assessment and the Egypt law No.4 of 1994 on the Environment.	6	
• Final Revision	3	
Total hours	**45**	

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: None

Seminar/Workshop: None

Class activity:

A monthly discussion of what is given in the previous weeks.

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	10 %
Mid-Term Exam	20 %
Total	**100 %**

Members of examination committee Dr. ShimaaNabih

5- Administrative constraints

List any difficulties encountered

- None

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

List any criticisms

ارجو شرح الدكتور للمادة شرحا مبسطا كاملا

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 2015 – 2016

We will change some topics to agree with students specializations

Course coordinator: Dr. Shimaa Nabih

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Communication Systems II - (E442)

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

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

4- Unit hours 2

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

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Adel S. El-Sherif

6- Course coordinator: Prof. Dr. Adel S. El-Sherif

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

B- Statistical Information

No. of students attending the course: **No.** 329 **100%**

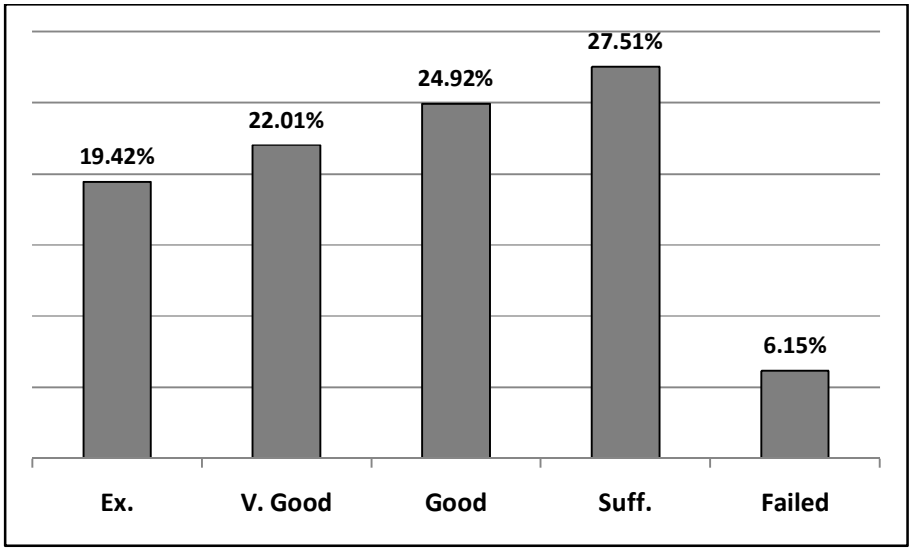
No. of students completing the course: **No.** 309 **93.92%**

Results:

	No.	%
Passed	290	93.9
Failed	19	6.1

Grading of successful students:

	No.	%
Excellent	60	19.4
Very Good	68	22.0
Good	77	24.9
Suff.	85	27.5



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
1-Introduction to pulse & digital communication	4	2	1	Prof. Dr. Adel S. El-Sherif
2-Typs of pulse modulation	4	2	1	
3-Analog pulse modulation	4	2	1	
4-Digital pulse modulation	4	2	1	
5- Sampling Theory	4	2	1	
6-Standard pulse code Mod. &Modified types of digital pulse Modulation	4	2	1	
7- Delta &Delta –segma differential pulse code modulation	4	2	1	
8- Introduction to digital modulation	4	2	1	
9- Digital Transmission & Digital Radio communication	4	2	1	
10- FSK Mod. &PSK Mod.	4	2	1	
11- Multi phase PSK Mod & Carrier Recovery & clock	4	2	1	
12- Random noises	4	2	1	
13- Analog & Digital Comm. System behavior in noise	4	2	1	
14- Analog & Digital Comm. System	4	2	1	
15- Analog & Digital Comm. System behavior in noise	4	2	1	
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

Practical training/ laboratory: Advanced Comm. Lab.

Seminar/Workshop: None

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

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 Prof. Dr. Adel S. El-Sherif

5- Administrative constraints

List any difficulties encountered

The course contains a lot of electronic circuits in both analog modulation and demodulation processes which require focusing on electronic circuit basics.

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

List any criticisms

- قد استفدت بما يكفي من المادة وانها حتى الان هذه هي المادة اللي استفدت منها ولكن كنت استفيد كثيرا من السكشن والمعمل وكان مدى استفادة الدكتور ليست كثيرة ولكن الدكتور لم يقصر معنا ويبذل اقصى جهده معنا
- لا نستطيع الفهم من الدكتور لانة يعطي كمية كبيرة من المنهج مع عدم فهمنا منه كما ان السكاشن قليلة جدا ١:٤ بالنسبة للمحاضرات وهذا يجعلنا لا نستطيع للاستفادة من المنهج كما انه يشرح انجليزي كاه حتى الروابط انجليزي

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 2015 – 2016

Reduce number of lectures taken for pulse modulation part in order to have more enough time for last chapter explanation which is considered very important in modern communication application.

Course coordinator: Prof. Dr. Adel S. El-Sherif

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Microprocessors I - (E421)

2- Program(s) on which this course is given:

- Electronic Engineering and Communication Technology BSc Program
- Computer Engineering and Information Technology BSc Program

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

4- Unit hours 2

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

5- Names of lecturers contributing to the delivery of the course: Dr. Eng. Assem Badr Eldin

6- Course coordinator: Dr. Eng. Assem Badr Eldin

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

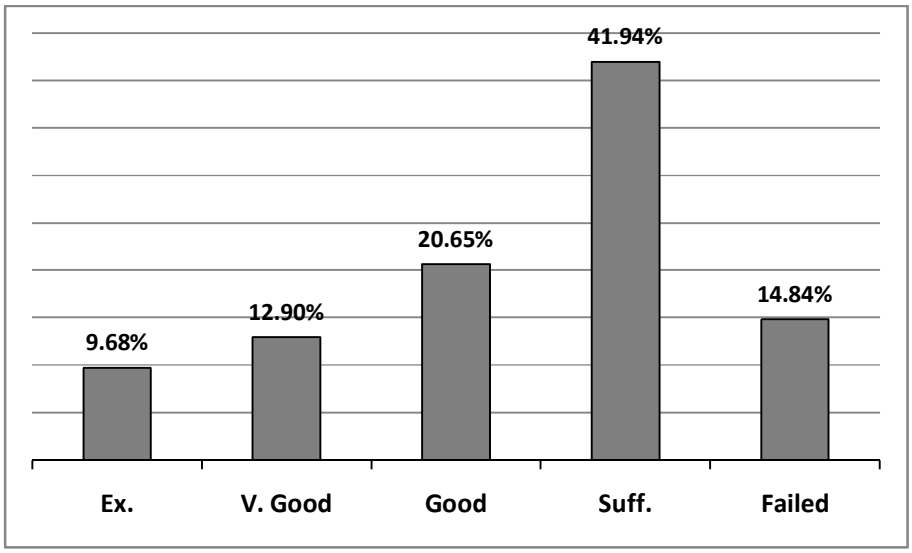
No. of students completing the course: **No.** 310 **94.23%**

Results:

	No.	%
Passed	264	85.2
Failed	46	14.8

Grading of successful students:

	No.	%
Excellent	30	9.7
Very Good	40	12.9
Good	64	20.6
Suff.	130	41.9



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
➢ The architecture of Intel microprocessor 8086.	3	2	1	Dr. Eng. Assem Badr Eldin
➢ Assembly instructions for 8086.	12	8	5	
➢ The memory segmentation and effective addresses for	6	4	1	
➢ The instruction formats for 8086.	3	2	2	
➢ The addressing modes for 8086	4	3	2	
➢ The serial and parallel communications with 8086.	5	3	1	
➢ The interface with external memories and PPI.	6	4	1	
➢ The interface with input units (such as sensors, keypad	3	2	1	
➢ The interface with output units (such as motors, monitors	3	2	1	
Total hours	45	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

Practical training/ laboratory: Micro-processor Lab.

Seminar/Workshop: None

Class activity:

A monthly discussion of what is given in the previous weeks.

Case Study: Control stepper motor based on 8086

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. Eng. Assem Badr Eldin

4- Administrative constraints

List any difficulties encountered

- Microprocessor lab needs more kits to match high students number per section.

5- Student evaluation of the course:

List any criticisms

- دكتور عاصم لم يتيح للطلبة السؤال واذا حد سألة عن اي حاجة لا يتحدث بالكثير وامتحاناته بتيجي عكس وتكون في مستوى الطلبة فوق الممتاز يعني من الاخر عايز يسقط الدفعة كلها
- عدم وجود اسلوب امتيازي للشرح وتعامل بأسلوب غير لائق اثناء الامتحانات العملي وعدم قدرة الدكتور على توفيق الاسئلة في الامتحانات وتوزيعها على مستوى الطلاب

6- External evaluator comments:

المقرر به عدد كبير من مخرجات التعلم

7- Response of External evaluator comments:

لا يمكن اختصار مخرجات التعلم لهذا المقرر

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 2015 – 2016

We will edit and print new edition of course book to be more readable and convenient for students

Course coordinator: Dr. Eng. Assem Badr Eldin

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Microprocessors II - (E422)

2- Program(s) on which this course is given:

- Electronic Engineering and Communication Technology BSc Program
- Computer Engineering and Information Technology BSc Program

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

4- Unit hours 2

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

5- Names of lecturers contributing to the delivery of the course: Dr. Eng. Assem Badr Eldin

6- Course coordinator: Dr. Eng. Assem Badr Eldin

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

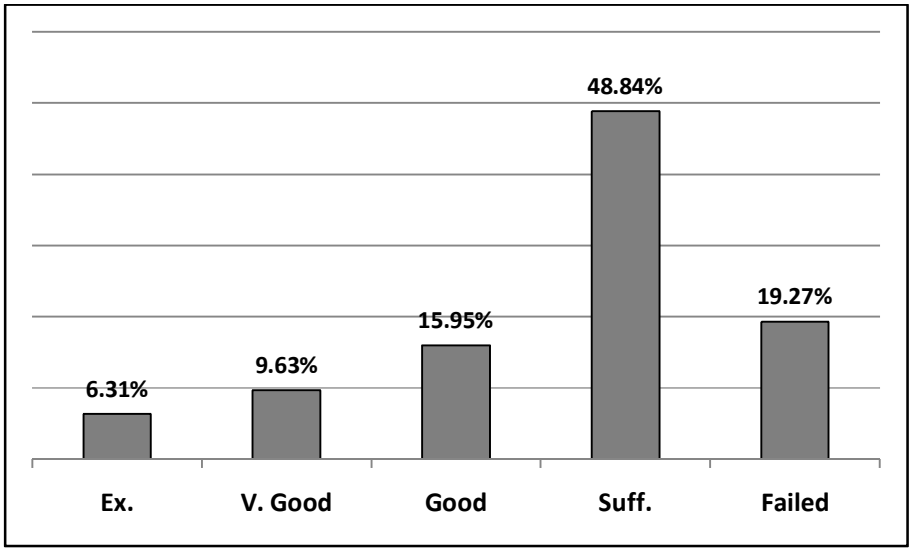
No. of students completing the course: **No.** 301 **91.49%**

Results:

	No.	%
Passed	243	80.7
Failed	58	19.3

Grading of successful students:

	No.	%
Excellent	19	6.3
Very Good	29	9.6
Good	48	15.9
Pass	147	48.8



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
➢ The architecture of the microcontrollers MCS-51 family.	3	2	--	Dr. Eng. Assem Badr Eldin
➢ The assembly instructions for MCS-51.	3	1	4	
➢ The Addressing modes for MCS-51.	2	1	--	
➢ The basic electric circuit for MCS-51.	2	1	4	
➢ The microcontroller AT89C51's timers and counters.	3	2	2	
➢ The interrupts and its priority of the microcontroller	3	2	4	
➢ The serial and parallel communications of microcontroller	3	2	4	
➢ The interface with external memories.	3	2	4	
➢ The interface with input units (such as sensors, keypad	3	1	2	
➢ The interface with output units (such as motors, monitors	3	1	2	
➢ Task for a mini-project.	2	--	4	
Total hours	30	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& Data show

Practical training/ laboratory: Micro-processor Lab.

Seminar/Workshop: None

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

Case Study: None11

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. Eng. Assem Badr Eldin

5- Administrative constraints

List any difficulties encountered

- Microprocessor lab needs more kits to match high students' number per section.

6- Student evaluation of the course:	**Response of course team**
List any criticisms	
None	None

7- External evaluator comments:

المقرر به عدد كبير من مخرجات التعلم

8- Response of External evaluator comments:

لا يمكن اختصار مخرجات التعلم لهذا المقرر

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 2015 – 2016

We will edit and print new edition of course book to be more readable and convenient for students

Course coordinator: Dr. Eng. Assem Badr Eldin

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Design of Electronic Circuits - (E401)

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

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

4- Unit hours 2

Lectures 3 hrs Tutorial 2hrs Practical 2 hrs Total 7hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Eman Mohamed

6- Course coordinator: Dr. Eman Mohamed

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

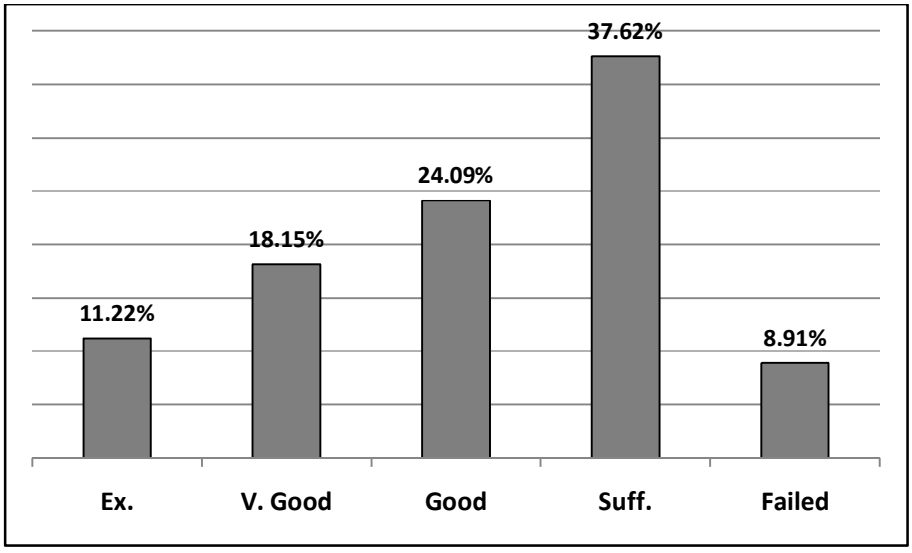
No. of students completing the course: **No.** 303 **92.1%**

Results:

	No.	%
Passed	276	91.1
Failed	27	8.9

Grading of successful students:

	No.	%
Excellent	34	11.2
Very Good	55	18.2
Good	73	24.1
Pass	114	37.6



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
Linear Power Amplifier				Dr. Eman Mohamed
Class A Amplification	2	2	2	
Class B Amplification	2	2	2	
Class C Amplification	2	2	2	
Class D Amplification	2	2		
Class E Amplification	2	2		
Class F Amplification	2	2		
Class S Amplification	2	2		
Sine Wave Oscillators The Criteria of Oscillation Negative Resistance Oscillators Feedback Oscillators Oscillator Design Techniques Colpitts Oscillator Analysis and Design Other Oscillator Circuits Maximum Efficiency Oscillator Crystal Controlled Oscillator	15	6	4	
ADC	4	2	2	
	4	2	2	
DAC	8	6	1	
Frequency synthesizers				
Total hours	**45**	**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

Practical training/ laboratory: Micro electronics Lab.

Seminar/Workshop: None

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

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	- %
Mid-Term Exam	20 %
Total	**100 %**

Members of examination committee Dr. Eman Mohamed

4- Administrative constraints

List any difficulties encountered

- Small number of assistants in the course where loading hours for each assistant is high so that office hours for them will be very low and students need to deliver and discuss electronic projects required from each student individually.
- Not all lecture rooms are equipped with data show.

5- Student evaluation of the course:

List any criticisms

- المعمل كل التجارب الاجهزة تحتاج انها تتغيير
- الإعلان عن درجات اعمال السنة في كل المواد وشكراً حتى يكون هناك شفافية في المعاملة والمعمل وارجو تجهيز الأجهزة الموجودة بداخل المعمل لكي تتيح للطلبة التطبيق العملي
- الكتاب ليس له استخدام بسبب سوء الكتاب

6- Comments from external evaluator(s):

External evaluator: None.

7- 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

8- Action plan for academic year 2015 – 2016

- Analyze and design different types of power amplifiers.
- Add voltage controlled oscillator application to the practical part.

Course coordinator: Dr. Eman Mohamed

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Waves & Antennas I - (E441)

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

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

4- Unit hours 2

Lectures 3 hrs 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: Prof. Dr. Mokhtar Abdel Halim

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

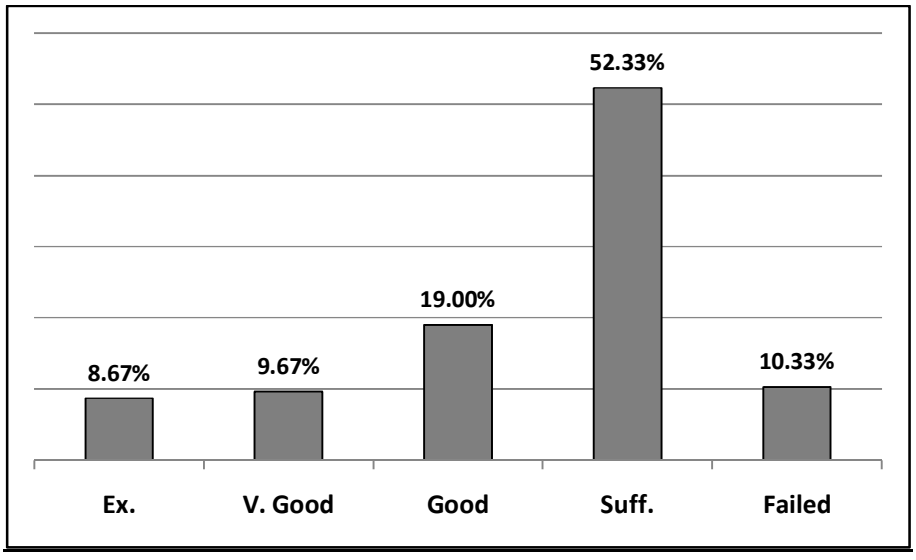
No. of students completing the course: **No.** 300 **91.185%**

Results:

	No.	%
Passed	269	89.7
Failed	31	10.3

Grading of successful students:

	No.	%
Excellent	26	8.7
Very Good	29	9.7
Good	57	19.0
Pass	157	52.3



C- Professional Information:

1 – Course teaching:

Topics	Lecture hours	Tutorial hours	Practical hours	Lecture
1-Plane wave reflection from a media interface (parallel and perpendicular polarization).	7	1	4	Prof. Dr. Mokhtar Abdel Halim
2- Rectangular and circular waveguides TE, TM modes (analysis – design and applications).	10	3	6	
3- Coaxial line and micro strip line (low – frequency and high – frequency solutions)	8	3	6	
4-Attenuation due to conductor and dielectric loss.	5	2	4	
5- Field analysis of transmission lines (traveling and standing waves).	5	2	4	
6-Smith chart and impedance matching (single stub and double stub tuners).	10	4	6	
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: Microwave Lab.

Seminar/Workshop: None

Class activity:

A monthly discussion of what is given in the previous weeks.

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	7 %
Mid-Term Exam	13 %
Total	**100 %**

Members of examination committee Prof. Dr. Mokhtar Abdel Halim

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

- يجب ربط المحاضرة بالسكشن
- يجب على المعيد ان لا يجمع اكثر من سكشن فى ميعاد واحد

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 2015 – 2016

The cases of transmission line with losses will be considered.

Course coordinator: Prof. Dr. Mokhtar Abdel Halim

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Summer Training - (E400)

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

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

4- Unit hours 2

Lectures - hrs Tutorial -hrs Practical – hrs Total-hrs

5- Names of lecturers contributing to the delivery of the course: Prof Dr. Said Biomy

6- Course coordinator: Prof Dr. Said Biomy

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

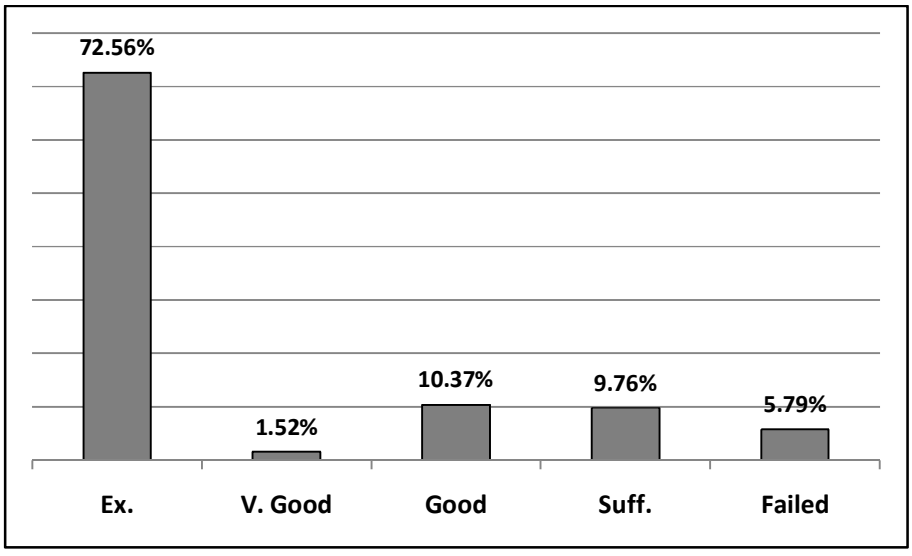
No. of students completing the course: **No.** 328 **99.7%**

Results:

	No.	%
Passed	158	94.2
Failed	19	5.8

Grading of successful students:

	No.	%
Excellent	238	72.6
Very Good	5	1.5
Good	34	10.4
Pass	32	9.8



C- Professional Information:

1 – Course teaching:

Topic	Practical hours	Lecturer
Practicing the actual production cycle	48	Prof Dr. Said Biomy
Total hours	48	

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: None

Practical training/ laboratory: External institutes visits

Seminar/Workshop: None

Class activity: None

Case Study: None

Other assignments/homework: None

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

Report	50 %
Practical examination	- %
Oral Discussion	50 %
Mid-Term Exam	- %
Total	**100 %**

Members of examination committee Prof Dr. Said Biomy

5- Administrative constraints

List any difficulties encountered

- None

6- Student evaluation of the course:	**Response of course team**
List any criticisms	
None	None

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 2015 – 2016

Actions required	Completion date	Person responsible
New training programs will be added.		

Course coordinator: Prof Dr. Said Biomy

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Electronic Measurements - (E432)

2- Program(s) on which this course is given:

- Electronic Engineering and Communication Technology BSc Program
- Computer Engineering and Information Technology BSc Program

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

4- Unit hours 2

Lectures 2 hrs Tutorial 0hrs Practical 4 hrs Total 4hrs

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

6- Course coordinator: Prof. Dr. HanyTawfik

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

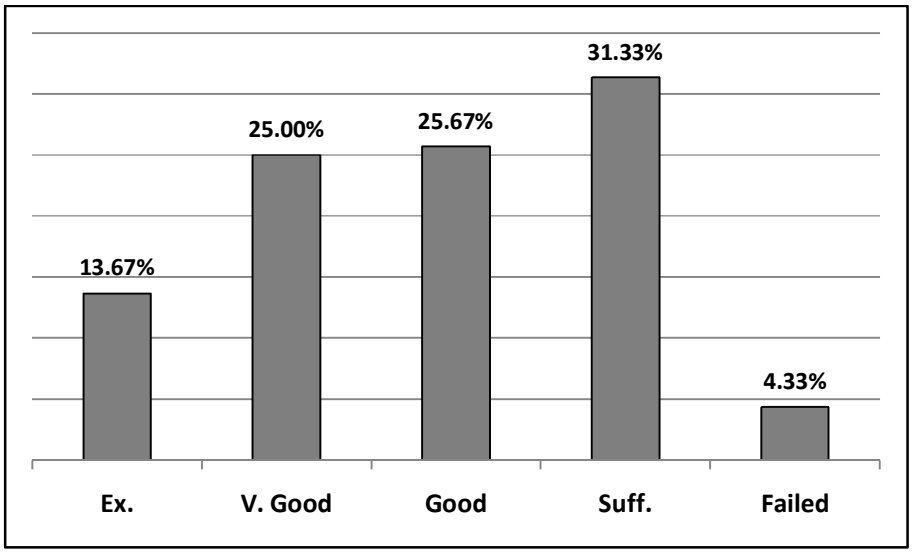
No. of students completing the course: **No.** 300 **91.185%**

Results:

	No.	%
Passed	287	95.7
Failed	13	4.3

Grading of successful students:

	No.	%
Excellent	41	13.7
Very Good	75	25.0
Good	77	25.7
Pass	94	31.3



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
Analog Measuring Equipment	2	2	2	Prof. Dr. HanyTawfik
CRT, Deflection Amplifiers, Time base	2	2	2	
Display systems& waveform display	2	2	2	
Dual Trace Oscilloscopes, supplies, testing	2	2	2	
Special types of oscilloscopes	2	2	2	
Digital Storage Oscilloscope	2	2	2	
Measuring phase difference using oscilloscope	2	2	2	
Measuring frequency using Lissajous Figure	2	2	2	
Analog Electronic Millie-ammeters	2	2	2	
Analog Electronic Voltmeters & ohmmeters	2	2	2	
Digital Electronic Voltmeters	2	2	2	
Digital Electronic Frequency meters, reciprocal count.	2	2	2	
Distortion meters	2	2	2	
Frequency meter and Spectrum Analyzer	2	2	2	
Signal generators	2	2	2	
Total hours	**30**	**30**	**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: Microelectronics Lab.

Seminar/Workshop: None

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

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	6.5 %
Mid-Term Exam	13.5 %
Total	**100 %**

Members of examination committee Prof. Dr. HanyTawfik

5- Administrative constraints

List any difficulties encountered

- None

6- Student evaluation of the course:

List any criticisms

- الرجاء تقيم المعيدين القائمين على المادة لان المعيد غير قادر على التفاعل مع الطلبة
- زيادة الجزء العملى بالمادة - المعيد غير قادر على التفاعل مع الطلاب - الكتاب الخاص بالمادة سيء

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 2015 – 2016

Adding more experiments related to digital measurements and insert more digital measuring instruments in lab..

Course coordinator: Prof. Dr. HanyTawfik

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Computer Organization - (E431)

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

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

4- Unit hours 2

Lectures 3hrs Tutorial 2 hrs Practical - Total 5 Hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Khaled Morsy

6- Course coordinator: Dr. Khaled Morsy

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

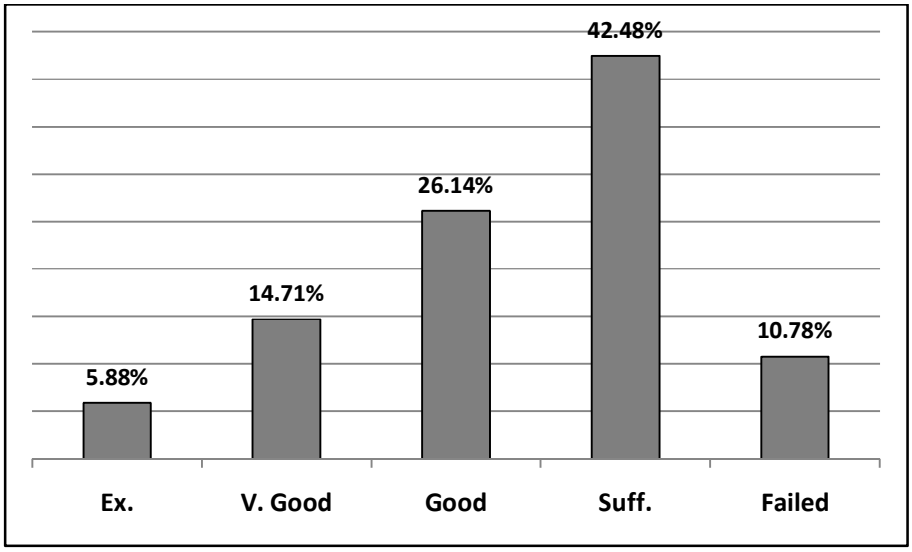
No. of students completing the course: **No.** 306 **93.01%**

Results:

	No.	%
Passed	273	89.2
Failed	33	10.8

Grading of successful students:

	No.	%
Excellent	18	5.9
Very Good	45	14.7
Good	80	26.1
Pass	130	42.5



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	**Lecture**
➢ Computer Structure and function	3	3	Dr. Khaled Morsy
➢ Review of sequential circuits (decoders, MUXs, Registers,..)	3	3	
➢ Bus structure and memory transfer	3	3	
➢ Basic computer organization	4	4	
➢ Instruction cycle	4	4	
➢ Design of basic computer (control of registers and memory)	4	4	
➢ Design of basic computer (Accumulator logic)	3	3	
➢ Micro-programmed Control (basic concepts, control memory)	3	3	
➢ Micro-programmed Control (Micro Programming)	2	2	
➢ Micro-programmed Control (Design of control unit)	5	5	
➢ Parallel organization (Multiple Processor organization)	4	4	
➢ Parallel organization (Multiple Processor design and vector processing)	4	4	
Total hours	45	45	

Percentage of the content specified:

>90 % √ **70-90 %** - **<70%** 100%

Reasons in detail for not teaching any topic programming Basic computer were not covered because the number of actual teaching weeks was about 12 weeks.

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

2- Teaching and learning methods:

Lectures: Classical lecturing using data-show and the white board

Practical training/ laboratory: None

Seminar/Workshop: Yes

Class activity:

Seminars, discussion of what is given in the previous weeks.

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	66.6666 %
Assignments, research /class work	20 %
Mid-Term Exam	13.3333 %
Total	**100 %**

Members of examination committee Dr. Khaled Morsy

5- Administrative constraints

List any difficulties encountered

- None

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

List any criticisms

- عدم اعلان نتيجة الاختبارات الدوريه ولا يسمح من قبل استاذ المادة بمناقشة اوراق الاختبارات الدورية

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 2015 – 2016

Actions required	Completion date	Person responsible
Give the student the ability to make intensive research and project in the field of computer organization, architecture and design as part of the evaluation.	Dec. 2015	

Course coordinator: Dr. Khaled Morsy

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Information Systems - (E412)

2- Program(s) on which this course is given:

- Electronic Engineering and Communication Technology BSc Program
- Computer Engineering and Information Technology BSc Program

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

4- Unit hours 2

Lectures 2hrs Tutorial 2hrs Practical - hrs Total 5hrs

5- Names of lecturers contributing to the delivery of the course: Dr. Khaled Morsy

6- Course coordinator: Dr. Khaled Morsy

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

B- Statistical Information:

No. of students attending the course: **No.** 329 **100%**

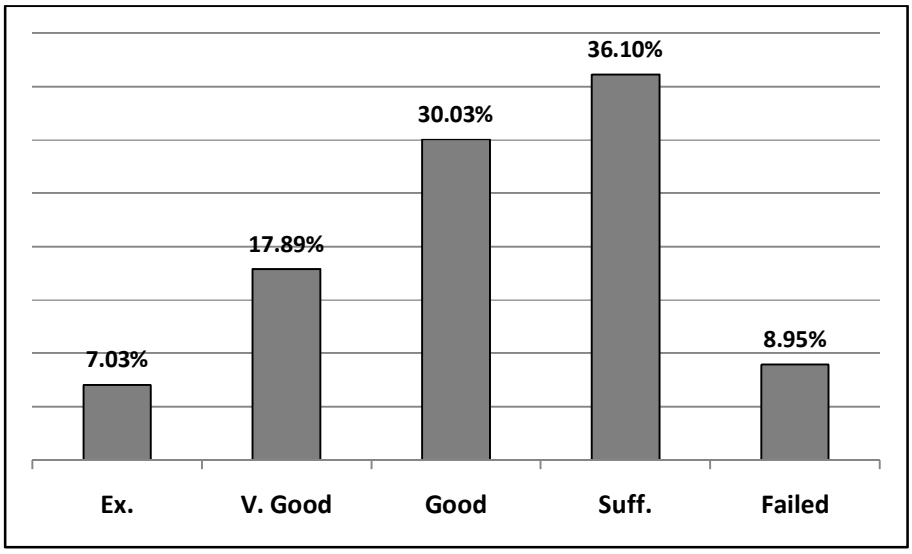
No. of students completing the course: **No.** 303 **92.1%**

Results:

	No.	%
Passed	275	94.1
Failed	28	5.9

Grading of successful students:

	No.	%
Excellent	22	7.3
Very Good	56	18.5
Good	94	31.0
Pass	113	37.3



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Lecture
➢ Information systems concepts	4	2	Dr. Khaled Morsy
➢ System Approach of solving Business problems	4	2	
➢ System development Life Cycle:	4		
• System Analysis and design	4	2	
• Data Flow Diagrams	4	2	
➢ Databases systems	4	2	
➢ Information System for Business Operations	4		
• Marketing Information Systems	4	1	
• Manufacturing Information Systems	4	1	
• Human Resources Management Systems	4	1	
• Accounting Information Systems	4	1	
➢ Management Information Systems	4	2	
➢ Decisions support systems	2	2	
➢ Artificial Intelligence and Expert Systems	2	2	
➢ Internet-Based Information Systems	2	4	
➢ Case Study	6	6	
Total hours	**60**	**30**	

Percentage of the content specified:

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

Reasons in detail for not teaching any topic Number of weeks were less than 15, so the expert systems and DSS were not covered completely.

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

2- Teaching and learning methods:

Lectures: Classical lecturing using the Data show and white board

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity:

A monthly discussion of what is given in the previous weeks.

Case Study: Each group of students made a simple IS project for some organization (hospital, university, Insurance company, school, pharmacy…..) including analysis, design ,and implementation

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	67 %
IS project (system analysis/design)	7%
Other assignments/class work	13 %
Mid-Term Exam	13 %
Total	**100 %**

Members of examination committee Dr. Khaled Morsy

5- Administrative constraints

List any difficulties encountered

- The Subject is not suitable for Communication students.

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

List any criticisms

- المادة الاتناسب قسم اتصالات
- اتمانى ان يكون هناك تمارين وامتحانات اكثر
- يجب على الدكتور ان يتفاعل مع الطلبة وان يكون الطالب لة الحق فى مناقشة الاختبارات

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 2015 – 2016

Actions required	**Completion date**	**Person responsible**
Demonstrate the stages of SDLC with more examples from real-life IS's as case studies.	Apr. 2016	

Course coordinator: Dr. Khaled Morsy

Signature:

Date: August 2015

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 2014-2015)

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.** 156 **100%**

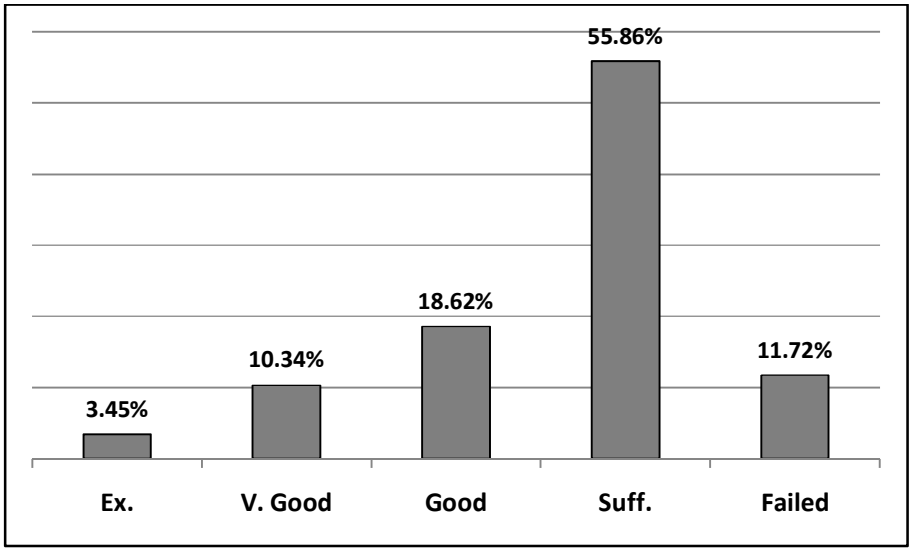
No. of students completing the course: **No.** 145 **92.94%**

Results:

	No.	%
Passed	128	88.27
Failed	17	11.72

Grading of successful students:

	No.	%
Excellent	5	3.4
Very Good	15	10.3
Good	27	18.6
Pass	81	55.9



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
• Signal, system and signal processing	2	1	2	Dr. Samir Kamal
• 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	
• Autocorrelation, cross-correlation, and convolution	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

5- Administrative constraints

List any difficulties encountered

- None

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

List any criticisms

None None

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 2015 – 2016

Add some experiments in DSP lab using MATLAB software package.

Course coordinator: Dr. Samir Kamal

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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: Prof. Dr. Mokhtar Abdel Halim

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

B- Statistical Information:

No. of students attending the course: **No.** 156 **100%**

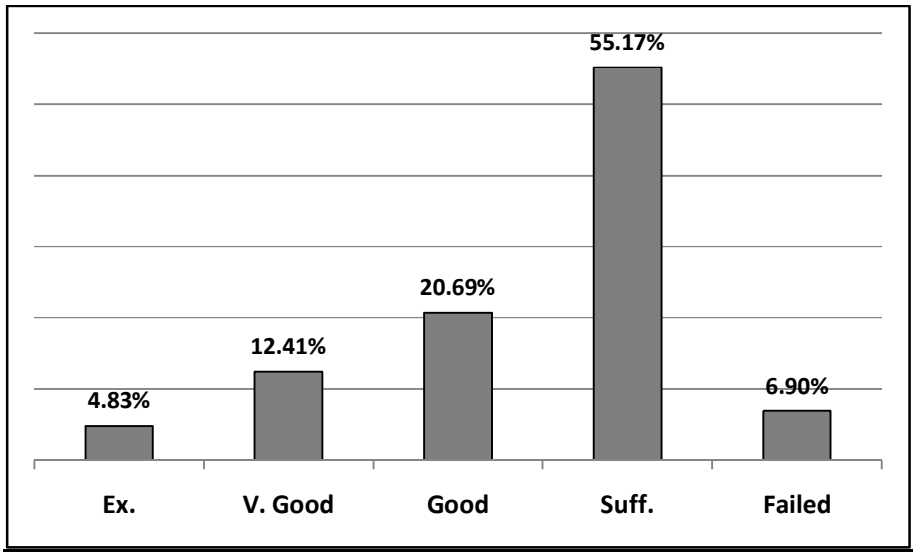
No. of students completing the course: **No.** 145 **92.94%**

Results:

	No.	%
Passed	135	93.11
Failed	10	6.89

Grading of successful students:

	No.	%
Excellent	7	4.8
Very Good	18	12.4
Good	30	20.7
Pass	80	55.2



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	
1- Microwave Resonators	3	1	2	Prof. Dr. Mokhtar Abdel Halim
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	
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

- الوقت غير كافى بالمرة فى المعمل
- شرح الدكتور مختار ممتاز ولكنة يعطى كمية كبيرة جداً فى وقت قصير
- لايوجد وقت كافى للتمارين يتيح الالمام بكافة مواضيع المادة
- زيادة عدد اجهزة المعمل لكى تتيح لكل الطلبة تنفيذ التجارب

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 2015 – 2016

Several problems of excitation of waveguides and cavity resonators needed to be solved

Course coordinator: Prof. Dr. Mokhtar Abdel Halim

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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.** 156 **100%**

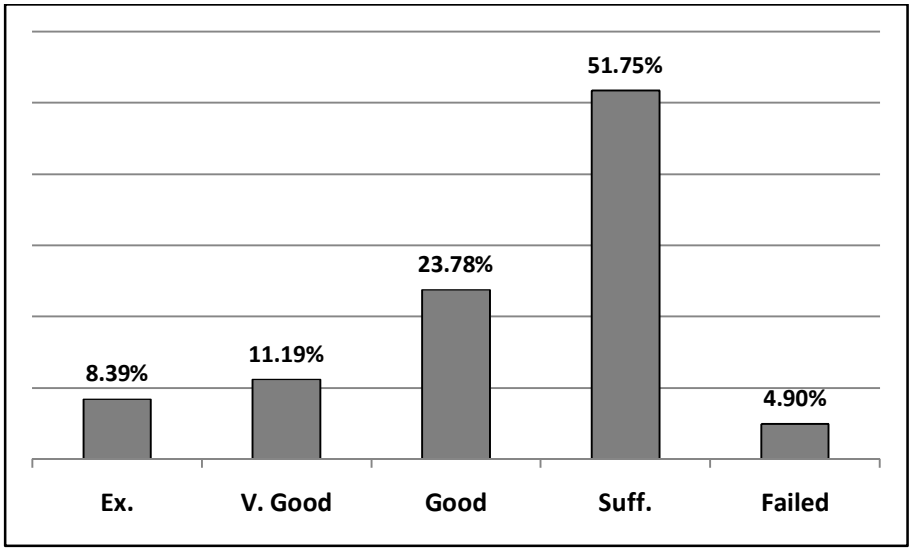
No. of students completing the course: **No.** 143 **91.7%**

Results:

	No.	%
Passed	136	95.11
Failed	7	4.89

Grading of successful students:

	No.	%
Excellent	12	8.4
Very Good	16	11.2
Good	34	23.8
Pass	74	51.7



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
• Introduction to needs for modulation	2	1	2	Prof. Dr. Saeid Baiomy.
• 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

- عدم الاستفادة من الكتاب الخاص بالمنهج
- مستوى الدكتور العلمى بعيد عن مستوى الطلبة - الدكتور بجد يجيد الشرح ولكن ليس لجميع الطلبة والقدرة على الفهم واستيعاب ما يقولة الدكتور - الدكتور متعاون جداً وعلى خلق كبير
- عدد ال سكاشن غير كافى لاستيعاب كل المقرر
- الدكتور شرحة كويس بس الكتابة على السبورة محتاجة تنظيم

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 2015– 2016

Add LED and LCD systems analysis.

Course coordinator: Prof. Dr. Saeid Baiomy.

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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.** 156 **100%**

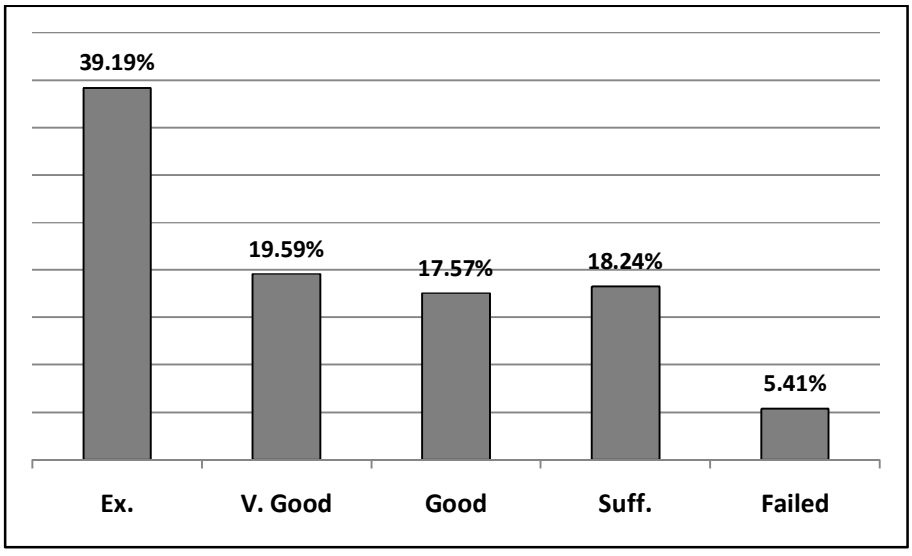
No. of students completing the course: **No.** 148 **94.87%**

Results:

	No.	%
Passed	140	94.59
Failed	8	5.41

Grading of successful students:

	No.	%
Excellent	58	39.2
Very Good	29	19.6
Good	26	17.6
Pass	27	18.2



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecture
1- Introduction to digital communication system stages.	4	2	2	Dr. Nelly Muhammad Hussein
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	
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

- المعيدة بتغيب كتير
- الدكتورة شرحها ممتاز ومنظمة فى الشرح وفى الكتابة
- الدكتورة -: نيللى على قدر عالى من الكفاءة ورجاء مكافاتها
- ارجو تحديث ال operating system في المعامل

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 discus principles of digital communications.

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

9- Action plan for academic year 2015 – 2016

Insert introduction for wire and wireless digital communication systems principles before starting in information theory part.

Course coordinator: Dr. Nelly Muhammad Hussein.

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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.** 156 **100%**

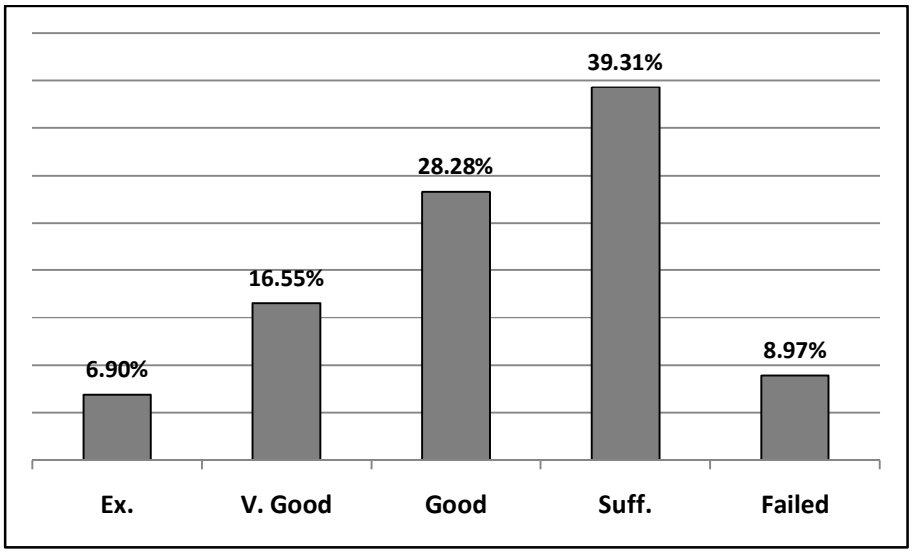
No. of students completing the course: **No.** 145 **92.94%**

Results:

	No.	%
Passed	132	91.04
Failed	13	8.96

Grading of successful students:

	No.	%
Excellent	10	6.9
Very Good	24	16.6
Good	41	28.3
Pass	57	39.3



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

- م /شيماء السيد على درجة عالية من الكفائة - عبد المنعم المهدى طريقة شرحة مش جذابة فى الشرح
- لايوجد معمل للمادة نرجو تطبيق عملى للمادة للاستفادة الكاملة
- د /عبد المنعم غير قادر على التفاهم مع الطلبة وعدم التحدث مع الطلبة - عدم التساهل مع الطلبة فى الامتحان
- تقليل محتوى المقرر
- الكتاب لايعتبر مرجع

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 2015– 2016: None

Course coordinator: Dr. Abdel Moneam Elmahdy

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Laws and Regulations - (B512)

2- Program(s) on which this course is given:

- Electronic Engineering and Communication Technology BSc Program
- Computer Engineering and Information Technology BSc Program

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

4- Unit hours 2

Lectures 3hrs Tutorial -hrs Practical - hrs Total 3hrs

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Shaaban Ragab Goda

6- Course coordinator: Prof. Dr. Shaaban Ragab Goda

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

B- Statistical Information:

No. of students attending the course: **No.** 156 **100%**

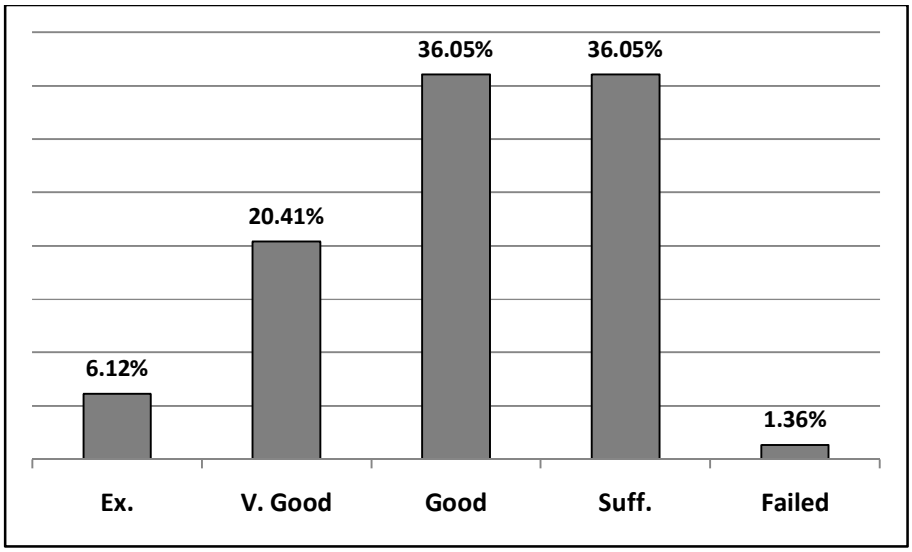
No. of students completing the course: **No.** 147 **94.23%**

Results:

	No.	%
Passed	145	98.64
Failed	2	1.36

Grading of successful students:

	No.	%
Excellent	9	6.1
Very Good	30	20.4
Good	53	36.1
Pass	53	36.1



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Lecturer
• تعاريفومفاهيمقانونيةفيمجالعقودالبناء	3	Prof. Dr. Shaaban Ragab Goda
• مراحلمشروعالبناء	3	
• المناقصاتوالعطاءات	6	
• عقودالبناء	3	
• التزاماتالمالكوالمقاول	3	
• مستنداتعقدالبناءوشروطه	3	
• عقودالاتحادالدوليللمهندسينالاستشارين	3	
• شروطعقدمقاولاتالاعمالالميكانيكيهوالكهربيهواعمالالتركيبات.	3	
• توجيهوتنظيماعمالالبناءالقانون 106 لسنه 1986	6	
• التحكيموتسويهالمنازعاتبالطرقالسلميه	6	
• مسئوليهالمهندسوتقاليدممارسهالمهنة	3	
• ادابممارسةالمهنة	3	
Total hours	**45**	

Percentage of the content specified:

>90 % [√] **70-90 %** [-] **<70%** [-]

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: None

Seminar/Workshop: None

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

Case Study: None

Other assignments/homework: monthly 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	10 %
Other assignments/class work	10 %
Mid-Term Exam	10 %
Total	**100 %**

Members of examination committee: Prof. Dr. Shaaban Ragab Goda

5- Administrative constraints

List any difficulties encountered

- None

6- Student evaluation of the course:

List any criticisms

المادة ليس لها اى علاقة بالاتصالات .. كلها بناء وانشاء

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 2015– 2016

Actions required	Completion date	Person responsible
None	August 2015	Prof. Dr. ShaabanRagabGoda

Course coordinator: Prof. Dr. Shaaban Ragab Goda

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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.** 156 **100%**

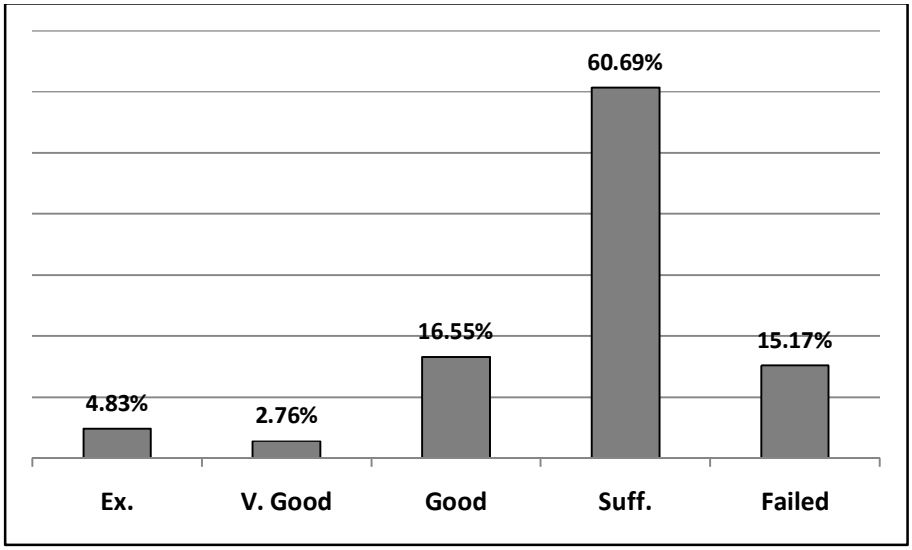
No. of students completing the course: **No.** 145 **92.94%**

Results:

	No.	%
Passed	123	84.82
Failed	22	15.18

Grading of successful students:

	No.	%
Excellent	7	4.8
Very Good	4	2.8
Good	24	16.6
Pass	88	60.7



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Tutorial hours	Practical hours	Lecturer
Introduction to antennas	4	-	-	Dr. Muhammad El-Wakeel
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	
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

- مراجعة المنهج من حيث سهولة استعاب الطلبة والوقت المحدد
- المعيد غير قادر على توصيل المعلومة وشخصية ضعيفة جداً ويعتمد على الحفظ

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 2015– 2016

Introduce numerical methods to solve antenna problems.

Course coordinator: Dr. Muhammad El-Wakeel

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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.** 156 **100%**

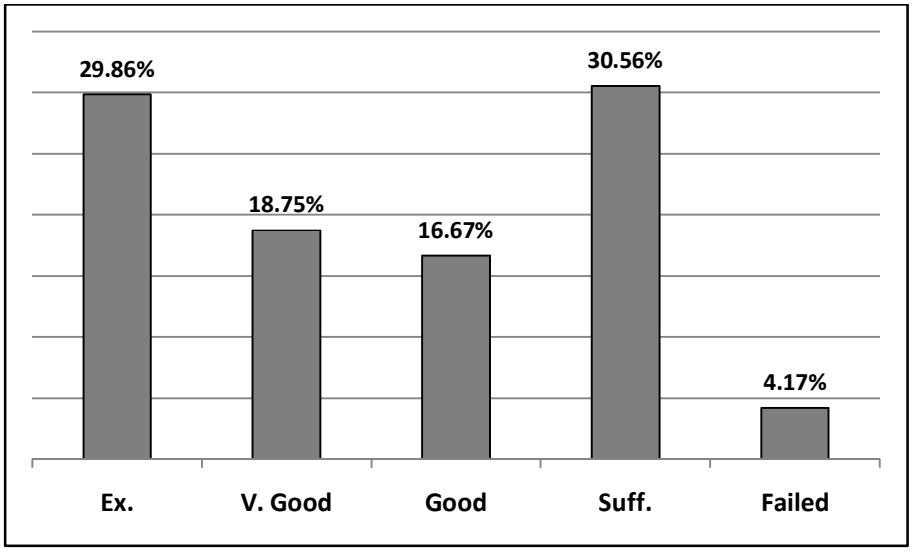
No. of students completing the course: **No.** 144 **92.31%**

Results:

	No.	%
Passed	138	95.9
Failed	6	4.1

Grading of successful students:

	No.	%
Excellent	43	29.9
Very Good	27	18.8
Good	24	16.7
Pass	44	30.6



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

- م. ايمان قوية جداً والشرح ممتاز والدكتور كويس
- الكتاب لا يعتبر مرجع لنا

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 2014– 2015

Add a part about communication networks.

Course coordinator: Prof. Dr. Saeid Baiomy

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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: Prof. Dr. Magdy Tantawy - Dr. Nelly Muhammad Hussein

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

B- Statistical Information:

No. of students attending the course: **No.** 156 **100%**

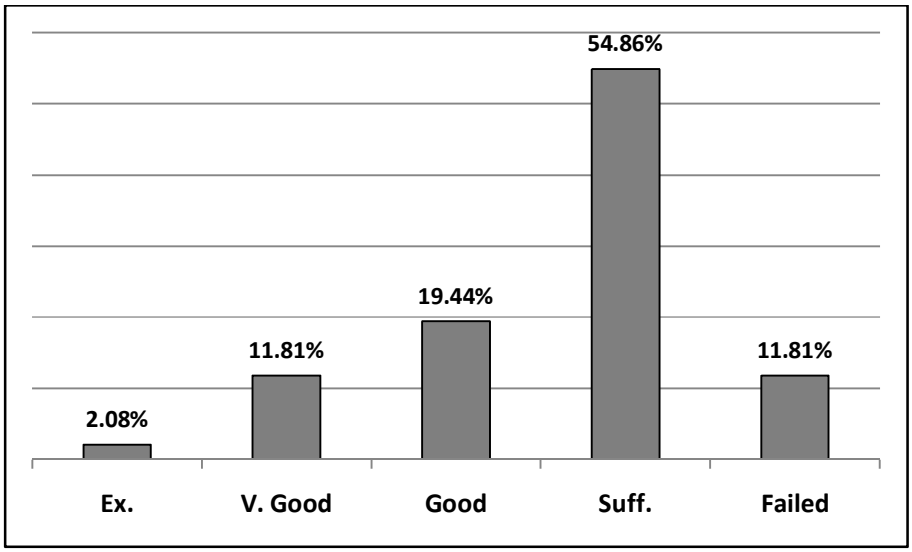
No. of students completing the course: **No.** 144 **92.31%**

Results:

	No.	%
Passed	127	88.19
Failed	17	11.81

Grading of successful students:

	No.	%
Excellent	3	2.1
Very Good	17	11.8
Good	28	19.4
Pass	79	54.9



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: Prof. Dr. Magdy Tantawy - 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

- نحتاج الى وضوح اكثر من المقرر الخاص بدكتور مجدى طنطاوى طريقة شرحة صعبة ولاتعتمد على الكتاب
- دكتور مجدى طنطاوى غير قادر على توصيل المعلومة وعدم قدرتة على جذب الطلبة للاستماع - د/نيلى ممتازة- المعيدة انجى اكثر من ممتازة وممتازة 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 2015 – 2016

Modify the course to suit the credit hours program starting at academic year 2016/ 2017

Course coordinator: Prof. Dr. Magdy Tantawy -Dr. Nelly Muhammad Hussein

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

A- Basic Information:

1- Title and code: Power Electronics - (E552(d))

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 -hrs Practical - hrs Total 4hrs

5- Names of lecturers contributing to the delivery of the course: Prof. Dr. Said A. Gawish

6- Course coordinator: Prof. Dr. Said A. Gawish

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

B- Statistical Information:

No. of students attending the course: **No.** 156 **100%**

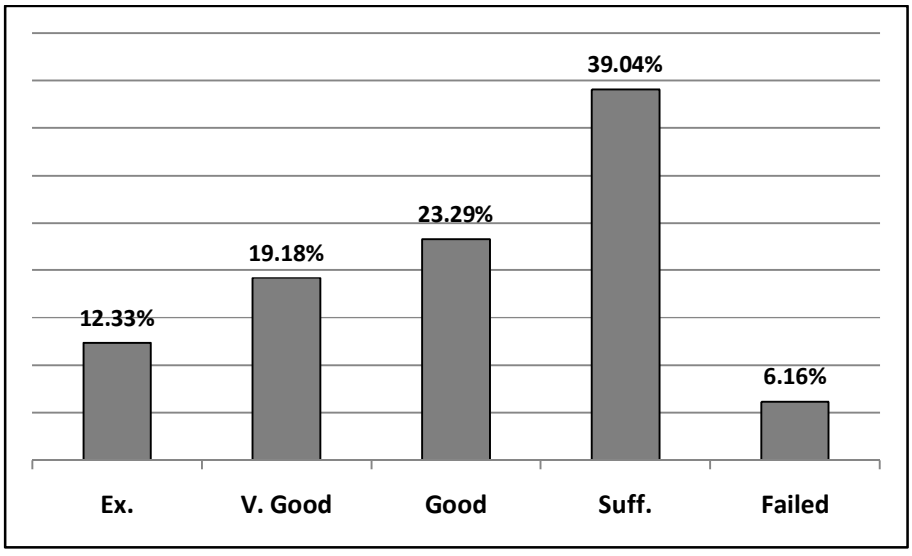
No. of students completing the course: **No.** 146 **93.58%**

Results:

	No.	%
Passed	137	93.84
Failed	9	6.16

Grading of successful students:

	No.	%
Excellent	18	12.3
Very Good	28	19.2
Good	34	23.3
Pass	57	39



C- Professional Information:

1 – Course teaching:

Topic	Lecture hours	Lecturer
• Main task of power electronics	4	Prof. Dr. Said A. Gawish
• Semiconductor switches	4	
• Thyristors	4	
• Power transistors	4	
• Firing circuits	4	
• Uncontrolled rectifiers	8	
• Controlled rectifiers	8	
• Parallel inverters	6	
• Series inverters	6	
• DC – Choppers	8	
• UPS	4	
Total hours	**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

Practical training/ laboratory: None

Seminar/Workshop: None

Class activity: Numerical exercises and solution of problems by computer

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	15 %
Mid-Term Exam	15 %
Total	**100 %**

Members of examination committee: Prof. Dr. Said A. Gawish

5- Administrative constraints

List any difficulties encountered

- None

6- Student evaluation of the course:	**Response of course team**
List any criticisms	
None	None

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 2015 – 2016: None

Course coordinator: Prof. Dr. Said A. Gawish

Signature:

Date: August 2015

Annual Course Report
(Academic Year 2014-2015)

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.** 156 **100%**

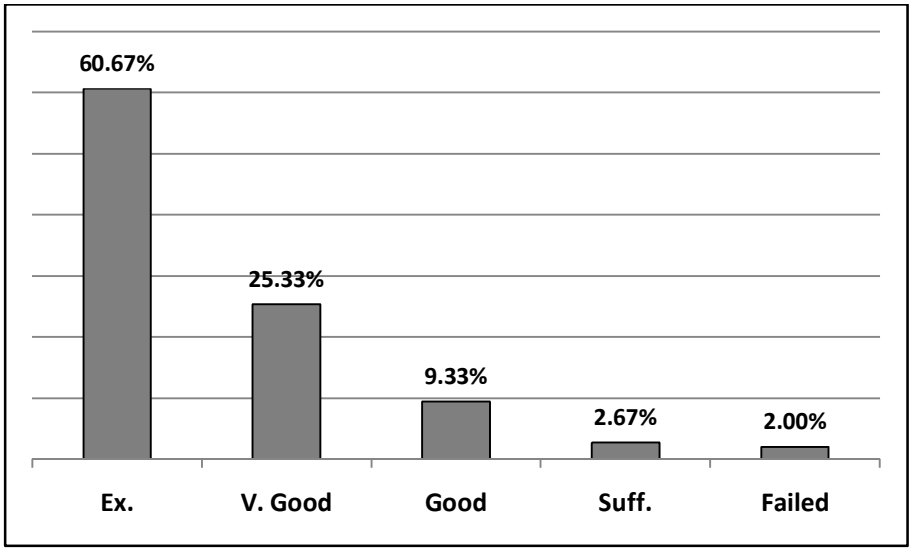
No. of students completing the course: **No.** 150 **96.15%**

Results:

	No.	%
Passed	319	98
Failed	3	2

Grading of successful students:

	No.	%
Excellent	91	60.7
Very Good	38	25.3
Good	14	9.3
Pass	4	2.7



C- Professional Information:

1 – Course teaching:

Topic	Lecture Hours	Tutorial hours	Practice hours	Lecturer
Project Background	6			Projects distributed among the teaching Staff
Project Activities	10			
Practical implementation		10	20	
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 2015 – 2016

Actions required	Completion date	Person responsible
Data show must to graduation projects	20/ 8 /2015	teaching Staff

Course coordinator: Projects distributed among the teaching Staff

Signature:

Date: August 2015