Menoufiya University Faculty of Electronic Eng. Department of Physics and Engineering Mathematics



Annual Course Report (۲・۱۲-۲・۱۳)

(ENGINEERING MATHEMATICS ^V)

A- Basic Information	
V Title and Code	Engineering Mathematics (^V) PM roy CE
Y Programme(s) on which this course is given	
* Academic year / Level of programme	Third year
	Level (7) – semester (1^{st})
Units/Weekly hours	
Lecture ^m Tutorial/Practical ^r	Total °
•- Names of lecturers contributing to the delive	ery of the course
i- Prof. Dr. Emil Shoukralla	
Course coordinator: Prof. Dr. Emil Shoukrall	a
External evaluators: Prof. Sayed M. Farag	
B- Statistical Information	
No. of students attending the course: No.	%
No. of students completing the course: No.	۳۹۸ % ۹۹.٤٢
Results:	
Passed: No. TAO % 97.VT Failed:	No. 17 % 7.77
Grading of successful students:	
Excellent: No. 1.7 % Yo.17 Very	Good: No. 187 % 88. 19
Good: No. רי א אדער Pass: Pass:	No. ^7 % 71.7

C- Professional Information

\. Course Teaching

Торіс	No of hours	Lecture/ hours	Tutorial/ Practical
 V. Linear Algebra Vector Spaces and subspaces Span of a set Linear Dependence, Independence Dimension and Basis Eigen Values & Eigen Vectors 	٩	٣	٦
 Y. Inner Product and Orthogonality Orthogonal set of vectors Vector projection Orthonormal set Unitary and Orthogonal Matrices Similarity of Matrices & Application to Quadratics 	٩	٣	7
 r. The Z-Transform Convergence of the Z-transform Properties of the Z-transform The Inverse Z-transform 	٦	۲	٤
 Frobability Theory Introduction The Conditional Probability The Elimination Mutually Independent Events 	٦	۲	٤
 Distribution Function of Two Variables The Marginal and Conditional p.d.f. Mathematical Expectation Some Probability Distributions 	٩ ٣٩	۳	۲.
Total sum	٣٩	٦٢	۲۸

Topics taught as a percentage of the content specified:

> ^q · %	\checkmark	۷۰_۹۰ %	<۲۰٪	
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Teaching and Learning

Methods:

Lectures:

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Practical Training/ Laboratory:	
Seminar/Workshop:	
Class Activity:	\checkmark
Case Study:	
Other Assignments/Homework:	\checkmark

Case Study

Other assignments/homework:

A real world project assigned.

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Student Assessment:

Method of Assessment	Percentage of total
Written examination	۷.
Midterm exams	10
Oral Examination	۱.
Practical/laboratory work	•
Other Assignments/class work	0
Total	۱۰۰%

Members of Examination Committee:

Prof. Dr. Magdy Kamel Dr. Fahema Esawy Prof. Gaber Allam

Role of external evaluator:

- Review examination to cover all objectives of the syllabus
- Confirming reliability and feasibility of the examination
- Determining repetition of the questions

Facilities and Teaching

Materials:

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Totally	adequate
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Adequate to some extent

Inadequate

\checkmark

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Administrative Constraints

- Students need extra hours to practice their exercises.
- Insufficient Lab. Technicians.

Y. Student Evaluation of the course:Responseof Course Team

-Insufficient mathematical topics.

- An extra exercises and solved problems are added to the course.

°. Comments from external evaluator(s):

There is a gap between up-to-date information and reference text books.

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£. Course Enhancement:

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Action Plai	n for Academic	ear v	1 - 1 + 1	·:
Improvement				

Improvement	Weak points	Action required	Person	Completion
Assessment	Midterm only & Reports	- add quizzes	Lectures	7.17
Quality of Teaching and Learning	lack of facilitiesHuge number of students	 Research, survey Increasing data show numbers Dividing the students into subgroups 	Faculty	4.14
Learning resources	Lack of availability of teaching & learning resources	Increasing number of computers and Labs workshop facilities	- Faculty - Department	4.15
Course content	 Y-To be renewed and developed Y - Insufficient mathematical topics. 	 Y • % of courses to be reviewed and replaced by new topics. Y - Adding new mathematical topics 	- Lectures - Department, faculty	۲.۱۲

Head of Department:

Prof. Dr. Magdy Kamel