

Program Specification

A – Basic Information

1. Program title: Engineering
2. Program type: Single ☐ Double ☐ Multiple ☐
3. Department(s): Engineering
4. Coordinator
5. External evaluator(s)
6. Last date of program specification approval : for 1st and 2nd year 2003
for 3rd and 4th year 1996

B – Professional Information

1. Program aims

2. Intended Learning Outcomes (ILOs)

- a. Knowledge and understanding:
- b. Intellectual skills
- c. Professional and practical skills
- d. General and transferable skills

3. Academic Standards

- a. External references for standards (benchmarks) :
 - 1- Egyptian Supreme Council for Higher Education.
 - 2- Egyptian National Academic Reference Standards (NARS.)
 - 3- Egyptian Engineers Syndicate.
- b. Comparison of provision to external references:
The academic standards of the programme are designed and adapted to satisfy the criteria presented in NARS.

4. Curriculum Structure and Contents

- a. Program duration: 8 semesters after a **preparatory (foundation) year**.
- b. Program structure:
 - a1. Number of hours/week: Lectures 19 hours Lab/exercise 6 hours Total 25 hour
 - a2. Number of credit hours: Compulsory 182 Elective 14 Optional 0
 - a3. Number of credit hours of basic science courses: No. 103 hours, 53 %
 - a4. Number of credit hours of social sciences and humanities: No. 4 hours, 2 %
 - a5. Number of credit hours if specialized courses: No.70 hours, 35%

- a6. Number of credit hours other courses(elective+project): No. 19 hours, 10 %
- a7. Practical/Field training: Students in the second year of the program have to attend a 2 weeks lab course during summer. Students in their 3rd and 4th years have to conduct industrial field training for 4 weeks.
- a8. Program levels (in credit hour systems)
1. 1st year 48 hour
 2. 2nd year 49 hour
 3. 3rd year 50 hour
 4. 4th year 49 hour

5. Program courses

a. 1st year - 1st semester compulsory

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

1st year - 2nd semester compulsory

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

*Continuing Course: Term work is added at the end of the second term

b. 2nd Year - 1st semester compulsory

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

2nd Year - 2nd semester compulsory

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

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*Continuing Course: Term work is added at the end of the second term

c. 3rd Year - 1st semester compulsory

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

3rd Year - 2nd semester compulsory

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

d. 4th Year - 1st semester

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

** Student selects two elective courses (1) and (2) either from the corresponding groups (1) and (2) and for minor specialty in the space program the two elective courses (1) and (2) can be chosen from group (5)

4th year - 2nd semester

Code	Course Title	Number of hours/week					Program ILOs covered by number*
		Lecture	Lab.	Total			

*Continuing Course: Term work is added at the end of the second term

** Student selects two elective courses (3) and (4) from the corresponding groups (3) and (4). For minor specialty in the space program the two elective courses (3) and (4) can be chosen from group (5)

Elective courses are

1. Classes for Elective (1)
2. Classes for Elective (2)
3. Classes for Elective (3)
4. Classes for Elective (4)
5. Elective Courses (1),(2),(3) and (4) for minor specialty in space program

6. Program admission requirements

7. Regulations for progression and program completion

First year	
Second year	
Third year	
Fourth year	

8. Evaluation of Program Intended Learning Outcomes

Evaluator	Tool
1-Senior Students	Survey
2-Alumni	Survey
3-Stakeholders (Employers)	Survey
4-External Evaluator(s) (External Examiner(s))	Evaluation report