

**Tanta University
Faculty of Engineering
IEEE Tanta Student Branch**

Translation Of Subject List

By: Sherif Abdel Wahed
Chairman of IEEE Tanta Student Branch
Email: eng_sherif@ieee.org
Phone: +20123956688
17 Ali Moustafa St.
Tanta
GH – 31111
Egypt

Electrical engineering First year

First term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	PM 1101	Mathematics (A)	4	2	6	50	-	100	150	3
2	EP 1102	Electrical Circuit	4	2	6	50	-	100	150	3
3	EC 1103	Computer Programming (A)	2	2	4	30	-	70	100	3
4	PM 1104	Physics	4	2	6	30	30	90	150	3
5	EP 1105	Electrical Measurements	4	2	6	50	-	100	150	3
6	EC 11H1	Engineering Thinking	3	2	3	-	-	40	40	2
Total			21	10	31				740	

Electrical engineering First year

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	PM 1201	Mathematics (B)	4	2	6	50	-	100	150	3
2	EP 1202	Electromagnetic fields	4	2	6	50	-	100	150	3
3	EC 1203	Computer Programming (B)	2	2	4	30	-	70	100	3
4	PM 1205	Production & Material Engineering	3	1	4	30	-	70	100	3
5	EE 1205	Electronics Engineering	4	2	6	50	-	100	150	3
6	EE 1206	Principal of Tests	-	3	3	15	15	40	70	3
7	EP 12H1	Technical Report	1	2	3	10	-	30	40	2
Total			18	14	32				760	

Electrical engineering

Second year

Computer science & Automatic Control Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	PM 1101	Mathematics (A)	3	2	5	35	-	85	120	3
2	EC 2102	Circuits analysis	4	2	6	50	-	100	150	3
3	EE 2103	Logic Circuits	4	2	6	50	-	100	150	3
4	EP 2106	Electrical Machines	4	2	6	50	-	100	150	3
5	EC 1205	Logic circuits design	4	2	6	50	-	100	150	3
6	EC 21H7	Engineering Economy	2	1	3	10	-	30	40	2
Total			21	11	32				760	

Electrical engineering
Second year

Computer science & Automatic Control Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	PM 2201	Mathematics (B)	3	2	5	35	-	85	120	3
2	EC 2207	Systems Engineering	3	2	5	35	-	85	120	3
3	EC 2203	Programmable Engineering	3	2	5	35	-	85	120	3
4	EC 2204	Computer construction	3	2	5	35	-	85	120	3
5	EC 2208	Logic System	3	2	5	35	-	85	120	3
6	EC 2260	Testes & Measurements	1	3	4	20	20	60	100	3
7	EC 22H3	Environment Studies	3	-	3	-	-	40	40	2
Total			19	13	32				740	

Electrical engineering

Third year

Computer science & Automatic Control Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	EC 3101	Testes & Measurements	-	4	4	20	20	60	100	3
2	PM 3102	Mathematics (B)	3	2	5	35	-	85	120	3
3	EC 3103	Microprocessors	3	2	5	35	-	85	120	3
4	EC 3104	Principle of Automatic Control	3	2	5	35	-	85	120	3
5	EC 3105	Algorithms	3	2	5	35	-	85	120	3
6	# # 31# #	Optional course Out of the Specialization	1	2	4	35	20	85	120	3
7	EC 3111	Production casting	3	-	3	-	-	40	40	2
Total			18	14	32				740	

Optional course Out of the Specialization (1)		
1	EP 3107	Electrical Power
2	EE 3108	Electrical Communications

Electrical engineering

Third year

Computer science & Automatic Control Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	EC 4001	Testes & Measurements	-	4	4	20	20	60	100	3
2	EC 4202	Mathematics (B)	3	2	5	35	-	85	120	3
3	EC 4203	Microprocessors	3	2	5	35	-	85	120	3
4	EC 4204	Principle of Automatic Control	3	2	5	35	-	85	120	3
5	EC 4205	Algorithms	3	2	5	35	-	85	120	3
6	EC 42# #	Optional course Out of the Specialization	1	2	4	35	20	85	120	3
7	EC 42# #	Production casting	3	-	3	-	-	40	40	2
Total			18	14	32				740	

Optional course From the Specialization (1)		
1	EC 3205	
2	EC 3206	Computer Design
3	EC 3207	Logic Programmable

Optional course From the Specialization (2)		
1	EC 3208	
2	EC 3209	Design using Computer
3	EC 3210	

Electrical engineering

Fourth year

Computer science & Automatic Control Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	EC 4001	Project	2	3	5	-	-	-	-	-
2	EC 4102	Testes & Measurements	-	4	4	20	20	60	100	3
3	EC 4103	Artificial Inelegant	3	2	5	35	-	85	120	3
4	EC 4104	Controlling Industrial operation	3	2	5	35	-	85	120	3
5	EC 41# #	Optional course From the Specialization	3	2	5	35	-	85	120	3
6	# # 41# #	Optional course Out of the Specialization	3	1	4	35	-	70	100	3
7	EC 41H5	Jedway Studies of Project	3	-	3	30	-	40	40	2
Total			15	17	32				900	

Optional course From the Specialization (3)

1	EC 4105	Computer Maintenance
2	EC 4106	Artificial Element of Computer
3	EC 4107	Information System
4	EC 4108	Digital Control
5	EC 4109	Medical & Biology Systems

Optional course Out of the Specialization (2)

1	EP 4110	Power Electronics
2	EE 4111	Light Electronics

Electrical engineering

Fourth year

Computer science & Automatic Control Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	EC 4001	Project	-	3	3	80	120	-	200	-
2	EC 4202	Testes & Measurements	-	4	4	20	20	60	100	3
3	EC 4203	Computer System Design	3	2	5	35	-	85	120	3
4	EC 4204	Control System Design	3	2	5	35	-	85	120	3
5	EC 4205	Computer Network	3	2	5	35	-	85	120	3
6	EC 42# #	Optional course From the	3	2	5	35	-	85	120	3
7	EC 42# #	Specialization Optional course From the Specialization	3	2	5	35	-	85	120	3
Total			15	17	32				900	

Optional course From the (4)		
1	EC 4206	
2	EC 4207	Picture Processing
3	EC 4208	Robot Systems
4	EC 4209	Nervous Network
5	EC 4210	

Optional course From the (5)		
1	EC 4206	New Destinations in Computer Construction
2	EC 4207	New Destinations In Programmable Engineering
3	EC 4208	New Destinations In System Engineering
4	EC 4209	New Destinations In Control Engineering
5	EC 4210	New Application In Computer Sciences

Electrical engineering
Second year
Electrical Power & Machine Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks			Time of written exam	
			Lecture	Section	Total		Oral & practical	Written exams		Total
1	PM 2101	Mathematics (A)	3	2	5	35	-	85	120	3
2	EC 2102	Circuits analysis	4	2	6	50	-	100	150	3
3	EE 2103	Logic Circuits	4	2	6	50	-	100	150	3
4	EP 2104	Principle of Electrical Power	4	2	6	50	-	100	150	3
5	EP 1205	Power conversion	4	2	6	50	-	100	150	3
6	EP 2112	Engineering Economy	2	1	3	10	-	30	40	2
Total			21	11	32				760	

Electrical engineering
Second year
Electrical Power & Machine Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks			Time of written exam	
			Lecture	Section	Total		Oral & practical	Written exams		Total
1	PM 2201	Mathematics (B)	3	2	5	35	-	85	120	3
2	EC 2202	Microprocessors	3	2	5	35	-	85	120	3
3	EP 2203	Power Transmission lines	3	2	5	35	-	85	120	3
4	EP 2204	Machines Engineering	3	2	5	35	-	85	120	3
5	EC 2208	Automatic Control	3	2	5	35	-	85	120	3
6	EP 2206	Electrical Tests	1	3	4	20	20	60	100	3
7	EP 2211	Environment Studies	3	-	3	-	-	40	40	2
Total			19	13	32				740	

Electrical engineering

Third year

Electrical Power & Machine Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks			Time of written exam	
			Lecture	Section	Total		Oral & practical	Written exams		Total
1	EP 3101	Generation of Electrical Power	3	2	5	35	-	85	120	3
2	EP 3102	Machines Engineering	3	2	5	35	-	85	120	3
3	EC 3106	Automatic Control	3	2	5	35	-	85	120	3
4	PM 3105	Mathematics	3	2	5	35	-	85	120	3
5	EP 3105	Electrical Testes & Measurements	-	4	5	20	20	60	100	3
6	# # 31# #	Optional course Out of the Specialization	3	2	4	35	-	85	120	3
7	EC 3111	Production casting	3	-	3	-	-	40	40	2
Total			18	14	32				740	

Optional course Out of the Specialization (2)

1	ME 3107	Heat Transmission
2	ME 3108	Mechanical Power Stations
3	ME 3109	Algorithm

Electrical engineering

Third year

Electrical Power & Machine Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks			Time of written exam	
			Lecture	Section	Total		Oral & practical	Written exams		Total
1	EP 3201	Power Electronics	4	2	6	50	-	100	150	3
2	EC 3203	Digital Control	3	2	5	35	-	85	120	3
3	EP 3203	Electrical Machines Design	4	2	6	50	-	100	150	3
4	EP 3204	Electrical Testes & Measurements	-	4	4	20	20	60	100	3
5	EC 32# #	Optional course From the Specialization	3	2	5	35	-	85	120	3
6	EC 32# #	Optional course From the Specialization	3	2	5	35	-	85	120	3
Total			17	14	31				760	

Optional course From the Specialization (2)

1	EP 3208	Electrical Machines Control
2	EP 3209	Computer Applications In Electrical Machines
3	EP 3210	General Electrical Machines Theorem

Optional course From the Specialization (1)

1	EP 3205	Electrical Power System Control
2	EP 3206	The new Sources Of Power
3	EP 3207	Electrical Structure

Electrical engineering

Fourth year

Electrical Power & Machine Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks			Time of written exam	
			Lecture	Section	Total		Oral & practical	Written exams		Total
1	EP 4101	Power Electronics Applications	3	2	5	35	-	85	120	3
2	EP 4102	Electrical Power System Protection	3	2	5	35	-	85	120	3
3	EP 4103	Electrical Machines	3	2	5	35	-	85	120	3
4	EP 4104	Electrical Testes & Measurements	-	4	4	20	20	60	100	3
5	## 41##	Optional course Out of the Specialization	3	1	4	30	-	70	100	3
6	EP 4000	Project	2	3	5	-	-	-	-	-
7	EP 41116	Jedway Studies of Project	3	-	3	-	-	40	40	2
Total			17	14	31				600	

Optional course Out of the Specialization (2)		
1	EE 4106	Electrical Communications
2	EC 4110	Robot System
3	EC 4111	Computer Program in Engineering Applications

Electrical engineering

Fourth year

Electrical Power & Machine Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks			Time of written exam	
			Lecture	Section	Total		Oral & practical	Written exams		Total
1	EP 4201	High Voltage Engineering	3	2	5	35	-	85	120	3
2	EP 4202	Electrical Power System Analysis	3	2	5	35	-	85	120	3
3	EP 4203	Electrical Moving	3	2	5	35	-	85	120	3
4	EP 4204	Electrical Testes & Measurements	-	4	4	20	20	60	100	3
5	EP 42# #	Optional course From the Specialization	3	2	5	35	-	85	120	3
6	EP 42# #	Optional course From the Specialization	2	2	5	35	-	85	120	3
7	EP 4000	Project	-	3	3	80	120	-	200	-
Total			15	17	32				900	

Optional course From the Specialization (4)

1	EP 4205	Digital Check Systems
2	EP 4206	New Destinations In Power Engineering
3	EP 4207	Electrical Transmission In DC
4	EP 4208	Electrical Power System Design

Optional course From the Specialization (3)

1	EP 4209	
2	EP 4210	New Destinations In Electrical Machines
3	EP 4211	New Destinations In Electronic Power
4	EP 4212	Air Electrical Machines

Electrical engineering
Second year
Electronic & Communication Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	PM 2101	Mathematics (A)	4	2	6	50	-	100	150	3
2	EE 2102	Electronic Circuits (A)	3	2	5	35	-	85	120	3
3	EC 2102	Circuits analysis	4	2	6	50	-	100	150	3
4	EC 2104	Logic Circuits	4	2	6	50	-	100	150	3
5	EC 2105	System & Signals Engineering	4	2	6	50	-	100	150	3
6	EE 21H1	Engineering Economy	2	1	3	10	-	30	40	2
Total			21	11	32				760	

Electrical engineering
Second year
Electronic & Communication Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	PM 2201	Mathematics (B)	3	2	5	35	-	85	120	3
2	EE 2202	Electronic Circuits (B)	3	2	5	35	-	85	120	3
3	EP 2203	Power conversion	3	2	5	35	-	85	120	3
4	EP 2204	Acoustics	3	2	5	35	-	85	120	3
5	EC 2209	Automatic Control	3	2	5	35	-	85	120	3
6	EE 2206	Electronic Tests	1	3	4	20	20	60	100	3
7	EE 22H2	Environment Studies	3	-	3	-	-	40	40	2
Total			19	13	32				740	

Electrical engineering

Third year

Electronic & Communication Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks			Time of written exam	
			Lecture	Section	Total		Oral & practical	Written exams		Total
1	EE 3101	Electronic Tests	-	4	4	20	20	60	100	3
2	PM 3102	Mathematics	3	2	5	35	-	85	120	3
3	EE 3106	Digital Electronics Principle of	3	2	5	35	-	85	120	3
4	EE 3105	Communications	3	2	5	35	-	85	120	3
5	EE 3105	Electromagnetic Waves	3	4	4	20	-	60	120	3
6	# # 31# #	Optional course Out of the Specialization	3	2	5	35	-	85	120	3
7	EE 3111	Production casting	3	-	3	-	-	40	40	2
Total			18	14	32				740	

Optional course Out of the Specialization (2)

1	ME 3107	Electrical Power Network
2	ME 3108	Computer Construction
3	ME 3109	Algorithm

Electrical engineering

Third year

Electronic & Communication Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	EE 3201	Electronic Tests	-	4	4	20	20	60	100	3
2	EE 3203	Communication Systems	4	2	6	50	-	100	150	3
3	EE 3203	Electronic Measurements	4	2	6	50	-	100	150	3
4	EC 3204	Microprocessors	3	2	5	35	-	85	120	3
5	EE 32# #	Optional course From the Specialization	3	2	5	35	-	85	120	3
6	EE 32# #	Optional course From the Specialization	3	2	5	35	-	85	120	3
Total			17	14	31				760	

Optional course From the Specialization (1)

1	EE 3205	Electronic Industrial Technology
2	EE 3206	Electronic Devices Maintenance
3	EE 3207	Car Electronics

Optional course From the Specialization (2)

1	EE 3208	Light Electronic
2	EE 3209	Digital Signals Processing
3	EE 3210	Sound & Vision Broadcasting Engineering

Electrical engineering

Fourth year

Electronic & Communication Engineering

First term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	EE 4000	Project	2	3	5	-	-	-	-	-
2	EE 4101	Electronic Tests (A)	-	4	4	20	20	60	100	3
3	EE 4102	Microwaves	3	2	5	35	-	85	120	3
4	EE 3103	Digital Communications	3	2	5	35	-	85	120	3
5	EE 4104	Antennas	3	2	5	35	-	85	120	3
6	# # 41# #	Optional course Out of the	3	1	4	30	-	70	100	3
7	EE 41H4	Specialization Jedway Studies of Project	3	-	3	-	-	40	40	2
Total			17	14	31				600	

Optional course Out of the Specialization (2)

1	EC 4112	Artificial Inelegant
2	MP 4117	Mechanical Electronics
3	EC 4113	Woven

Electrical engineering

Fourth year

Electronic & Communication Engineering

Second term

No	Code no.	Academic course	Hours per week			Distribution of marks				Time of written exam
			Lecture	Section	Total		Oral & practical	Written exams	Total	
1	EE 4000	Project	-	3	3	80	120	-	200	-
2	EE 4201	Electronic Tests (B)	-	4	4	20	20	60	100	3
3	EE 4202	Theoretic Information	3	2	5	35	-	85	120	3
4	EE 4203	Electronic System Design	3	2	5	35	-	85	120	3
5	EE 4204	Computer Network	3	2	5	35	-	85	120	3
6	EE 42# #	Optional course From the Specialization	3	2	5	35	-	85	120	3
7	EE 42# #	Optional course From the Specialization	3	2	5	35	-	58	120	3
Total			15	17	32				900	

Optional course From the Specialization (3)

1	EE 4205	Optical Fiber Communications
2	EE 3206	Industrial Electronics
3	EE 3207	New Destinations In Electronic Engineering

Optional course From the Specialization (4)

1	EE 4208	
2	EE 4209	Radar Systems
3	EE 4210	New Destinations In Electronic Communications