

ENGINEERING FACULTY, ELECTRICAL-ELECTRONICS ENGINEERING DEPARTMENT

2014-2015 EDUCATION CURRICULUM, DOUBLE MAJOR (BIOMEDICAL ENG.)PROGRAMME CODE: 0220, (100% English), (I,II,III,IV EDUCATION)

II. CLASS

3rd. Semester Courses

P. Code	Code	Course Name	LT	LB	CR	ECTS
219.032	EEE243	Electronics Devices	3	2	4	5
Total			3	2	4,0	5

4th. Semester Courses

P. Code	Code	Course Name	LT	LB	CR	ECTS
219.041	EEE222	Circuit Analysis II	3	2	4	5
Total			3	2	4,0	5

III. CLASS

5th. Semester Courses

P. Code	Code	Course Name	LT	LB	CR	ECTS
219.050	EEE301	Industrial Practice I	0	0	0	6
219.052	EEE343	Electronics I	3	2	4	4
219.053	EEE335	Electromagnetic Waves	3	2	4	4
219.055		Technical Elective Course (A1)	3	2	4	4
219.056		Technical Elective Course (B)	3	1	3,5	5
Total			12	7	15,5	23

6th. Semester Courses

P. Code	Code	Course Name	LT	LB	CR	ECTS
219.061	EEE342	Microprocessors	3	2	4	5
219.062	EEE360	Communication Systems I	3	2	4	6
219.063		Technical Elective Course (A2)	3	2	4	5
Total			9	6	12,0	16

Technical Elective Courses (A1)

EEE373	Control Systems I	3	2	4	4
EEE311	Software Applications of Electronics	3	2	4	4

Technical Elective Courses (A2)

EEE390	Electromechanical Energy Conversion I	3	2	4	5
EEE320	Digital Filters and Systems	3	2	4	5

Technical Elective Courses (B)

EEE351	Power Systems Analysis I	3	1	3,5	5
EEE353	Power Electronics	3	1	3,5	5
EEE391	Electrical Energy Production	3	1	3,5	5

IV. CLASS

7th. Semester Courses

P. Code	Code	Course Name	LT	LB	CR	ECTS
219.072	EEE403	Engineering Design	3	1	3,5	6
219.074		Technical Elective Course (B)	3	1	3,5	5
219.075		Technical Elective Course (B)	3	1	3,5	5
Total			9	3	10,5	16

8th. Semester Courses

P. Code	Code	Course Name	LT	LB	CR	ECTS
219.080	EEE402	Graduation Thesis	0	2	1	5
219.085		Technical Elective Course (B)	3	1	3,5	5
219.086		Technical Elective Course (B)	3	1	3,5	5
Total			6	4	8,0	15

Technical Elective Courses (B)

EEE405	Occupational Safety in Electric	3	1	3,5	5
EEE413	Artificial Neural Networks	3	1	3,5	5
EEE415	Web Technology and Applications	3	1	3,5	5
EEE417	Microcontrollers	3	1	3,5	5
EEE421	Integrated Circuits	3	1	3,5	5
EEE431	Microwave Techniques	3	1	3,5	5
EEE441	Biomedical Systems	3	1	3,5	5
EEE443	Electronics II	3	1	3,5	5
EEE445	Electronics Laboratory	3	1	3,5	5
EEE451	Power Systems Analysis II	3	1	3,5	5
EEE453	Industrial Applications Of Power Electronics	3	1	3,5	5
EEE455	Electrical Power Distribution	3	1	3,5	5
EEE457	Power Transmission Systems	3	1	3,5	5
EEE459	High Voltage Techniques	3	1	3,5	5
EEE461	Digital Communication	3	1	3,5	5
EEE463	Radio and TV Systems	3	1	3,5	5
EEE465	Computer Communication	3	1	3,5	5
EEE471	Process Control	3	1	3,5	5
EEE473	Industrial Automation Systems	3	1	3,5	5
EEE481	Optoelectronics I	3	1	3,5	5
EEE483	Semiconductor Thermoelectric Elements	3	1	3,5	5
EEE485	Laser Theory	3	1	3,5	5
EEE491	Electromechanical Energy Conversion II	3	1	3,5	5
EEE493	Renewable Energy Systems	3	1	3,5	5

Technical Elective Courses (B)

EEE414	Microprocessors Laboratory	3	1	3,5	5
EEE440	Medical Electronics	3	1	3,5	5
EEE442	Microelectronics Technology	3	1	3,5	5
EEE444	Electronics III	3	1	3,5	5
EEE446	High Frequency Electronics	3	1	3,5	5
EEE452	Electrical Machines Laboratory	3	1	3,5	5
EEE454	Power Systems laboratory	3	1	3,5	5
EEE456	Protection at Power Systems	3	1	3,5	5
EEE458	Special Electrical Machines	3	1	3,5	5
EEE460	Digital Signal Processing	3	1	3,5	5
EEE462	RF Electronics	3	1	3,5	5
EEE464	Fiber optic Communication	3	1	3,5	5
EEE466	Satellite Communication	3	1	3,5	5
EEE468	Antennas And Propagation	3	1	3,5	5
EEE472	Digital Control Systems	3	1	3,5	5
EEE474	Computer Controlled Systems	3	1	3,5	5
EEE476	Driver Systems	3	1	3,5	5
EEE482	Optoelectronics II	3	1	3,5	5
EEE484	Nanotechnology	3	1	3,5	5
EEE486	Illumination Technique	3	1	3,5	5
EEE492	Photovoltaic Energy Production	3	1	3,5	5
EEE494	Electrical Plants	3	1	3,5	5