

الأستاذ الدكتور / محمد نعيم أنور

وكيل كلية الهندسة

تحية طيبة و بعد...

أحيط سيادتكم علما بأن الخطة الدراسية الخاصة بقسم الهندسة الكهربائية بشعبتيه لفصل الربيع 2018 - 2019 هي كما يلي:

أولا: طلاب الفرقة الثانية:

يتم طرح المواد التالية وفقا للائحة 2014 للكلية:

Semester 4:

| Code | Course | Credits | L | T | P | Prerequisite |
|---------------------------|-------------------------------------------------|-----------|---|---|---|----------------|
| EB104 | Linear Algebra | 3 | 2 | 2 | 1 | EB102 |
| EB 204 | Engineering Mathematics (4) | 3 | 2 | 2 | 1 | EB103 |
| EE 202!! | Digital Logic Fundamentals | 3 | 2 | 2 | 1 | UEC02E |
| EE 211!! | Electronics Workshop | 1 | 0 | 0 | 4 | None |
| EE 213!! | Introduction to Electronic Circuits | 3 | 2 | 2 | 1 | EB122& EE291!! |
| EE 293!! | Electrical Measurements and Instrumentation (1) | 3 | 2 | 2 | 1 | EE291!! |
| HU 131!! | HU Elective (1): Project Management | 2 | 2 | 1 | 0 | None |
| Total Credit hours | | 18 | | | | |

كما يستمر طرح المقررات التالية وفقا للائحة 2011 للطلاب المتعثرين :

| Code | Course | Credits | L | T | P | Prerequisite |
|--------|-------------------------------------------------|---------|---|---|---|---------------|
| BE104 | Linear Algebra | 3 | 3 | 1 | 1 | BE102 |
| BE 204 | Engineering Mathematics (4) | 3 | 3 | 1 | 1 | BE103 |
| EE 202 | Digital Logic Fundamentals | 3 | 3 | 1 | 1 | UEC02E |
| EE 211 | Electronics Workshop | 1 | 0 | 0 | 4 | None |
| EE 213 | Introduction to Electronic Circuits | 3 | 3 | 1 | 1 | BE122 & EE291 |
| EE 293 | Electrical Measurements and Instrumentation (1) | 3 | 3 | 1 | 1 | EE291 |
| HU131 | Project Management | 2 | 2 | 1 | 0 | None |

ثانيا: طلاب الفرقة الثالثة:

Semester 6: Communications

يتم طرح المواد التالية وفقا للائحة 2014 للكلية:

| Code | Course | Credits | L | T | P | Prerequisite |
|---------------------------|--------------------------------------|-----------|---|---|---|--------------------|
| EB 205 | Probabilities and Random Variables | 3 | 3 | 1 | 0 | EB 204 |
| EE 261!! | Electromagnetic Waves & Trans. Media | 3 | 2 | 2 | 1 | EE 260!! |
| EE 251!! | Analog Communications | 3 | 2 | 2 | 1 | EE 241!! |
| EE 385!! | Electrical Power and Machines | 4 | 3 | 2 | 1 | EE 271!!& EE 291!! |
| EE 225!! | Solid State Electronics | 3 | 2 | 2 | 1 | EE213!! |
| EE 228!! | Analog Integrated Circuits | 3 | 2 | 2 | 1 | EE 224!! |
| Total Credit hours | | 19 | | | | |

Semester 6: Power & Automatic Control

يتم طرح المواد التالية وفقا للائحة 2014 للكلية:

| Code | Course | Credits | L | T | P | Prerequisite |
|---------------------------|-------------------------------------------------------|-----------|---|---|---|--------------|
| EB 205 | Probabilities and Random Variables | 3 | 3 | 1 | 0 | EB 204 |
| EE 261!! | Electromagnetic Waves & Trans. Media | 3 | 2 | 2 | 1 | EE260!! |
| EE 273!! | Electrical Power Engineering (2) | 3 | 2 | 2 | 1 | EE272!! |
| HU134!! | <u>HU Elective (2):</u> Engineering Economy | 2 | 2 | 1 | 0 | None |
| EE 286!! | Power Electronics (1) | 3 | 2 | 2 | 1 | EE213!! |
| EE 225!! | Solid State Electronics | 3 | 2 | 2 | 1 | EE213!! |
| Total Credit hours | | 17 | | | | |

كما يستمر طرح المقررات التالية وفقا للائحة 2011 و 2014 للطلاب المتعثرين:

| Code | Course | Credits | L | T | P | Prerequisite |
|--------|----------------------------------------------|---------|---|---|---|----------------|
| BE 205 | Probabilities and Random Variables | 3 | 3 | 1 | 0 | BE 204 |
| EE 261 | Electromagnetic Waves and Transmission Media | 3 | 3 | 1 | 1 | EE 260 |
| EE 251 | Analog Communications | 3 | 3 | 1 | 1 | EE 241 |
| EE 385 | Electrical Power and Machines | 4 | 4 | 1 | 1 | EE 271& EE 291 |
| EE 225 | Solid State Electronics | 3 | 3 | 1 | 1 | EE213 |
| EE 228 | Analog Integrated Circuits | 3 | 3 | 1 | 1 | EE 224 |
| EE 273 | Electrical Power Engineering (2) | 3 | 3 | 1 | 1 | EE272 |
| EE 286 | Power Electronics (1) | 3 | 3 | 1 | 1 | EE213 |

ثالثا: طلاب الفرقة الرابعة:
يتم طرح المواد التالية وفقا للائحة 2014 للكلية:

Semester 8: Communications

| Code | Course | Credits | L | T | P | Prerequisite |
|---------------------------|---------------------------------------|-----------|---|---|---|--------------|
| EE256!! | Digital Communications (2) | 3 | 2 | 2 | 1 | EE255!! |
| EE304!! | Microprocessor Based Systems | 3 | 2 | 2 | 1 | EE202!! |
| EE363!! | Microwave Measurements and Laboratory | 2 | 1 | 0 | 4 | EE262!! |
| EE364!! | Antenna Theory and Design | 3 | 2 | 2 | 1 | EE262!! |
| UC01 | Communications Skills | 2 | 2 | 0 | 0 | None |
| UGE03 | Arabic Language | 2 | 2 | 0 | 0 | None |
| Total Credit hours | | 15 | | | | |

Semester 8: Power & Automatic Control

| Code | Course | Credits | L | T | P | Prerequisite |
|---------------------------|-------------------------------------|-----------|---|---|---|--------------|
| EE283!! | Electrical Machines (2) | 3 | 2 | 2 | 1 | EE282!! |
| EE371!! | Power Systems Analysis | 3 | 2 | 2 | 1 | EE273!! |
| EE276!! | High Voltage Engineering | 3 | 2 | 2 | 1 | EE260!! |
| EE254!! | Communication Techn. for Power Eng. | 3 | 2 | 2 | 1 | EE241!! |
| UC01 | Communications Skills | 2 | 2 | 0 | 0 | None |
| UGE03 | Arabic Language | 2 | 2 | 0 | 0 | None |
| Total Credit hours | | 16 | | | | |

كما يستمر طرح المقررات التالية وفقا للائحة 2011 و 2014 للطلاب المتعثرين:

| Code | Course | Credits | L | T | P | Prerequisite |
|-------|---------------------------------------|---------|---|---|---|--------------|
| EE373 | Transmission & Distribution Systems | 3 | 3 | 1 | 1 | EE273 |
| EE283 | Electrical Machines (2) | 3 | 3 | 1 | 1 | EE282 |
| EE371 | Power Systems Analysis | 3 | 3 | 1 | 1 | EE273 |
| ME239 | Thermal Eng. For Power students | 4 | 3 | 2 | 2 | ME259 |
| BE206 | Special Functions | 3 | 3 | 1 | 1 | BE204 |
| EB206 | Special Functions | 3 | 3 | 1 | 1 | EB204 |
| EE276 | High Voltage Engineering | 3 | 3 | 1 | 1 | EE260 |
| EE254 | Communication Techn. for Power Eng. | 4 | 4 | 1 | 1 | EE241 |
| EE256 | Digital Communications (2) | 3 | 3 | 1 | 1 | EE255 |
| EE304 | Microprocessor Based Systems | 3 | 3 | 1 | 1 | EE202 |
| EE363 | Microwave Measurements and Laboratory | 2 | 1 | 0 | 4 | EE262 |
| EE364 | Antenna Theory and Design | 3 | 3 | 1 | 1 | EE262 |

رابعاً: طلاب الفرقة الخامسة: يتم طرح المواد التالية وفقاً للائحة 2011 للكلية:

Semester 10: Communications

| Code | Course | Credits | L | T | P | Prerequisite |
|--------------------------------------------------------------------------------|----------------------------------------------------------|-----------|---|---|---|-----------------|
| EE367 | <u>Elective (4):</u> Fundamentals of Acoustics | 3 | 3 | 1 | 1 | EE261 and EE251 |
| EE 354 | Mobile Communication Systems | 3 | 3 | 1 | 1 | EE256 |
| EE 400-2 | Graduation Project (2) | 3 | 3 | 0 | 1 | None |
| *سيقوم الطلاب باختيار عدد ثلاث مقررات فقط من الأربع مقررات الاختيارية التالية: | | | | | | |
| EE 345 | <u>Elective (5):</u> Digital Image Processing | 3 | 3 | 1 | 1 | EE 241 |
| EE325 | <u>Elective (6):</u> Computer Networks | 3 | 3 | 1 | 1 | EE256 |
| EE359 | <u>Elective (7):</u> Error Correcting Codes | 3 | 3 | 1 | 1 | EE256 |
| EE389 | <u>Elective:</u> PLC Applications in Industry | 3 | 3 | 1 | 1 | EE290 |
| Total Credit hours | | 18 | | | | |

Semester 10: Power & Automatic Control

| Code | Course | Credits | L | T | P | Prerequisite |
|------------------------------------------------------------------------------|--------------------------------------------------------|-------------------|---|---|---|--------------|
| EE 400-2 | Graduation Project (2) | 3 | 3 | 0 | 1 | None |
| EE 276 | High Voltage Engineering | 3 | 3 | 1 | 1 | EE260 |
| EE 225 | Solid State Electronics | 3 | 3 | 1 | 1 | EE213 |
| CV251 Or UC01 | Intr. To Civil Engineering | 3 | 3 | 2 | 0 | None |
| | Communications Skills | 2 | 2 | 0 | 0 | None |
| *سيقوم الطلاب باختيار عدد واحد مقرر فقط من الثلاث مقررات الاختيارية التالية: | | | | | | |
| EE 391 | <u>Elective (2):</u> Digital Control Systems | 3 | 3 | 1 | 1 | EE390 |
| EE389 | PLC Applications in Industry | 3 | 3 | 1 | 1 | EE290 |
| EE372 | Power System Planning | 3 | 3 | 1 | 1 | EE371 |
| Total Credit Hours | | 15 or 16 A | | | | |

كما يتم طرح المقرر التالي وفقاً للائحة 2011 حالات تخرج:

| Code | Course | Credits | L | T | P | Prerequisite |
|-------|---------------------|---------|---|---|---|--------------|
| EE380 | Electric Machines 3 | 3 | 3 | 1 | 1 | EE282 |

و لكم جزيل الشكر...

المشرف الأكاديمي لقسم الهندسة الكهربائية

ا.د.م. محمد عبد الرحمن