## KURUKSHETRA UNIVERSITY KURUKSHETRA

**Bachelor of Technology (Electrical Engineering)**

**Scheme of Studies/Examination Semester III (w.e.f. Session 2018-19 onwards)**

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| **Sr. No.** | **Course No.** | **Subject** | **L:T:P** | **Hours/Week** | **Credits** | **Examination Schedule (Marks)** | **Duration of Exam (Hrs)** |
| **Major****Test** | **Minor****Test** | **Practical** | **Total** |
| 1 | **\*EE-201A** | **Electrical Circuit Analysis** | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 2 | EE-203A | Analog Electronics | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 3 | **\*EE-205A** | **Electrical Machines - I** | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 4 | BSC-202A | Higher Engineering Mathematics | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 5 | HM-903A | Soft Skills & Interpersonal Communication | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 |  3 |
| 6 | **\*EE-211A** | **Electrical Machines– I Lab** | 0:0:2 | 2 | 1 | - | 40 | 60 | 100 | 3 |
| 7 | EE-207A | Analog Electronics Lab | 0:0:2 | 2 | 1 | - | 40 | 60 | 100 | 3 |
| 8 | \*\*EE-209A |  Industrial Training-I | 2:0:0 | 2 | - | - | 100 | 0 | 100 |  3 |
| 9 | \*\*\*MC-901A | Environmental Sciences | 3:0:0 | 3 | - | 100 | - | 0 | 100 | 3 |
|  |  | **Total** |  | **26** | **19** | **375** | **205** | **120** | **700** |  |
| \* Subjects Common with IIIrd Semester. B.Tech. [Electrical & Electronics Engg.] Scheme, K.U.K.\*\*EE-209A is a mandatory credit-less course in which the students will be evaluated for the industrial training undergone after 2nd semester and students will be required to get passing marks to qualify.\*\*\*MC-901A is a mandatory credit-less course in which the students will be required to get passing marks in the major test. |

**KURUKSHETRA UNIVERSITY KURUKSHETRA**

**Bachelor of Technology (Electrical Engineering)**

**Scheme of Studies/Examination Semester IV (w.e.f. Session 2018-19 onwards)**

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| **S.****No.** | **Course No.** | **Subject** | **L:T:P** | **Hours/ Week** | **Credits** | **Examination Schedule (Marks)** | **Duration of Exam (Hrs)** |
| **Major Test** | **Minor Test** | **Practical** | **Total** |
| 1 | EE-202A | Digital Electronics | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 2 | EE-204A | Signals and Systems | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 3 |  **\*EE- 206A** | **Electrical Machines – II** | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 4 | **\*EE-208A** | **Power Electronics** | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 5 |  EE-216A  | Electromagnetic Fields  | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 7 | **\*EE-210A** | **Electrical Machines- II Lab** | 0:0:2 | 2 | 1 | - | 40 | 60 | 100 | 3 |
| 8 |  **\*EE-212A** | **Power Electronics Lab** | 0:0:2 | 2 | 1 | - | 40 | 60 | 100 | 3 |
| 9 | EE-214A | Digital Electronics Laboratory | 0:0:2 | 2 | 1 | - | 40 | 60 | 100 | 3 |
| 10 | \*\*MC-902A | Constitution of India | 3:0:0 | 3 | - | 100 | - | 0 | 100 | 3 |
|  |  | **Total** |  | **28** | **22** | **375** | **245** | **180** | **800** |  |

\* Subjects Common with IV Semester. B.Tech. [Electrical & Electronics Engg.] Scheme, K.U.K.

\*\*MC-902A is a mandatory credit-less course in which the students will be required to get passing marks in the major test.

#### Note: All the students have to undergo 4 to 6 weeks Industrial Training after 4th semester which will be evaluated in 5th semester.

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**Bachelor of Technology (Electrical Engineering)**

**Scheme of Studies/Examination Semester V (w.e.f. Session 2018-19 onwards)**

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| **S.****No.** | **Course No.** |  **Subject** | **L:T:P** | **Hours/ Week** | **Credits** | **Examination Schedule (Marks)** | **Duration of Exam (Hrs.)** |
| **Major Test** | **Minor Test** | **Practical** | **Total** |
| 1 |  **\*EE-301A** | **Power Systems – I** | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 3 | **\*EE-305A** | **Control Systems** | 3:1:0 | 4 | 4 | 75 | 25 | 0 | 100 | 3 |
| 4 |  EEP\*\* | Program Elective-I | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 5 | **\*EE-309A** | **Microprocessors** | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 6 |  EEO\*\* | Open Elective-I  | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 7 | **\*EE-313A** | **Power Systems- I Lab** | 0:0:2 | 2 | 1 | - | 40 | 60 | 100 | 3 |
| 8 | **\*EE-315A** | **Microprocessors Lab** | 0:0:2 | 2 | 1 | 0 | 40 | 60 | 100 | 3 |
| 9 | **\*EE-317A** | **Control Systems Lab** | 0:0:2 | 2 | 1 | 0 | 40 | 60 | 100 | 3 |
| 10 | \*\*\*EE-319A | Industrial Training-II | 2:0:0 | 2 | - | - | \*100 | - | \*100 | 3 |
|  |  | **Total** |  | **25** | **20** | **375** | **245** | **180** | **800** |  |

\* Subjects Common with Vth Semester. B.Tech. [Electrical& Electronics Engg.] Scheme, K.U.K.

**\*\*The course of both Program Elective and Open Elective will be offered at 1/3rd strength or 20 students (whichever is smaller) of the section.**

\*\*\*EE-319A is a mandatory credit-less course in which the students will be evaluated for the industrial training undergone after 4th semester and students will be required to get passing marks to qualify.

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| **\*\*Program Elective-I** | EEP-307A | Electrical Machine Design |
| EEP-311A | Electrical Drives |
| EEP-315A | Power Management |
| **\*\*Open Elective-I** | EEO-321A |  Electronic Device |
| EEO-323A | Thermal and Fluid Engineering |
| EEO-325A | Computer Networks |
| EEO-327 | Soft Computing |

## KURUKSHETRA UNIVERSITY KURUKSHETRA

## Bachelor of Technology (Electrical Engineering)

**Scheme of Studies/Examination Semester VI (w.e.f. Session 2018-19 onwards)**

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| **S. No.** | **Course No.** | **Subject** | **L:T:P** | **Hours/ Week** | **Credits** | **Examination Schedule (Marks)** | **Duration of Exam (Hrs.)** |
| **Major Test** | **Minor Test** | **Practical** | **Total** |
| 1 | **\*EE-302A** | **Power Systems – II** | 3:1:0 | 4 |  4 | 75 | 25 | 0 | 100 | 3 |
| 2 | EEP\*\* | Program Elective-II | 3:0:0 | 3 |  3 | 75 | 25 | 0 | 100 | 3 |
| 3 | EEP\*\* | Program Elective-III | 3:0:0 | 3 |  3 | 75 | 25 | 0 | 100 | 3 |
| 4 | EEO\*\* | Open Elective-II | 3:0:0 | 3 |  3 | 75 | 25 | 0 | 100 | 3 |
| 5 | **\*EE-310A** | **Electrical Measurements and Measuring Instrumentation** | 3:0:0 | 3 |  3 | 75 | 25 | 0 | 100 | 3 |
| 6 | **\*EE-312A** | **Power Systems– II Lab** | 0:0:2 | 2 |  1 | - | 40 | 60 | 100 | 3 |
| 7 | **\*EE-314A** | **Measurements and Instrumentation Lab** | 0:0:2 | 2 |  1 | - | 40 | 60 | 100 | 3 |
| 8 | **\*EE-316A** | **Electronic Design Lab** | 0:0:6 | 6 |  3 | - | 40 | 60 | 100 | 3 |
| 9 | **HSMC 302A** | Organizational Behaviour | 3:0:0 | 3 |  3 | 75 | 25 | 0 | 100 | 3 |
|  |  | **Total** |  | **29** |  **24** | **450** | **270** | **180** | **900** |  |

\* Subjects Common with VIth Semester. B.Tech. [Electrical & Electronics Engg.] Scheme, K.U.K.

#### \*\* The course of both Program Elective and Open Elective will be offered at 1/3rd strength or 20 students (whichever is smaller) of the section. Note: All the students have to undergo 4 to 6 weeks Industrial Training after 6th semester which will be evaluated in 7th semester.

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| **\*\*Program Elective-II** | EEP-304A | Power System Protection |
| EEP-306A | Electrical Energy Conservation and Auditing |
| **\*\*Program Elective- III** | EEP-308A | Digital Signal Processing |
| EEP-318A | Computer Architecture |
| **\*\*Open Elective-II** | EEO-320A | Electrical Materials |
| EEO-322A | Strength of Materials |

**KURUKSHETRA UNIVERSITY KURUKSHETRA**

**Bachelor of Technology (Electrical Engineering)**

**Scheme of Studies/Examination Semester VII (w.e.f. session 2018-19 onwards)**

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| **S. No.** | **Course No.** | **Subject** | **L:T:P** | **Hours/ Week** | **Credits** | **Examination Schedule (Marks)** | **Duration of Exam (Hrs)** |
| **Major****Test** | **Minor****Test** | **Practical** | **Total** |
| 1 | HSMC-401A | Principles of Management | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 2 | EEP\* | Program Elective-IV | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 3 | EEP\* | Program Elective-V | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 4 | EEO\* | Open Elective-III | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
|  | EEO\* | Open Elective-IV | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 5 | EE-401LA | Project Stage-I | 0:0:6 | 6 | 3 | - | 40 | 60 | 100 | 3 |
| 6 | \*\*EE-403A | Industrial Training-II | 2:0:0 | 2 | - | - | 100 | - | 100 | 3 |
|  |  | **Total** |  | **23** | **18** | **375** | **165** | **60** | **600** |  |
| **\* The course of both Program Elective and Open Elective will be offered at 1/3rd strength or 20 students (whichever is smaller) of the section.**\*\*EE-403A is a mandatory credit-less course in which the students will be evaluated for the industrial training undergone after 6th semester and students will be required to get passing marks to qualify. |

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| **\*\*Program Elective-IV** | EEP-405A | HVDC Transmission System |
| EEP-407A | Industrial Electrical System |
| **\*\*Program Elective- V** | EEP-409A | High Voltage Engineering |
| EEP-411A | Digital Control System |
| **\*\*Open Elective-III** | EEO-401A | Utilization of Electric Energy |
| EEO-415A | Transducers and their Application |
| **\*\*Open Elective-IV** | EEO-417A | Signal and Image Processing |
| EEO-419A | Biomedical Instrumentation |
| EEO-421A | Fluid Machinery |

**KURUKSHETRA UNIVERSITY KURUKSHETRA**

**Bachelor of Technology ( Electrical Engineering)**

**Scheme of Studies/Examination Semester VIII (w.e.f. Session 2018-19 onwards)**

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| **S. No.** | **Course No.** | **Subject** | **L:T:P** | **Hours/ Week** | **Credits** | **Examination Schedule (Marks)** | **Duration****of Exam. (Hrs.)** |
|  **Major** **Test** | **Minor****Test** | **Practical** | **Total** |
| 1 | EEP\* | Program Elective-VI | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 3 | EEO\* | Open Elective-V | 3:0:0 | 3 | 3 |  75 | 25 | 0 | 100 |  3 |
| 4 | EEO\* | Open Elective-VI | 3:0:0 | 3 | 3 | 75 | 25 | 0 | 100 | 3 |
| 5 | EE-402LA | Project Stage-II | 0:0:12 | 12 | 6 | - | 40 | 60 | 100 | 3 |
|  |  | **Total** |  | **21** | **15** | **225** | **115** | **60** | **400** |  |
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| **\*\*Program Elective-VI** | EEP-402A | Electrical & Hybrid Vehicles |
| EEP-404A | Power Quality & FACTS |
| EEP-406A | Control System Design |
| EEP-408A | Wind and Solar Energy System |
| **\*\*Open Elective-V** | EEO-410A | Power Plant Engineering |
| EEO-412A | PLC and their application |
| **\*\*Open Elective-VI** | EEO-414A | Embedded System |
| EEO-416A | Automobile Engineering |
| EEO-418A | Biomedical Signal & Image Processing |

**\*The course of both Program Elective and Open Elective will be offered at 1/3rd strength or 20 students (whichever is smaller) of the section.**

**Total Credits = 160**