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## View Course Structure

Print

Course structure for B.Eng. Electrical and Electronics Engineering:- for 100 Level In Alpha Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| CHM111 | General Physical Chemistry | 3 | C | | | Industrial Chemistry |
| CHM119 | General Chemistry Practical I | 1 | C | | | Industrial Chemistry |
| CIT111 | Microsoft Office Specialist on Microsoft Office 2013 in WORD | 0 | C | | | Computer Science |
| GEC117 | Technical Drawing I | 1 | C | | | Mechanical Engineering |
| MAT111 | Algebra | 3 | C | | | Industrial Mathematics |
| MAT112 | Trigonometry and Analytical Geometry | 3 | C | | | Industrial Mathematics |
| PHY111 | Mechanics and Properties of Matter | 3 | C | | | Industrial Physics |
| PHY112 | Heat, Sound and Optics | 3 | C | | | Industrial Physics |
| PHY119 | Physics Practical I | 1 | C | | | Industrial Physics |
| **Compulsory TOTAL** | | **18** | | **18** | | |
| CST111 | Use of Library, Study Skills and Information Communication Technology I | 2 | U | | | Computer Science |
| GST111 | Communication in English I | 2 | U | | | English |
| **NUC TOTAL** | | **4** | | **4** | | |
| EDS111 | Entrepreneurial Development Studies I | 1 | V | | | Business Administration |
| TMC111 | Total Man Concept I | 1 | V | | | ALDC |
| TMC112 | Total Man Concept - Sports I | 0 | V | | | ALDC |
| **University TOTAL** | | **2** | | **2** | | |
| **GRAND TOTAL** | | **24** | | **24** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 100 Level In Omega Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| CHM122 | General Inorganic Chemistry | 2 | C | | | Industrial Chemistry |
| CHM123 | General Organic Chemistry (for Engineering) | 3 | C | | | Industrial Chemistry |
| CHM129 | General Chemistry Practical II | 1 | C | | | Industrial Chemistry |
| CIT121 | Microsoft Office Specialist on Microsoft Office 2013 in EXCEL | 0 | C | | | Computer Science |
| CIT141 | COMPTIA II | 0 | C | | | Computer Science |
| MAT121 | Calculus | 3 | C | | | Industrial Mathematics |
| MAT122 | Introduction to Vector Analysis | 3 | C | | | Industrial Mathematics |
| PHY121 | Electricity and Magnetism I | 2 | C | | | Industrial Physics |
| PHY122 | Atomic and Nuclear Physics | 2 | C | | | Industrial Physics |
| PHY129 | Physics Practical II | 1 | C | | | Industrial Physics |
| **Compulsory TOTAL** | | **17** | | **17** | | |
| CST121 | Use of Library, Study Skills and Information Communication Technology II | 2 | U | | | Computer Science |
| GST121 | Communication in English II | 2 | U | | | English |
| GST122 | Communication in French | 2 | U | | | English |
| **NUC TOTAL** | | **6** | | **6** | | |
| EDS121 | Entrepreneurial Development Studies II | 1 | V | | | Business Administration |
| TMC121 | Introduction to the Total Man Concept II | 1 | V | | | ALDC |
| TMC122 | Total Man Concept - Sports II | 0 | V | | | ALDC |
| **University TOTAL** | | **2** | | **2** | | |
| **GRAND TOTAL** | | **25** | | **25** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 200 Level In Alpha Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| GEC210 | Engineering Mathematics I | 3 | C | | | Petroleum Engineering |
| GEC211 | Introduction to Electrical Engineering I | 2 | C | | | Electrical and Electronics Engineering |
| GEC212 | Engineering Graphics | 2 | C | | | Mechanical Engineering |
| GEC213 | Material Science and Raw Material Studies | 2 | C | | | Mechanical Engineering |
| GEC214 | Applied Mechanics | 3 | C | | | Mechanical Engineering |
| GEC215 | Applied Computer Programming I | 2 | C | | | Information and Communication Engineering |
| GEC216 | Engineering Laboratory 1 | 1 | C | | | Computer Engineering |
| GEC217 | Engineer-In-Society | 2 | C | | | Information and Communication Engineering |
| GEC218 | Workshop Technology | 2 | C | | | Mechanical Engineering |
| GEC219 | Applied Mechanics Practical | 1 | C | | | Mechanical Engineering |
| **Compulsory TOTAL** | | **20** | | **20** | | |
| GST211 | Logic, Philosophy and Human Existence | 2 | U | | | English |
| **NUC TOTAL** | | **2** | | **2** | | |
| CIT213 | Auto Desk Auto Cad Certified User | 0 | V | | | Mechanical Engineering |
| EDS211 | Entrepreneurial Development Studies III | 1 | V | | | Business Administration |
| TMC211 | Total Man Concept III | 1 | V | | | ALDC |
| TMC212 | Total Man Concept – Sports III | 0 | V | | | ALDC |
| **University TOTAL** | | **2** | | **2** | | |
| **GRAND TOTAL** | | **24** | | **24** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 200 Level In Omega Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| GEC220 | Engineering Mathematics II | 3 | C | | | Chemical Engineering |
| GEC221 | Thermodynamics I | 3 | C | | | Chemical Engineering |
| GEC222 | Computer Aided Design and Manufacture | 2 | C | | | Mechanical Engineering |

| GEC223 | Fluid Mechanics I | 3 | C | | | Mechanical Engineering |
|---|---|---|---|---|---|---|
| GEC224 | Strength of Materials | 3 | C | | | Civil Engineering |
| GEC225 | Applied Computer Programming II | 1 | C | | | Information and Communication Engineering |
| GEC226 | Engineering Laboratory II | 1 | C | | | Information and Communication Engineering |
| GEC228 | Introduction to Electrical Engineering II | 2 | C | | | Electrical and Electronics Engineering |
| **Compulsory TOTAL** | | **18** | | **18** | | |
| GEC229 | Student Work Experience Programme (SWEP) | 0 | S | | | Electrical and Electronics Engineering |
| **SIWES TOTAL** | | **0** | | | | |
| GST221 | Nigerian People and Culture | 2 | U | | | Sociology |
| GST222 | Peace and Conflict Studies | 2 | U | | | Political Science |
| **NUC TOTAL** | | **4** | | **4** | | |
| CIT222 | Auto desk Certified Professional AutoCAD 2017 | 0 | V | | | Computer Science |
| CIT242 | Introduction to networking | 0 | V | | | Computer Science |
| EDS221 | Entrepreneurial Development Studies IV | 1 | V | | | Business Administration |
| TMC221 | Total Man Concept IV | 1 | V | | | ALDC |
| TMC222 | Total Man Concept - Sports IV | 0 | V | | | ALDC |
| **University TOTAL** | | **2** | | **2** | | |
| **GRAND TOTAL** | | **24** | | **24** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 300 Level In Alpha Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| EIE311 | Electromagnetic Fields & Waves | 3 | C | | | Electrical and Electronics Engineering |
| EIE312 | Communication Principles | 3 | C | | | Information and Communication Engineering |

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| EIE313 | Physical Electronics | 2 | C | | | Electrical and Electronics Engineering |
| EIE314 | Electric Circuit Theory | 3 | C | | | Electrical and Electronics Engineering |
| EIE315 | Electrical Machines | 2 | C | | | Electrical and Electronics Engineering |
| EIE317 | Electrical Machines I Practical | 1 | C | | | Electrical and Electronics Engineering |
| EIE318 | Laboratory Course I | 2 | C | | | Information and Communication Engineering |
| GEC310 | Engineering Mathematics III | 3 | C | | | Information and Communication Engineering |
| **Compulsory TOTAL** | | **19** | | **19** | | |
| GST311 | History and Philosophy of Science | 2 | U | | | English |
| **NUC TOTAL** | | **2** | | **2** | | |
| CIT314 | CCNA1 Networking Basics CCNA2. Routers and Routing Basics | 0 | V | | | Computer Science |
| DLD111 | Foundations of Leadership Development | 0 | V | | | ALDC |
| EDS311 | Entrepreneurial Development Studies V | 1 | V | | | Business Administration |
| TMC311 | Total Man Concept V | 1 | V | | | ALDC |
| TMC312 | Total Man Concept –Sports V | 0 | V | | | ALDC |
| **University TOTAL** | | **2** | | **2** | | |
| **GRAND TOTAL** | | **23** | | **23** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 300 Level In Omega Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| CIT322 | Switching Basic and Intermediate Routing/ CCNA Mining and SPSS Modeller | 0 | C | | | Computer Science |
| EEE321 | Electric Power Principles Practical | 2 | C | | | Electrical and Electronics Engineering |

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| EIE323 | Analogue Electronics | 3 | C | | | Electrical and Electronics Engineering |
| EIE326 | Software Development Techniques | 3 | C | | | Computer Engineering |
| EIE327 | Digital Electronics | 3 | C | | | Information and Communication Engineering |
| EIE328 | Laboratory Practical II | 2 | C | | | Computer Engineering |
| EIE341 | Electric Power Principles | 2 | C | | | Electrical and Electronics Engineering |
| GEC320 | Numerical Methods | 3 | C | | | Mechanical Engineering |
| GEC321 | Engineering Economics | 3 | C | | | Electrical and Electronics Engineering |
| GEC324 | Technical/Engineering Communication | 2 | C | | | Information and Communication Engineering |
| **Compulsory TOTAL** | | **23** | | **23** | | |
| GEC329 | SIWES -Industrial Training II | 0 | S | | | Electrical and Electronics Engineering |
| **SIWES TOTAL** | | **0** | | | | |
| DLD121 | Leadership Pathways | 0 | V | | | ALDC |
| EDS321 | Entrepreneurial Development Studies VI | 1 | V | | | Business Administration |
| TMC321 | Total Man Concept VI | 1 | V | | | ALDC |
| TMC322 | Total Man Concept - Sports VI | 0 | V | | | ALDC |
| **University TOTAL** | | **2** | | **2** | | |
| **GRAND TOTAL** | | **25** | | **25** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 400 Level In Alpha Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|

| CEN416 | Assembly Language Programming | 3 | C | | | Computer Engineering |
|--------|-------------------------------|---|---|---|---|----------------------|
| EEE418 | Electromagnetic Fields & Waves II | 3 | C | | | Electrical and Electronics Engineering |
| EIE412 | Control Systems | 3 | C | | | Electrical and Electronics Engineering |
| EIE413 | Laboratory Practical and Mini Project | 2 | C | | | Computer Engineering |
| EIE416 | Electrical Measurements and Instrumentation | 3 | C | | | Electrical and Electronics Engineering |
| EIE418 | Data Communication and Computer Network | 3 | C | | | Information and Communication Engineering |
| EIE431 | Electric Circuit Theory II | 2 | C | | | Electrical and Electronics Engineering |
| EIE432 | Electric Circuit Theory Practical | 1 | C | | | Electrical and Electronics Engineering |
| GEC410 | Engineering Statistics | 3 | C | | | Industrial Mathematics |
| **Compulsory TOTAL** | | **23** | | **23** | | |
| CIT412 | Implementing Cisco IP Routing | 0 | E | | | Computer Science |
| CIT413 | Cyber Security specialist Application Security | 0 | E | | | Management Information System |
| **Elective TOTAL** | | **0** | | | | |
| EDS411 | Entrepreneurial Development Studies VII | 1 | V | | | Business Administration |
| TMC411 | Total Man Concept VII | 1 | V | | | ALDC |
| TMC412 | Total Man Concept –Sports VII | 0 | V | | | ALDC |
| **University TOTAL** | | **2** | | **2** | | |
| **GRAND TOTAL** | | **25** | | **25** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 400 Level In Omega Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|-------------|-------|------|------|------------------------|--------------|-------------|
| GEC421 | Student Work Experience Programme (SWEP) I | 6 | S | | | Student Industrial Work Experience Scheme |
| GEC422 | Student Work Experience Programme (SWEP) II | 6 | S | | | Student Industrial Work Experience Scheme |

| GEC429 | SIWES - Industrial Training III | 6 | S | | | Civil Engineering |
|---|---|---|---|---|---|---|
| **SIWES TOTAL** | | **18** | | **18** | | |
| **GRAND TOTAL** | | **18** | | **18** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 500 Level In Alpha Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| EEE510 | Control Engineering | 3 | C | | | Electrical and Electronics Engineering |
| EEE513 | Electrical Energy Conversion& Storage | 2 | C | | | Electrical and Electronics Engineering |
| EEE514 | Electric Drives | 2 | C | | | Electrical and Electronics Engineering |
| EEE515 | Use of Engineering Software | 2 | C | | | Computer Engineering |
| EEE516 | Computer application to Power Systems | 2 | C | | | Electrical and Electronics Engineering |
| EEE517 | PowerElectronics | 2 | C | | | Electrical and Electronics Engineering |
| EEE531 | Electrical Power Systems Engineering | 2 | C | | | Electrical and Electronics Engineering |
| EIE510 | Research Methodology | 1 | C | | | Electrical and Electronics Engineering |
| EIE512 | Systems Reliability and Maintainability | 2 | C | | | Computer Engineering |
| GEC517 | Engineering Law | 2 | C | | | Civil Engineering |
| **Compulsory TOTAL** | | **20** | | **20** | | |
| DLD211 | Leadership and Developmental Studies | 0 | V | | | ALDC |
| EDS512 | Cost Engineering | 2 | V | | | Business Administration |
| TMC511 | Total Man Concept IX | 1 | V | | | ALDC |
| TMC512 | Total Man Concept - Sports IX | 0 | V | | | ALDC |
| **University TOTAL** | | **3** | | **3** | | |
| **GRAND TOTAL** | | **23** | | **23** | | |

Course structure for B.Eng. Electrical and Electronics Engineering:- for 500 Level In Omega Semester

| Course Code | Title | Unit | Type | Graduation Requirement | Prerequisite | homeprogram |
|---|---|---|---|---|---|---|
| EEE520 | Advanced Instrumentations | 2 | C | | | Electrical and Electronics Engineering |
| EEE525 | Electrical Machines II | 2 | C | | | Electrical and Electronics Engineering |
| EIE523 | Design & Installation of Electrical & ICT services | 3 | C | | | Electrical and Electronics Engineering |
| EIE529 | Final Year Project | 6 | C | | | Information and Communication Engineering |
| GEC527 | Engineering Management | 3 | C | | | Civil Engineering |
| **Compulsory TOTAL** | | **16** | | **16** | | |
| EEE521 | High Voltage Engineering | 2 | E | | | Electrical and Electronics Engineering |
| EEE523 | Industrial Electronics | 2 | E | | | Electrical and Electronics Engineering |
| EEE526 | Electric Power Systems Planning and Design | 2 | E | | | Electrical and Electronics Engineering |
| EEE540 | Artificial Intelligence and Applications-EEE | 2 | E | | | Electrical and Electronics Engineering |
| EEE541 | Digital Signal Processing-EEE | 3 | E | | | Electrical and Electronics Engineering |
| EEE547 | Power Systems Operation and Control | 2 | E | | | Electrical and Electronics Engineering |
| EIE521 | Electromagnetic Interference | 2 | E | | | Electrical and Electronics Engineering |
| **Elective TOTAL** | | **15** | | **4** | | |
| DLD221 | Leadership Dynamics | 0 | V | | | ALDC |
| EDS522 | Engineering Valuation | 2 | V | | | Business Administration |
| TMC521 | Total Man Concept X | 1 | V | | | ALDC |
| TMC522 | Total Man Concept X | 0 | V | | | ALDC |
| TTG222 | Leadership Dynamics | 0 | V | | | ALDC |
| **University TOTAL** | | **3** | | **3** | | |
| **GRAND TOTAL** | | **34** | | **23** | | |