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View Course Structure

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

| Course | Title | Unit | Туре | Graduation | Prerequisite | homeprogram |
|-----------|------------------------------------|------|------|-------------|--------------|--------------------|
| Code | | | - | Requirement | | |
| CHM111 | General Physical Chemistry | 3 | С | | | Industrial |
| | , | | | | | Chemistry |
| CHM119 | General Chemistry Practical I | 1 | C | | | Industrial |
| | , | | | | | Chemistry |
| CIT111 | Microsoft Office Specialist on | 0 | C | | | Computer |
| 011111 | Microsoft Office 2013 in WORD | | | | | Science |
| GEC117 | Technical Drawing I | 1 | C | | | Mechanical |
| GLCTIT | recillical Drawing 1 | ' | | | | Engineering |
| MAT111 | Algebra | 3 | С | | | Industrial |
| IVIATITI | Algebra | 3 | | | | Mathematics |
| MAT112 | Trigonometry and Analytical | 3 0 | | | | Industrial |
| IVIAT TTZ | Geometry | | | | | Mathematics |
| PHY111 | Mechanics and Properties of Matter | 3 | С | | | Industrial Physics |
| PHY112 | Heat, Sound and Optics | 3 | С | | | Industrial Physics |
| PHY119 | Physics Practical I | 1 | С | | | Industrial Physics |
| | Compulsory TOTAL | 18 | | 18 | | |
| | Use of Library, Study Skills and | | | | | C |
| CST111 | Information Communication | 2 | U | | | Computer |
| | Technology I | | | | | Science |
| GST111 | Communication in English I | 2 | U | | | English |
| | NUC TOTAL | 4 | | 4 | | |
| ED0444 | Entrepreneurial Development | 4 | ., | | | Business |
| EDS111 | Studies I | 1 | V | | | 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 | Туре | Graduation Requirement | Prerequisite | homeprogram |
|----------------|---|------|------|---------------------------|--------------|---------------------|
| CHM122 | General Inorganic Chemistry | 2 | С | | | Industrial |
| OTHVITZZ | Gorierai morganio Oriemistry | | Ŭ | | | Chemistry |
| CHM123 | General Organic Chemistry (for | 3 | C | | | Industrial |
| 011111120 | Engineering) | | Ŭ | | | Chemistry |
| CHM129 | General Chemistry Practical II | 1 | C | | | Industrial |
| 011111120 | Control Chomically Fractical in | | L | | | Chemistry |
| CIT121 | Microsoft Office Specialist on | 0 | C | | | Computer |
| 011121 | Microsoft Office 2013 in EXCEL | | Ŭ | | | Science |
| CIT141 | COMPTIA II | 0 | C | | | Computer |
| 011141 | OGWII TIVCII | | | | | Science |
| MAT121 | Calculus | 3 | С | | | Industrial |
| IVIATIZI | Calculus | | | | | Mathematics |
| MAT122 | Introduction to Vector Analysis | 3 | С | | | Industrial |
| IVIAT 122 | Introduction to Vector Analysis | | | | | Mathematics |
| PHY121 | Electricity and Magnetism I | 2 | С | | | Industrial Physics |
| PHY122 | Atomic and Nuclear Physics | 2 | С | | | Industrial Physics |
| PHY129 | Physics Practical II | 1 | С | | | Industrial Physics |
| | Compulsory TOTAL | 17 | | 17 | | |
| | Use of Library, Study Skills and | | | | | Computer |
| CST121 | Information Communication | 2 | U | | | Computer Science |
| | Technology II | | | | | Science |
| GST121 | Communication in English II | 2 | U | | | English |
| GST122 | Communication in French | 2 | U | | | English |
| | NUC TOTAL | 6 | | 6 | | |
| ED0404 | Entrepreneurial Development | 4 | V | | | Business |
| EDS121 | Studies II | 1 | \ \ | | | 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 | Туре | Graduation Requirement | Prerequisite | homeprogram |
|----------------|--|------|------|---------------------------|--------------|----------------------------|
| GEC210 | Engineering Mathematics I | 3 | С | | | Petroleum Engineering |
| GEC211 | Introduction to Electrical | 2 | С | | | Electrical and Electronics |
| GECZII | Engineering I | 2 | | | | Engineering |
| GEC212 | Engineering Graphics | 2 | С | | | Mechanical Engineering |
| GEC213 | Material Science and Raw Material Studies | 2 | С | | | Mechanical Engineering |
| GEC214 | Applied Mechanics | 3 | С | | | Mechanical Engineering |
| | Applied Computer | | | | | Information and |
| GEC215 | Applied Computer | 2 | С | | | Communication |
| | Programming I | | | | Engineering | |
| GEC216 | Engineering Laboratory 1 | 1 | С | | | Computer Engineering |
| | | | | | | Information and |
| GEC217 | Engineer-In-Society | 2 | С | | | Communication |
| | | | | | | Engineering |
| GEC218 | Workshop Technology | 2 | С | | | Mechanical Engineering |
| GEC219 | Applied Mechanics Practical | 1 | С | | | Mechanical Engineering |
| Coi | mpulsory TOTAL | 20 | | 20 | | |
| 007044 | Logic, Philosophy and | 0 | Ī., | | | E. aliak |
| GST211 | 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 |
| TMC040 | Total Man Concept – | 0 | V | | | ALDC |
| TMC212 | Sports III | 0 | \ \ | | | ALDC |
| Ur | niversity TOTAL | 2 | | 2 | | |
| C | 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 | С | | | Chemical Engineering |
| GEC221 | Thermodynamics I | 3 | С | | | Chemical Engineering |
| GEC222 | Computer Aided Design and Manufacture | 2 | С | | | Mechanical Engineering |

| GEC223 | Fluid Mechanics I | 3 | С | | Mechanical Engineering |
|--------|----------------------------|----|---|----|----------------------------|
| GEC224 | Strength of Materials | 3 | С | | Civil Engineering |
| | Applied Computer | | | | Information and |
| GEC225 | Programming II | 1 | С | | Communication |
| | Programming in | | | | Engineering |
| | | | | | Information and |
| GEC226 | Engineering Laboratory II | 1 | С | | Communication |
| | | | | | Engineering |
| GEC228 | Introduction to Electrical | 2 | С | | Electrical and Electronics |
| OLO220 | Engineering II | | | | Engineering |
| Co | ompulsory TOTAL | 18 | | 18 | |
| GEC229 | Student Work Experience | 0 | s | | Electrical and Electronics |
| OLO223 | Programme (SWEP) | | | | Engineering |
| | SIWES TOTAL | 0 | | | |
| GST221 | Nigerian People and | 2 | U | | Sociology |
| | Culture | | | | 37 |
| GST222 | Peace and Conflict Studies | 2 | U | | Political Science |
| | NUC TOTAL | 4 | | 4 | |
| CIT222 | Auto desk Certified | 0 | V | | Computer Science |
| 011222 | Professional AutoCAD 2017 | | Ľ | | Computer Colonics |
| CIT242 | Introduction to networking | 0 | V | | Computer Science |
| EDS221 | Entrepreneurial | 1 | V | | Business Administration |
| LBOZZI | Development Studies IV | ' | Ů | | Business / turninstration |
| TMC221 | Total Man Concept IV | 1 | V | | ALDC |
| TMC222 | Total Man Concept - Sports | 0 | V | | ALDC |
| U | niversity 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 & | 3 | С | | | Electrical and |
| LILUTI | Waves | 3 | | | | Electronics Engineering |
| | | | | | | Information and |
| EIE312 | Communication Principles | 3 | С | | | Communication |
| | | | | | | Engineering |

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

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 | С | | | Computer Science |
| EEE321 | Electric Power Principles Practical | 2 | С | | | Electrical and Electronics Engineering |

| | GRAND TOTAL | 25 | | 25 | |
|--------|-------------------------------|----|---|----|-------------------------------|
| | University TOTAL | 2 | | 2 | |
| TMC322 | Total Man Concept - Sports VI | 0 | V | | ALDC |
| TMC321 | Total Man Concept VI | 1 | V | | ALDC |
| LD0021 | Studies VI | | | | Administration |
| EDS321 | Entrepreneurial Development | 1 | V | | Business |
| DLD121 | Leadership Pathways | 0 | V | | ALDC |
| | SIWES TOTAL | 0 | | | |
| | | | | | Engineering |
| GEC329 | SIWES -Industrial Training II | 0 | s | | Electronics |
| | | | | | Electrical and |
| | Compulsory TOTAL | 23 | | 23 | |
| | Communication | | | | Engineering |
| GEC324 | Technical/Engineering | 2 | С | | Communication |
| | L | | | | Information and |
| | | | | | Engineering |
| GEC321 | Engineering Economics | 3 | С | | Electronics |
| | | | | | Electrical and |
| GEC320 | Numerical Methods | 3 | C | | Engineering |
| | Numerical Matter de | + | | | Mechanical |
| | | | | | Engineering |
| EIE341 | Electric Power Principles | 2 | С | | Electronics |
| | | | | | Electrical and |
| EIE328 | Laboratory Practical II | 2 | С | | Engineering |
| | | | | | Computer |
| LILUZI | Digital Electionics | | | | Engineering |
| EIE327 | Digital Electronics | 3 | C | | Information and Communication |
| | Techniques | | | | Engineering |
| EIE326 | Software Development | 3 | С | | Computer |
| | | | | | Engineering |
| EIE323 | Analogue Electronics | 3 | C | | Electronics |
| | | | | | Electrical and |

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

| Course | Title | Unit | _ | Graduation | Droro guioito | homonrogram |
|--------|--------|------|------|-------------|---------------|-------------|
| Code | little | Unit | Type | Requirement | | homeprogram |

| | Assembly Language | | | | | |
|---------|----------------------------|----|------|----|---|----------------------------|
| CEN416 | | 3 | С | | | Computer Engineering |
| | Programming | | | | | E |
| EEE418 | Electromagnetic Fields & | 3 | С | | | Electrical and Electronics |
| | Waves II | | | | | Engineering |
| EIE412 | Control Systems | 3 | С | | | Electrical and Electronics |
| | , | | | | | Engineering |
| EIE413 | Laboratory Practical and | 2 | С | | | Computer Engineering |
| | Mini Project | | | | | Computer Engineering |
| EIE416 | Electrical Measurements | 3 | С | | | Electrical and Electronics |
| LILTIO | and Instrumentation | 3 | | | | Engineering |
| | Data Communication and | | | | | Information and |
| EIE418 | | 3 | С | | | Communication |
| | Computer Network | | | | | Engineering |
| F1F404 | Electric Circuit Theory II | 0 | | | | Electrical and Electronics |
| EIE431 | | 2 | С | | | Engineering |
| FIE 400 | Electric Circuit Theory | 4 | | | | Electrical and Electronics |
| EIE432 | Practical | 1 | С | | | Engineering |
| GEC410 | Engineering Statistics | 3 | С | | | Industrial Mathematics |
| Co | ompulsory TOTAL | 23 | | 23 | | |
| OITAAO | Implementing Cisco IP | | | | | |
| CIT412 | Routing | 0 | E | | | Computer Science |
| 017440 | Cyber Security specialist | | _ | | | Management Information |
| CIT413 | Application Security | 0 | E | | | System |
| | Elective TOTAL | 0 | | | | |
| | Entrepreneurial | | Ţ, . | | | |
| EDS411 | Development Studies VII | 1 | V | | | Business Administration |
| TMC411 | Total Man Concept VII | 1 | V | | | ALDC |
| | Total Man Concept –Sports | | | | | |
| TMC412 | VII | 0 | V | | | ALDC |
| U | Iniversity TOTAL | 2 | | 2 | | |
| | GRAND TOTAL | 25 | | 25 | | |
| | | | l . | 1 | 1 | I . |

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 Trainin | g 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 | Title | Unit | Type | Graduation | Prerequisite | homeprogram |
|--------|----------------------------|------|------|-------------|--------------|----------------------------|
| Code | | | - | Requirement | | |
| EEE510 | Control Engineering | 3 | С | | | Electrical and Electronics |
| | | | | | | Engineering |
| EEE513 | Electrical Energy | 2 | С | | | Electrical and Electronics |
| | Conversion& Storage | | | | | Engineering |
| EEE514 | Electric Drives | 2 | С | | | Electrical and Electronics |
| | | | | | | Engineering |
| EEE515 | Use of Engineering | 2 | С | | | Computer Engineering |
| | Software | | | | | |
| EEE516 | Computer application to | 2 | С | | | Electrical and Electronics |
| | Power Systems | | | | | Engineering |
| EEE517 | PowerElectronics | 2 | С | | | Electrical and Electronics |
| | I OWEI EIGGE OTHES | | | | | Engineering |
| EEE531 | Electrical Power Systems | 2 | С | | | Electrical and Electronics |
| LLLJJT | Engineering | | | | | Engineering |
| EIE510 | Research Methodology | 1 | С | | | Electrical and Electronics |
| LILSTO | rtesearch Methodology | ' | | | | Engineering |
| EIE512 | Systems Reliability and | 2 | С | | | Computer Engineering |
| EIESIZ | Maintainability | | | | | Computer Engineering |
| GEC517 | Engineering Law | 2 | С | | | Civil Engineering |
| Co | ompulsory TOTAL | 20 | | 20 | | |
| DLD211 | Leadership and | 0 | V | | | ALDC |
| DLDZII | Developmental Studies | | | | | LDC |
| EDS512 | Cost Engineering | 2 | V | | | Business Administration |
| TMC511 | Total Man Concept IX | 1 | V | | | ALDC |
| TMC512 | Total Man Concept - Sports | 0 | V | | | ALDC |
| U | niversity 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 | Туре | Graduation Requirement | Prerequisite | homeprogram |
|----------------|-------------------------------------|------|------|---------------------------|--------------|----------------------------|
| EEE520 | Advanced Instrumentations | 2 | С | | | Electrical and Electronics |
| | | | | | | Engineering |
| EEE525 | Electrical Machines II | 2 | С | | | Electrical and Electronics |
| EEE525 | | | | | | Engineering |
| EIE523 | Design & Installation of | 3 | С | | | Electrical and Electronics |
| EIE323 | Electrical & ICT services | | | | | Engineering |
| | Final Year Project | 6 | | | | Information and |
| EIE529 | | | С | | | Communication |
| | | | | | | Engineering |
| GEC527 | Engineering Management | 3 | С | | | Civil Engineering |
| Co | ompulsory TOTAL | 16 | | 16 | | |
| EEE521 | High Voltage Engineering | 2 | E | | | Electrical and Electronics |
| LLLUZI | | | | | | Engineering |
| EEE523 | Industrial Electronics | 2 | E | | | Electrical and Electronics |
| LLLJZJ | | | - | | | Engineering |
| EEE526 | Electric Power Systems | 2 | Е | | | Electrical and Electronics |
| LLLJZU | Planning and Design | | | | | Engineering |
| EEE540 | Artificial Intelligence and | 2 | E | | | Electrical and Electronics |
| LLLJ40 | Applications-EEE | | | | | Engineering |
| EEE541 | Digital Signal Processing- EEE | 3 | E | | | Electrical and Electronics |
| LLLU41 | | | | | | Engineering |
| EEE547 | Power Systems Operation and Control | 2 | Е | | | Electrical and Electronics |
| LLLOTI | | | | | | Engineering |
| EIE521 | Electromagnetic | 2 | E | | | Electrical and Electronics |
| LILOZI | Interference | | | | | 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 |
| U | Iniversity TOTAL | 3 | | 3 | | |
| | GRAND TOTAL | 34 | | 23 | | |