



NYANDARUA NATIONAL POLYTECHNIC

P. O. BOX 2033 – 20300, NYAHURURU

Cell: 0727-256001

Email: info@nyandaruanationalpoly.ac.ke

Website: www.nyandaruanationalpoly.ac.ke

ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT COURSE UNITS PER CLASS

| TERMI 2025 | | | | | | | | |
|---------------------------------|--------|--------------|------------------------------|--------|--------------|---------------------------------|--------|--------------|
| ETL6 23S | | | ETL6 24J | | | ETL6 24M | | |
| UNIT | TYPE | COST | UNIT | TYPE | COST | UNIT | TYPE | COST |
| 1 ENVIRONMENT LIT | BASIC | 1,000 | 1 CONTROL SYSTEM | COMMON | 1,500 | 1. EMPLOYABILITY SKILLS | BASIC | 1,000 |
| 2. ELECTRICAL SYSTEM AUTOMATION | CORE | 1,500 | 2. EMPLOYABILITY SKILLS | BASIC | 1,000 | 2 COMM. SKILLS | BASIC | 1,000 |
| | | | 3. SECURITY SYSTEM | CORE | 1,500 | 3 WORKSHOP PROCESSES | COMMON | 1,500 |
| | | | | | | 3. ELECTRICAL MACHINE THEORY | CORE | 1,500 |
| | | | | | | 4. ELECTRICAL MACHINE PRACTICE | | |
| TOTAL ASSESSMENT FEE | | 2,500 | TOTAL ASSESSMENT FEE | | 4,000 | TOTAL ASSESSMENT FEE | | 5,000 |
| TERMI 2025 | | | | | | | | |
| ETL6 24S | | | ETL5 23S | | | ETL5 24J | | |
| UNIT | TYPE | COST | UNIT | TYPE | COST | UNIT | TYPE | COST |
| 1. EMPLOYABILITY SKILLS | BASIC | 1,000 | 1. EMPLOYABILITY SKILLS | BASIC | 1,000 | 1. EMPLOYABILITY SKILLS | BASIC | 1,000 |
| 2. TECHNICAL DRAWING | COMMON | 1,500 | 2. POWER SYSTEM INSTALLATION | CORE | 1,500 | 2. M.F.D | COMMON | 1,500 |
| 3 ELECTRONIC PRINCIPLES | COMMON | 1,500 | | | | | | |
| 4. OSHA | BASIC | 1,000 | | | | 3. SECURITY SYSTEM INSTALLATION | CORE | 1,500 |
| 5. SOLAR INSTALLATION | CORE | 1,500 | | | | | | |
| 6. ELECTRONIC FABRICATION | CORE | 1,500 | | | | | | |
| 7. ELECTRICAL INSTALLATION | CORE | 1,500 | | | | | | |
| TOTAL ASSESSMENT FEE | | 9,500 | TOTAL ASSESSMENT FEE | | 2,500 | TOTAL ASSESSMENT FEE | | 4,000 |
| TERM I 2025 UNIT S | | | | | | | | |
| ETL5 24M | | | ETL5 24S | | | ETL4 24M | | |





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|-----------------------------|--------|--------------|-----------------------------|--------|--------------|------------------------------|--------|--------------|
| 1.EMPLOYABILITY SKILLS | BASIC | 1,000 | EMPLOYABILITY SKILLS | BASIC | 1,000 | 1.SCIENCE | COMMON | 1,000 |
| 2. COMM. SKILLS | BASIC | 1,000 | ELECTRONIC FABRICATION | CORE | 1,500 | 2.ENTREPRENUERSHIP | BASIC | 700 |
| 3. WORKSHOP PROCESSES | COMMON | 1,500 | OSHA | BASIC | 1,000 | 3.COMM.SKILLS | BASIC | 700 |
| 4.ELECTRONIC FABRICATION | CORE | 1,500 | ELECTRICAL PRINCIPLES | COMMON | 1,500 | 4. EMPLOYABILITY SKILLS | BASIC | 700 |
| | | | ELECTRICAL INSTALLATION | CORE | 1,500 | 5.MATHS | COMMON | 1,000 |
| | | | ELECTRONIC PRINCIPLES | CORE | 1,500 | 6.SECURTY SYTEM INSTALLATION | CORE | 1,000 |
| | | | SOLAR INSTALLATION | CORE | 1,500 | | | |
| TOTAL ASSESSMENT FEE | | 5,000 | TOTAL ASSESSMENT FEE | | 9,500 | TOTAL ASSESSMENT FEE | | 5,100 |



SKILLS FOR EMPOWERMENT



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ELECTRICAL & ELECTRONICS ENGINEERING COURSE UNITS FOR TERM 1 2025

| TERM 1 2025 | | | | | | | | |
|---------------------------------|--------|--------------|-----------------------------|---------------------------------|--------------|-----------------------------|--------|--------------|
| ETL4 24S | | | ETL 6 25J | | | ETL5 25J | | |
| UNIT | TYPE | COST | UNIT | TYPE | COST | UNIT | TYPE | COST |
| 1. ENVIRONMENTAL LIT. | BASIC | 700 | 1.OSHA | BASIC | 1,000 | 1. OSHA | BASIC | 1,000 |
| 2. TECHNICAL DRAWING | COMMON | 1,000 | 2. ELECTRICAL PRINCIPLES | COMMON | 1,500 | 2. ELECTRICAL PRINCIPLES | COMMON | 1,500 |
| 3. COMM.SKILLS | COMMON | 700 | 3.ELECTRICAL INSTALLATION | CORE | 1,500 | 3.ELECTRICAL INSTALLATION | CORE | 1,500 |
| 4. ELECTRICAL INSTALLATION | CORE | 1,000 | 4.SOLAR INSTALLATION | CORE | 1,500 | 4.SOLAR INSTALLATION | CORE | 1,500 |
| 5. OSHA | BASIC | 700 | | | | | | |
| 6. SECURITY SYSTEM INSTALLATION | CORE | 1,000 | | | | | | |
| TOTAL ASSESSMENT FEE | | 5,100 | TOTAL ASSESSMENT FEE | | 5,500 | TOTAL ASSESSMENT FEE | | 5,500 |
| TERM 1 2025 COURSE UNITS | | | | | | | | |
| ETL4 25J | | | EWM 24S | | | | | |
| UNIT | TYPE | COST | UNIT | TYPE | COST | | | |
| 1. OSHA | BASIC | 700 | ELECTRICAL INSTALLATION | NITA GRADE 3 TEST (5,000) | | | | |
| 2. ELECTRICAL PRINCIPLES | COMMON | 1,000 | | | | | | |
| 3.ELECTRICAL INSTALLATION | CORE | 1,000 | | | | | | |
| 4. SOLAR INSTALLATION | CORE | 1,000 | | | | | | |
| TOTAL ASSESSMENT FEE | | 3,700 | | | | | | |





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ELECTRICAL & ELECTRONICS ENGINEERING DEPARTMENT KNEC BASED COURSE UNITS FOR TERM 1 2025

| TERM 1 2025 | | | | | |
|----------------------------------|-----------------------------|-----------------------------------|-----------------------------|----------------------------|-----------------------------|
| DEE 22M(DIPLOMA MOD.3 POWER) | | DEE 23 M(DIPLOMA MOD.2 POWER) | | CEE 23M(CERTIFICATE MOD.2) | |
| 1. POWER SYSTEM | EXAM COST AS PER KNEC RATES | 1. MATHS | EXAM COST AS PER KNEC RATES | 2. WOM | EXAM COST AS PER KNEC RATES |
| 2. MATHS | | 2.DIGITAL &ANALOG ELECTRONICS | | 3. MATHS | |
| 3. . IOM | | 3..EDD &CIRCUIT ANALYSIS | | 4.EPRI2/MICRO ELECT./MFD | |
| 4.MICRO CONTROLLER &MICRO PRO | | 4. EPGT &BSP | | 5. E-TECH2/EDET,IMC | |
| 5 TRADE PROJECT | | 5.CONTROL SYSTEM &PLC | | 6.TRADE PRACTICE | |
| 6 MACHINES | | | | | |
| TERM1 2025 | | | | | |
| DEE 22S(DIPLOMA MOD 3 POWER) | | DTE 22S(DIPLOMA MOD 3 TELCOM) | | | |
| 1. POWER SYSTEM | EXAM COST AS PER KNEC RATES | 1.MATHS | EXAM COST AS PER KNEC RATES | | |
| 2. MATHS | | 2.MICRO CONTOLLER& MICRO P | | | |
| 3. . IOM & ENGINEERING CONTRACTS | | 3.IOM & ENGINEERING CONTRACTS | | | |
| 4.MICRO CONTROLLER &MICRO PRO | | 4.DATA COMMUNICATION & NETWORKING | | | |
| 5 TRADE PROJECT | | 5.EFT &COMMUNICATION SYSTEMS | | | |
| 6 MACHINES | | 6. TRADE PROJECT | | | |

PREPARED BY

P.MAINGI

HOD ELECTRICAL & ELECTRONICS



SKILLS FOR EMPOWERMENT