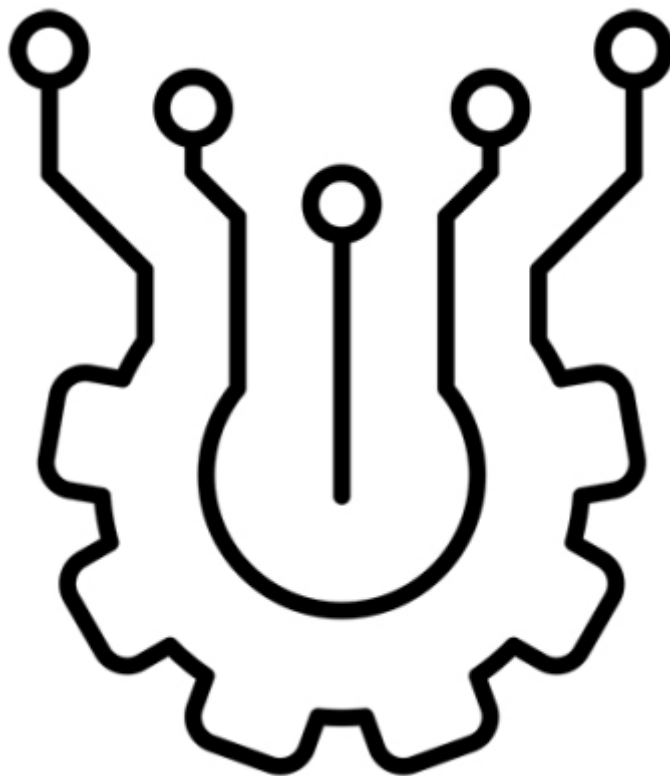


MECHATRONICS & OTHER PROGRAMMES

For those in or preparing to enter
the technical engineering workplace.



INSTITUTE *for* INDUSTRIAL TECHNOLOGY





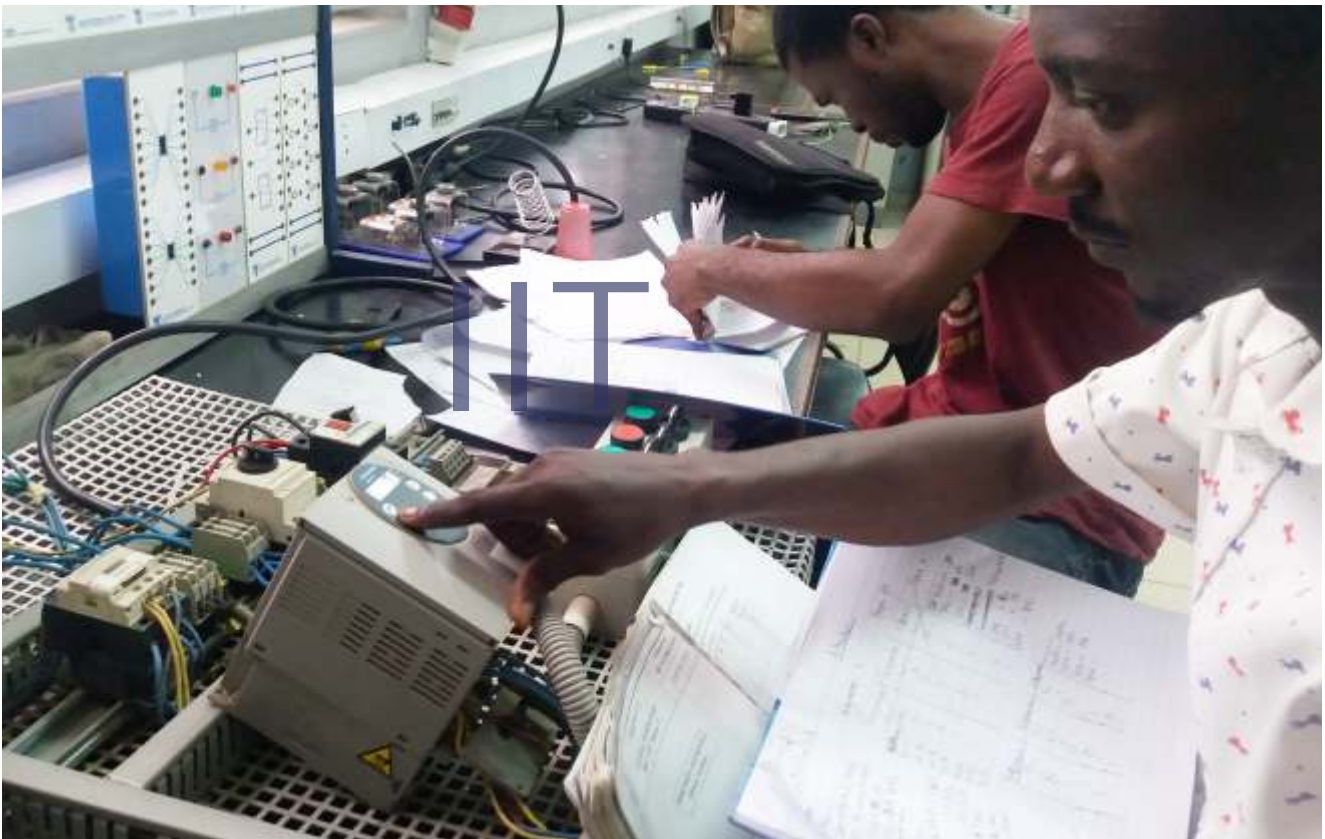
ABOUT IIT

A Project of African Development Foundation (ADF)

Technical Vocational Education and Training (TVET) Institution

Transforming Lives...

- Conducive learning environment
- Standard instructor to trainee ratio
- Over 19 years of quality service delivery
- Well equipped labs, workshops, and e-learning centre
- International standards, local relevance
- Combination of In-School and In-Company training
- Tutorial/counselling system
- Sporting facilities
- 70% practical content
- Quality technical education with strong emphasis on work ethics and values

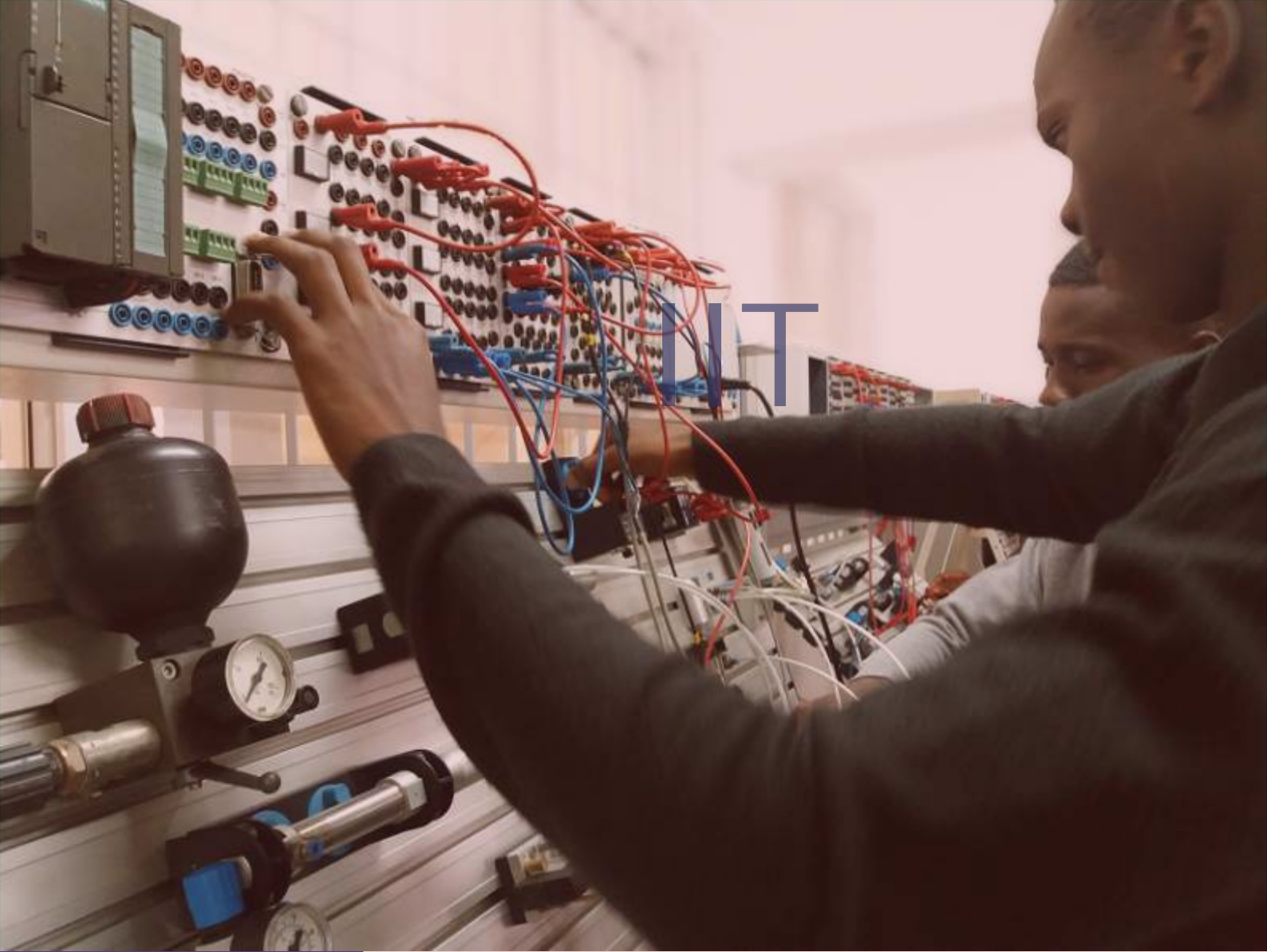


IIT programmes are multi-skilling technical programmes aimed at impacting relevant technical skills in a flexible and intense manner to participants which would enable them improve their work productivity and in turn become relevant to the industry. It is also aimed at preparing participants to fit seamlessly into various industrial or engineering services work environments.

Objectives:

The programmes aim at

- Impacting key technical knowledge
- Acquiring and developing
 - o Troubleshooting skills
 - o Installation and commissioning skills
 - o Maintenance skills
 - o Fabrication skills
 - o Technical ICT skills
- Work values and personal leadership skills.



Intense and practical learning...

MECHATRONICS



Work Values & Ethics
CAD & Blueprint Reading
Pumps and Compressors
Mechanical Measurement and Fitting
Mechanical Drives Maintenance & Lubrication
Fundamentals of Electrics
Industrial Motor Controls & Maintenance
Fundamentals of Pneumatics Automation Systems
Electro-Pneumatics Controls
Fundamentals of Industrial Hydraulics
Sensor Technology
Fundamentals of Programmable Logic Controls (PLCs)
Advance PLC
Industrial Communication
Process Control and Instrumentation
Process Control and Visualization
Power Electronics
Variable Speed Drives

The Mechatronics programme in IIT is aimed at equipping participants with essential knowledge and hands-on, up-to-date engineering skills required by employers in the Breweries, Food and Beverages, Petrochemicals, Oil and Gas, Engineering services and Manufacturing sectors

The course modules cover analyses Commissioning and Programming of networked factory and process automation systems. The participants will use modern state-of-the-art learning equipment at the Institute.

Admission is on going

MECHATRONICS (FT)



The full-time IIT Mechatronics programme has a duration of 6-7 months. This programme runs on weekdays from 2pm - 6pm.

The programme is structured to equip individuals in or about to enter the technical engineering workspace. Preferable candidates for this programme are graduates of OND, HND, or BSc programmes or workers in technical engineering fields

To be admitted into the programme, the candidate must have numeracy skills, literacy skills and a good understanding of physics. This will be tested in the IIT Mechatronics entrance assessment.

Admitted participants are confirmed to start the programme after the payment of the acceptance fee. The maximum class size for each programme is 24. The academic policy of these programmes shall follow the IIT's standard graduate/professional programme policy.

Fees can be paid in not more than two installments.

For enquiries, kindly contact the school.

MECHATRONICS (PT)



The Modular or part-time IIT Mechatronics programme has a duration of 12 months. This programme runs every Friday from 2pm - 6pm. A full week every quarter (3 months) will be required.

The programme is structured to equip individuals in or about to enter the technical engineering workspace. Preferable candidates for this programme are graduates of OND, HND, or BSc programmes or workers in technical engineering fields.

To be admitted into the programme, the candidate must have numeracy skills, literacy skills and a good understanding of physics. This will be tested in the IIT Mechatronics entrance assessment.

Admitted participants are confirmed to start the programme after the payment of the acceptance fee. The maximum class size for each programme is 24. The academic policy of these programmes shall follow the IIT's standard graduate/professional programme policy.

Fees can be paid in not more than three installments.

For enquiries, kindly contact the school.



IIT

Offering value, for over 19 years...

ELECTRICAL CONTROL



Work Values & Ethics

Blueprint Reading

Mechanical Measurement and Fitting

Fundamentals of Electrics

Industrial Motor Controls & Maintenance

Power Electronics

Variable Speed Drives (VSDs)

Industrial Pneumatics, Sensors & Automation Systems

Fundamentals of Programmable Logic Controls (PLCs)

An Electrical Control Technician is a multi-skilled service technician with skills in areas such as electrical and automation trades. This technician can readily fit into various technical setups and serve as field technician. They can also be easily trained and modified to engage clients of a specialized technical setup.

Electrical Control technicians have good electrical knowledge with basic fabrication skills. They are also able to troubleshoot, install, program, commission and maintain machineries and erumpent of various degrees.

Admission is on going

ELECTRICAL CONTROL



The Electrical Control programme has a duration of 3 months. This programme runs on weekdays from 2pm - 6pm.

The programme is structured to equip individuals in or about to enter the technical engineering workspace. Preferable candidates for this programme are graduates of OND, HND, or BSc programmes or workers in technical engineering fields

To be admitted into the programme, the candidate must have numeracy skills, literacy skills and a good understanding of physics. This will be tested in the IIT Mechatronics entrance assessment.

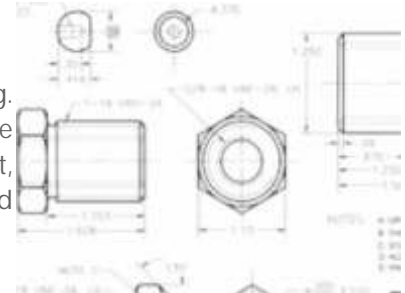
Admitted participants are confirmed to start the programme after the payment of the acceptance fee. The maximum class size for each programme is 24. The academic policy of these programmes shall follow the IIT's standard graduate/professional programme policy.

Fees can be paid in not more than two installments.

For enquiries, kindly contact the school.

ENGINEERING DRAWING/BLEUPRINT READING

This course covers the basics of engineering drawing and blueprint reading. Course is designed for trainees with little or no drafting background. Course content includes careers in drafting/engineering, use of drafting equipment, drafting techniques, lettering, geometric construction, multi-view and isometric drawings, sectional and auxiliary views, and basic dimensioning...



MECHANICAL MEASUREMENTS & FITTINGS

This course deals with the selection, proper use, and maintenance of mechanical measuring instruments. Care in the handling of the instruments is emphasized. The use of measuring templates is also emphasized. Also, it provides trainees with the basic skills on bench work. Strict compliance to correct work procedures and techniques as well as safety practice is given strong emphasis...



FUNDAMENTALS OF ELECTRICS

The course is designed to provide knowledge of the fundamental principles, concept and terminology of electrical technology. It provides the background for understanding and application of concepts in electrical trade including electrical installations, measuring instruments, signal processing, power transfer and energy conversion process..



ELECTROPNEUMATIC CONTROLS

This course deals with the control of pneumatics actuators using pneumatics and electrical sensing and switching devices. Electrical principles are covered at a basic level, but some previous knowledge of pneumatic equipment is required. Both functions and operation of switches, relays, and solenoid operated valves and proximity sensors are included and trainees put theory into practice through practical hands-on exercises...



PUMPS AND COMPRESSORS

This subject deals with the study of the principles, operation and maintenance of pumps and compressors. Basic fluid principles of hydraulic, centrifugal pumps, rotary pumps, reciprocating and special service pumps as well as their parts and auxiliary devices. It also deals with the study of compressed air fundamentals, compressor accessories, principles of dismantling and assembling of machines mentioned above...



POWER ELECTRONICS

This course is designed to teach trainees about electric power control, regulation and conversion (ac to dc, dc to ac, and dc to dc) by the use of semiconductor devices and electronic circuits. It also deals with the use of electronic techniques for control of electric motor operational characteristics (speed, torque, etc.)...



For payment details, programme start dates,
and interview schedules kindly contact:

IIT Admissions Office:

09035616248

admission@iit.edu.ng

OUTLINE

ELECTRICAL MOTOR OPERATION AND MAINTENANCE

This course deals with the principles of operation, construction, circuit connection, and characteristics of AC motor controllers. Starting with fundamentals, it proceeds step by step, through all the basic kinds of starters the participant-trainee will encounter in the industry. It explains what kinds of controls are available, how they operate, where they are used and why they are designed to operate as they do...



VARIABLE SPEED DRIVES

This course also provides trainees with fundamental working principles of variable speed drives. Using practical hands-on exercises on VSD, the trainees learn how to select, install, program, maintain, or troubleshoot variable speed drives. Trainees will also become familiar with the drive's Human Machine Interface (HMI), which allows programmers, maintainers, and trouble-shooters access information stored within the drive...



WORK VALUES - PRINCIPLES OF EFFECTIVENESS

Personal effectiveness has long been recognized as the foundation for interpersonal and organizational effectiveness. In this module, the trainees will be exposed to the 7 Habits of highly effective people and 5S methodology. They will be encouraged to incorporate the 7 Habits and 5S methodology into their personal, family, social and professional life...



COMPUTER AIDED DRAFTING

This course is designed to prepare to student who possess manual electrical/mechanical drafting skills with entry level skills in computer assisted drafting. Upon successful completion of this course the student will have a working knowledge of how to properly use a CAD system and how it applies to the industry. Practical aspects include all drawing and editing features of the AutoCAD computer graphics software...



FUNDAMENTALS OF INDUSTRIAL HYDRAULICS



This course deals with the fundamental concepts related to the control of hydraulics equipment. It covers the knowledge of the physical laws and relevant standards and units, the technical terms and their definitions, as well as the design and principles of operation of the different basic hydraulics control elements. Laboratory practice includes simulations of hydraulics control circuits...



ADVANCED PROGRAMMABLE LOGIC CONTROL (ADVANCED PLC)

Designed to further develop trainees' programming skills, the course aims to improve their ability to convert control tasks to fully operational systems. The course continues on from the 'Basics to PLCs' course, with the development of more complex control problems. Additional functions such as timers and counters are used with sequential controls, and conditional programs plus manual, auto and reset control functions. A strong emphasis is placed on safety and appropriate work practices throughout the course, especially during the practical sessions...



 admission@iit.edu.ng 09035616248 www.iit.edu.ng

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