

## NITEC IN TECHNOLOGY - AUTOMOTIVE TECHNOLOGY

Course Code: NTATV / Plan Code: NTATV

### COURSE OBJECTIVE

This course provides students with the skills and knowledge in troubleshooting, servicing, repairing and maintaining passenger and commercial vehicles.

### COURSE STRUCTURE

S/N	Module Details	Module Code	Module Objectives
M1	<b>Automotive Principles &amp; Systems</b> 30 hrs (T) 90 hrs (P) Credits: 4 Prerequisite: Nil	AT2001FP	On completion of the module, students should be able to observe workplace health and safety, extract technical information, select and use lifting equipment and hand tools to disassemble and reassemble automotive systems and components, check automotive components dimensions and basic electrical readings as well as the proper disposal of automotive wastes.
		Equivalent Code AT2101FP	
M2	<b>Basic Chassis &amp; Drivetrain Technology</b> 45 hrs (T) 75 hrs (P) Credits: 7 Prerequisite: Nil	AT2002FP	On completion of the module, students should be able to service and replace automotive drivetrain and chassis components like manual transmission clutch and brakes on a vehicle.
		Equivalent Code AT2102FP	
M3	<b>Basic Engine Technology</b> 30 hrs (T) 90 hrs (P) Credits: 4 Prerequisite: Nil	AT2003FP	On completion of the module, students should be able to service engine system components of spark ignition and compression ignition engines on a vehicle.
		Equivalent Code AT2103FP	
M4	<b>Autotronics</b> 45 hrs (T) 75 hrs (P) Credits: 7 Prerequisite: Nil	AT2004FP	On completion of the module, students should be able to interpret, measure, diagnose and rectify faults in vehicle electrical systems, electronic circuits and air-conditioning systems on a vehicle.
		Equivalent Code AT2104FP	
M5	<b>Chassis &amp; Drivetrain Technology</b> 45 hrs (T) 75 hrs (P) Credits: 8 Prerequisite: Advised to complete AT2002FP	AT3001FP	On completion of the module, students should be able to troubleshoot and rectify faults in automotive chassis and drivetrain systems components.
		Equivalent Code AT3102FP	
M6	<b>Engine Technology &amp; Powertrain Management</b> 45 hrs (T) 75 hrs (P) Credits: 8 Prerequisite: Advised to complete AT2003FP	AT3002FP	On completion of the module, students should be able to conduct system fault finding with the use of diagnostic tools & equipment and rectify the system faults in engine electrical, fuel injection pump, lubrication and cooling, engine mechanical, engine management, emission control, forced air induction system on a vehicle.
		Equivalent Code AT3103FP	

Abbreviations: T - Theory, P - Practical

### CREDITS FOR CERTIFICATION

Total of 38 credits from successful completion of 6 modules.

### OTHER ENTRY REQUIREMENTS

- Passed /SC in Mechanical Servicing

### VENUE

ITE College West

Note:

- 1) Applicant must be free from colour appreciation deficiency.
- 2) The training schedule of lessons is subject to change.
- 3) Depending on the demand, not all the modules in the CET *Nitec* in Technology courses will be offered in each intake. Where the modules are offered and there is insufficient enrolment, the classes will be cancelled and a full refund will be given to the affected students.