



NATIONAL BOARD FOR TECHNICAL EDUCATION

NATIONAL DIPLOMA

FORENSIC TECHNOLOGY

CURRICULUM AND COURSE SPECIFICATIONS

PLOT B, BIDA ROAD, P.M.B.2239, KADUNA –NIGERIA

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FOREWORD

Nigeria is facing a shortage of skilled professionals in the field of Forensic Technology. This National Diploma Curriculum represents a vital step towards addressing that need. This Curriculum is designed to empower training institutions to cultivate a new generation of ethical, career-focused technicians.

This curriculum establishes the essential foundation for producing highly competent Forensic Technology technicians. I am confident that its effective implementation, coupled with adequate resources, from dedicated and qualified instructors to appropriate training materials and cutting-edge equipment and the enrolment of capable students, will translate into a skilled workforce ready to contribute meaningfully to the sector.

The development of this curriculum has been a collaborative effort, and I extend my sincere gratitude to the dedicated committee members and expert resource persons whose invaluable contributions during the development workshops made this achievement possible. Their expertise and commitment have been instrumental in shaping this vital resource.

It is with great anticipation that I look forward to the successful implementation of this curriculum, which holds the promise of a brighter future for Forensic Technology in Nigeria.

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TABLE OF CONTENT

CONTENTS

FORWARD	2
TABLE OF CONTENT	3
GENERAL INFORMATION	5
CURRICULUM TABLE	12
YEAR ONE SEMESTER ONE:	
Introduction to Forensic Technology	16
Introduction to Crime Scene Management	20
Forensic Psychology	25
Crime and Society	29
YEAR ONE SEMESTER TWO:	
Crime Scene Management	35
Forensic Anthropology I	40
Introduction to Digital Forensics	44
Introduction to Fingerprints	51
Forensic Biology	58
Forensic Chemistry	63
YEAR TWO SEMESTER ONE:	
Forensic Anthropology II	68
Forensic Pathology	71
Forensic Ballistics	77
Documentation Examination I	84
Instrumentation and Investigation Technology	90
Research Methodology in Forensic	95

YEAR TWO SEMESTER TWO:

Documentation Examination II	100
Legal Framework in Forensics	105
Economic Offences	112
Forensic Handwriting	119
Forensic Accounting	123
PRACTICAL MANUAL	130
LIST OF EQUIPMENT	138
LIST OF PARTICIPANTS	142

NATIONAL BOARD FOR TECHNICAL EDUCATION

GENERAL INFORMATION

1.0 PROGRAMME NOMENCLATURE

National Diploma (ND) Forensic Technology

2.0 PROGRAMME GOAL

The goal of this curriculum is to train competent Forensic technicians to meet present and emerging forensic manpower need

3.0 OBJECTIVES OF THE PROGRAMME

The objectives of the programme on completion are to:

- Assist in tackling economic offenses.
- Support in forensic fingerprints analysis.
- Assist in conducting forensic accounting to investigate financial crimes.
- Support in basic Anthropological measurements in forensic investigation
- Support in the identifications and analysis of human remains in forensic investigation
- Support in biological investigation of forensic cases
- Support in chemical analytical techniques to forensic cases
- Support in forensic handwriting examination.
- Support in the conduct of pathological investigations.
- Assist in the conduct of forensic psychological evaluation
- Support in forensic ballistics investigations.
- Use instruments to support in conducting forensic criminal investigation appropriately
- Assist in managing crime scenes effectively
- Assist in conducting forensic investigations on digital devices.
- Assist to create awareness on the effect of crime in the society
- Support in the conduct of forensic research using scientific and systematic approaches.

- Assist in providing legal support in forensic investigations.
- Support in forensic document examination
- Support in the provision of private forensic services

4.0 ENTRY REQUIREMENTS

This programme is to train competent Forensic technicians at the middle level manpower. It entails exposing the students to basic knowledge and the practices of Forensic Technology.

- a. A minimum score in the Unified Tertiary Matriculation Examination (UTME) as stipulated by JAMB
- b. Prospective students for this programme must possess a minimum of five (5) credits passes at Senior Secondary School Certificate and other approved equivalent O-Level Certificates (NECO, NABTEB or GCE) in the following subjects: English, Mathematics, and any three from Chemistry, Biology, Economics or Accounting and ICT at not more than two sittings.

5.0 PROGRAMME STRUCTURE/DURATION

The ND Forensic Technology programme is structured to last for two (2) years (4 semesters) of classroom work, laboratory posting and field work in accredited security and tertiary health facilities.

The duration also incorporates 3-4 months Supervised Field Experience (SUPFE) which shall take place at the end of the first semester of the first year. Each semester shall be for 17 weeks, made up of as follows:

- 15 contact weeks of teaching (i.e. lectures and practical sessions etc.) and
- 2 weeks for registration and examinations

The National Diploma is a two-year terminal academic programme.

6.0 CURRICULUM

The curriculum of all ND programmes consists of four main components. These are:

- i. Professional/Specialized Courses
- ii. Basic/Foundation Courses
- iii. General Studies/Education
- iv. SIWES

7.0 STAFFING REQUIREMENTS

7.1 Core Teaching Staff

A minimum of five (5) lecturers are required for one stream (60 students). Core teaching staff should possess at least a B.Sc. in Forensic Science, Chemistry, Biology, Computer Science and Accountancy.

7.2 Technical Staff

Technical staff should possess at least Professional Certificates, or an ND in Forensic Technology, Computer Science, Forensic Science and Forensic Accounting.

7.3 Headship of the Department

The Head of Department shall;

Possess not less than a Master's degree in Forensic Science, Forensic Chemistry, Forensic Biology, Digital Forensic and Forensic Accounting.

- Be a professional Member of at least one of Chattered Institute of Forensic and Certified Fraud Investigators of Nigeria, (CIFIIN), Computer Forensic Institute of Nigeria (CFIN) or, Chattered Institute of Digital Forensic of Nigeria (CIDFON)
- Be of the rank of Senior Lecturer or above

7.4 Career/Academic Prospects

The diplomate would work as Forensic Technician. They can also proceed to University or Polytechnic

8.0 CERTIFICATION

A diplomate of this programme shall be awarded ND in Forensic Technology.

9.0 CONDITIONS FOR THE AWARD OF ND CERTIFICATE

Institutions offering accredited programme will award National Diploma to candidates who successfully completed the programme after passing the prescribed course work, examinations and ND research project.

10.0 GRADING SYSTEM

10.1 National Diploma shall be awarded in four classes:

Distinction	-	CGPA of 3.50 and above
Upper Credit	-	CGPA of 3.0 - 3.49
Lower Credit	-	CGPA of 2.50 - 2.99
Pass	-	CGPA of 2.00 - 2.49

10.2 Grading of Courses:

Courses shall be graded as follows:

MARKED RANGE	LETTER GRADE GRADE	WEIGHTING
75% and above	A	4.00
70% – 74%	AB	3.50
65% – 69%	B	3.25
60% – 64%	BC	3.00
55% – 59%	C	2.75
50% – 54%	CD	2.50
45% – 49%	D	2.25
40% – 44%	E	2.00
Below 40%	F	0.0

11.0 GUIDANCE NOTES FOR TEACHERS

11.1 The new curriculum is drawn in unit courses. This is in keeping with the provisions of the National Policy on Education which stress the need to introduce the semester credit units which will enable a student who so wishes to transfer the units already completed in an institution of similar standard from which he/she is transferring.

11.2 In designing the units, the principle of the modular system by product has been adopted, and each of the professional modules, when completed provides the student with technician operative skills, which can be used for employment purposes; self - **and otherwise**.

11.3 As the success of the credit unit system depends on the articulation of programmes between the institutions and industry, the curriculum content has been written in behavioral objectives, so that it is clear to all, the expected performance of the student who successfully completed some of the courses or the diplomates of the programme. This is a slight departure in the presentation of the performance-based curriculum which

requires the conditions under which the performance is expected to be carried out and the criteria for the acceptable levels of performance. It is a deliberate attempt to further involve the staff of the department teaching the programme to write their own curriculum stating the conditions existing in their institution under which performance can take place and to follow that with the criteria for determining an **acceptable** level of performance.

Departmental submission on the final curriculum may be vetted by the Academic Board of the Institution. The aim is to continue to see to it that a solid internal evaluation system exists in each institution for ensuring minimum standard and quality of education in the programmes offered throughout the TVET Institution system.

11.4 The teaching of the theory and practical work should, as much as possible, be integrated. Practical exercises, especially those in professional courses and laboratory work should not be taught in isolation from the theory. For each course, there should be a balance of theory to practical in the ratio of 50:50 or 60:40 or the reverse.

12.0 PRACTICAL LOGBOOK

A personal Logbook to be kept by each student shall contain all day-to-day, weekly summary and semester summary of all the practical activities from day one to the end of the programme. This is to be checked, marked, endorsed and recorded by the lecturers concerned at the end of every week.

13.0 FINAL PROJECT

Final year students in this programme are expected to carry out a project work. This could be on individual basis or group work of not more than five students per group, but reporting must be undertaken individually. The project should, as much as possible be related to the programme discipline. Project reports should be well presented and should be properly supervised. The department should make its own arrangement of schedules for project work.

14.0 GUIDELINES ON SIWES PROGRAMME

For the smooth operation of the SIWES the following guidelines shall apply.

14.1 Grading of SIWES

To ensure uniformity of grading scales, the institution should ensure that the uniform grading of students work, which has been agreed to by all TVET Institutions is adopted.

14.2 The Institution Based Supervisor

The institution-based supervisor should initial the log book during each visit. This will enable him to check and determine to what extent the objectives of the scheme are being met and to assist students having any problems regarding the specific assignments given to them by their industry-based supervisor.

14.3 Frequency of Visit

Institution should ensure that students placed on attachment are visited within one month of their placement. Other visits shall be arranged so that:

- i. There is another visit six weeks after the first visit; and
- ii. A final visit in the last month of the attachment.

14.4 Responsibility for Placement of Students

- a. Institution offering the ND programme shall arrange to place the students in industry. By the end of second semester of the first academic session, six copies of the master list showing where each student has been placed shall be submitted to the Executive Secretary, NBTE, who shall, in turn authenticate the list and forward it to the Industrial Training Fund, Jos.
- b. The Placement Officer should discuss and agree with industry on the following:

- i. A task inventory of what the student is expected to experience during the period of attachment. It may be wise to adopt the one already approved for each field by the industry-based supervisor.
- ii. The evaluation of the student by the industry-based supervisor and the institution-based supervisor.
- iii. The final grading of the student during the period of attachment should be weighted more on the evaluation by industry-based supervisor.

14.5 Evaluation of Students during the SIWES

In the evaluation of the student, cognizance should be taken of the following items:

- i. Punctuality
- ii. Attendance
- iii. General Attitude to Work
- iv. Respect for authority
- v. Interest in the field/technical area
- vi. Technical competence as a potential technician in his field.
- vii. Team work

14.6 Stipend for Students in SIWES

The rate of stipend payable shall be determined from time to time by the Federal Government after due consultation with the Federal Ministry of Education, the Industrial Training Fund and the National Board for Technical Education (NBTE).

14.7 SIWES as a Component of the Curriculum

The completion of SIWES is important in the final determination of whether the student is successful in the programme or not. Failure in SIWES is an indication that the student has not shown sufficient interest in the field or has no potential to become a skilled technician in the field. The SIWES should be graded on a *'Fail or Pass'* basis. Where a student has satisfied all other requirements but failed SIWES

he may only be allowed to repeat another four months SIWES at his/her own expense.

CURRICULUM TABLE

YEAR I SEMESTER I

COURSE CODE	COURSE TITLE	L	P	CU	CH
GNS 101	Use of English I	2	-	2	2
COM 111	Introduction to Computing	2	1	3	3
GNS 111	Citizenship Education I	2	-	2	2
STB 101	General Biology I	1	1	2	2
STC 101	General Chemistry I	1	1	2	2
FRT 111	Introduction to Forensic Technology	2	-	2	2
FRT 112	Introduction to Crime Scene Management	1	1	2	2
FRT 113	Forensic Psychology	2	-	2	2
FRT 114	Crime and Society	2	-	2	2
MSQ	Mandatory Skills Qualification	-	-	-	2
TOTAL		15	4	19	21

YEAR I SEMESTER II

COURSE CODE	COURSE TITLE	L	P	CU	CH
GNS 102	Communication in English I	2	-	2	2
GNS 121	Citizenship Education II	2	-	2	2
FRT 121	Crime Scene Management	1	2	3	3
FRT 122	Forensic Anthropology I	2	1	3	3
FRT 123	Introduction to Digital Forensics	1	2	3	3
FRT 124	Introduction to Fingerprint	1	1	2	2
FRT 125	Forensic Biology	1	2	3	3
FRT 126	Forensic Chemistry	1	2	3	3
ENT 126	Introduction to Entrepreneurship I	2	1	3	3
MSQ	Mandatory Skills Qualification	-	-	-	2
	SIWES	-	-	3	3
TOTAL		13	11	27	29

YEAR II SEMESTER I

COURSE CODE	COURSE TITLE	L	P	CU	CH
GNS 201	Use of English II	2	-	2	2
FRT 211	Forensic Anthropology II	2	-	2	2
FRT 212	Forensic Pathology	2	1	3	3
FRT 213	Forensic Ballistics	1	1	2	2
FRT 214	Document Examination I	1	1	2	2
FRT 215	Instrumentation and Investigation Technique	1	1	2	2
FRT 216	Research Methodology in Forensics	2	-	2	2
ENT 216	Introduction to Entrepreneurship II	2	1	3	3
TOTAL		13	3	18	18

YEAR II SEMESTER II

COURSE CODE	COURSE TITLE	L	P	CU	CH
FRT 221	Document Examination II	2	1	3	3
FRT 222	Legal Framework in Forensics	1	1	2	2
FRT 223	Economic Offences	2	-	2	2
FRT 224	Forensic Handwriting	1	2	3	3
FRT 225	Forensic Accounting	2	1	3	3
FRT 226	Project	-	-	4	4
TOTAL		8	5	17	17

YEAR I SEMESTER I

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course: Introduction to Forensic Technology	Course Code: FRT 111	Contact Hours: 2
	Credit Unit: 2	Theoretical: 2
Year: I Semester: I	Pre-requisite:	Practical: 0
GOAL: This course is designed to provide students with the basic knowledge of Forensic Technology (FRT)		
GENERAL OBJECTIVES: On completion of this course, the students should be able to: 1.0 Understand the principles of Forensic Technology. 2.0 Understand the techniques used in Forensic 3.0 Know legal and ethical considerations involved in forensic investigations		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Introduction to Forensic Technology		Course Code: FRT 111		Contact Hours: 2		
		Credit Unit: 2		Theoretical: 2		
Year: I		Semester: I		Pre-requisite:		Practical: 0
COURSE SPECIFICATION: THEORETICAL						
GOAL: This course is designed to provide students with the basic knowledge of Forensic Technology (FRT)						
General Objective 1.0: Understand the principles of Forensic Technology.						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-4	1.1 Define Forensic	Explain Forensic	Textbooks			
	1.2 Define forensic science	Explain forensic science	Charts			
	1.3 Explain the forensic application in a scene	Explain the forensic application in a scene	Computer			
	1.4 Explain types of forensics	Explain types of forensics	Journals			
	1.5 Narrate the historical background of Forensic Technology	Explain the historical background of Forensic Technology	Projector			
	1.6 State the basic principles of Forensic Technology	Explain the basic principles of Forensic Technology	Internet resources			
			White board			
			Marker			

	1.7 State significance of Forensic Technology	Explain significance of Forensic Technology				
	1.8 Explain the roles of a forensic expert	Explain the roles of a forensic expert				
General Objective 2.0: Understand the techniques used in Forensic						
5-10	2.1 Define forensic samples	Explain forensic samples	Textbooks Charts			
	2.2 Differentiate between forensic sample and forensic evidence	Explain the differences between forensic sample and forensic evidence	Computer Journals Projector Internet resources			
	2.3 Explain types of forensic evidence	Explain types of forensic evidence	White board Marker			
	2.4 Explain how forensic evidence are utilized	Explain how forensic evidence are utilized				
	2.5 Explain the techniques used in different areas of forensic	Explain the techniques used in different areas of forensic				
General Objective 3.0: Know legal and ethical considerations involved in forensic investigations						
11-15	3.1 Describe the ethical issues surrounding the collection and use of forensic sample and evidence in criminal investigations	Explain the ethical issues surrounding the collection and use of forensic sample and evidence in criminal investigations	Textbooks Charts Computer Journals Projector Internet resources			
	3.2 Explain the legal issues surrounding the collection and use of	Explain the legal issues surrounding the collection and use of	White board Marker			

	forensic sample and evidence in criminal investigations	forensic sample and evidence in criminal investigations				
	3.3 List the regulatory bodies governing forensic	Explain the regulatory bodies governing forensic				

EVALUATION: C.A: 30%
EXAMINATION: 70%

NATIONAL BOARD FOR TECHNICAL EDUCATION

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
COURSE TITLE: Introduction To Crime Scene Management	Course Code: FRT 112	Contact Hours: 2
	Credit Unit: 2	Theoretical: 1
Year: I Semester: I	Pre-requisite:	Practical: 1
GOAL: This course is designed to provide students with the basic knowledge and skills for effective Crime Scene Management		
GENERAL OBJECTIVES: On completion of this course, the students should be able to:		
1.0 Understand the concept of Crime Scene Management		
2.0 Understand Crime Scene Reconstruction		
3.0 Know the Legal aspects of Crime Scene Investigation		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
COURSE: Introduction To Crime Scene Management		Course Code: FRT 112		Contact Hours: 2		
		Credit Unit: 2		Theoretical: 1		
Year: I Semester: I		Pre-requisite:		Practical: 1		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to provide students with the basic knowledge and skills for effective Crime Scene Management						
General Objective 1.0: Understand the concept of Crime Scene Management						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-5	1.1 Define: <ul style="list-style-type: none"> • Crime • Crime Scene • Crime Scene Management • Crime Scene Investigation 1.2 List types of crime scene: <ul style="list-style-type: none"> • Conventional • Radiological • Chemical and biological 1.3 Explain the roles and responsibilities of Crime Scene professionals	Explain: <ul style="list-style-type: none"> • Crime • Crime Scene • Crime Scene Management • Crime Scene Investigation Explain types of crime scene: <ul style="list-style-type: none"> • Conventional • Radiological • Chemical and biological Explain the roles and responsibilities of Crime Scene professionals	Textbooks Journals Whiteboard Marker Internet Resources Computer Projector	Identify physical, biological, digital sample and evidence Collect sample and evidence and preserve with proper packaging and labelling methods Apply safety protocols for handling sample and evidence, including the use of Proper Personal Protective Equipment	Guide students to: Identify physical, biological, digital sample and evidence Collect sample and evidence and preserve with proper packaging and labelling methods Apply safety protocols for handling sample and evidence, including the use of Proper Personal Protective	Proper-PPE Camera Warrant Sample and Evidence Collection bag Faraday Bag Tags Labels Cordoning tape

	<p>1.4 Explain Crime Scene Management:</p> <ul style="list-style-type: none"> • Scene preservation • Documentation techniques (photography, sketches, etc.) <p>1.5 Explain Sample and Evidence collection, packaging and storage:</p> <ul style="list-style-type: none"> • Finger print • Digital • Biological etc. <p>1.6 Explain chain of custody</p> <p>1.7 Explain Briefing and Debriefing</p>	<p>Explain Crime Scene Management</p> <ul style="list-style-type: none"> • Scene preservation • Documentation techniques (photography, sketches, etc.) <p>Explain Sample and Evidence collection, packaging and storage:</p> <ul style="list-style-type: none"> • Finger print • Digital • Biological etc. <p>Explain chain of custody</p> <p>Explain Briefing and Debriefing</p>		<p>(P-PPE). Briefing and Debriefing before and after the crime scene investigation</p>	<p>Equipment (P-PPE). Briefing and Debriefing before and after the crime scene investigation</p>	
General Objective 2.0: Understand Crime Scene Reconstruction						
6-10	<p>2.1 Explain Crime Scene Reconstruction</p> <p>2.2 Explain the methods of Reconstruction</p> <p>2.3 Explain the importance and roles of various</p>	<p>Explain Crime Scene Reconstruction</p> <p>Explain the methods of Reconstruction</p> <p>Explain the importance and roles of various</p>	<p>Textbooks Journals Whiteboard Marker Internet Resources Computer Projector</p>	<p>Identify the methods of reconstruction Scene Reconstruction</p> <p>Identify a reconstructed crime scene with Forensic tools.</p>	<p>Guide students to: Identify the methods of reconstruction Scene Reconstruction Identify a reconstructed crime</p>	<p>3D modelling Digital mapping Software for simulations and</p>

	professionals in reconstruction 2.4 Explain ethics and professionalism in crime scene reconstruction	professionals in reconstruction Explain ethics and professionalism in crime scene reconstruction			scene with Forensic tools.	visualization. Field equipment for sample and evidence gathering (laser scanning, drones) Proper-PPE
General Objective 3.0: Know the Legal aspects of Crime Scene Management						
11-15	3.1 Define Legal system (civil, criminal law): <ul style="list-style-type: none"> • Role of law enforcement in the judicial process • The structure of courts and legal proceedings 3.2 Explain Legal framework for crime scene investigation: <ul style="list-style-type: none"> • Relevant laws and statutes governing investigations 	Explain Legal system (civil, criminal law): <ul style="list-style-type: none"> • Role of law enforcement in the judicial process • The structure of courts and legal proceedings Explain Legal framework for crime scene investigation: <ul style="list-style-type: none"> • Relevant laws and statutes governing investigations 	Textbooks Journals Whiteboard Marker Internet Resources Computer Projector			

	<ul style="list-style-type: none"> Legal definitions of evidence and admissibility 	<ul style="list-style-type: none"> Legal definitions of evidence and admissibility 				
	3.3 Explain chain of custody	Explain chain of custody				
	3.4 Explain importance of chain of custody in investigations	Explain importance of chain of custody in investigations				
	3.5 Explain procedure for collecting, preserving and documenting sample and evidence	Explain procedure for collecting, preserving and documenting evidences				
	3.6 Explain the Consequences of chain of custody violations	Explain the Consequences of chain of custody violations				

EVALUATION: C.A: 40%
EXAMINATION: 60%

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PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Psychology	Course Code: FRT 113	Contact Hours: 2
	Credit Unit: 2	Theoretical: 2
Year: I Semester: I	Pre-requisite:	Practical: 0
GOAL: This course is designed to provide students with basic knowledge of forensic psychology		
GENERAL OBJECTIVES: On completion of this course, the students should be able to: <ul style="list-style-type: none"> 1.0 Understand the concept of Forensic Psychology 2.0 Understand Criminal Behaviour and Profiling 3.0 Understand Interview and Interrogation Techniques 4.0 Understand contemporary Issues in Forensic Psychology 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Psychology		Course Code: FRT 113		Contact Hours: 2		
		Credit Unit: 2		Theoretical: 2		
Year: I	Semester: I	Pre-requisite:		Practical: 0		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to provide students with basic knowledge of forensic psychology						
General Objective 1.0: Understand the concept of Forensic Psychology						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-4	1.1 Define Psychology	Explain Psychology	Textbooks Charts			
	1.2 Define Psychologist	Explain Psychologist	Journals Computer			
	1.3 Explain Forensic Psychology	Explain Forensic Psychology	Projector Internet resources			
	1.4 Explain the role of Forensic Psychologist	Explain the role of Forensic Psychologist	Audio-visual Whiteboard Marker			
	1.5 Explain the ethics in Forensic Psychology	Explain the ethics in Forensic Psychology				
General Objective 2.0: Understand Criminal Behaviour and Profiling						
5-8	2.1 Explain Criminal Behaviour	Explain Criminal Behaviour	Textbooks Charts Journals			
	2.2 Explain predisposing factors that leads to Criminal behavior	Explain predisposing factors that leads to Criminal behaviour	Computer Projector Whiteboard Marker			

	2.3 Explain crime prevention	Explain Crime prevention	Internet resources Audio-visual			
General Objective 3.0: Understand Interview and Interrogation Techniques						
9-11	3.1 Explain Interrogation	Explain Interrogation	Textbooks Charts			
	3.2 Explain Interrogation Techniques	Explain Interrogation Techniques	Journals Computer Projector			
	3.3 Explain Interrogation process	Explain Interrogation process	Whiteboard Marker Internet			
	3.4 Explain ethics of interrogation	Explain ethics of interrogation	resources Case studies Audio-visual			
	3.5 Explain the difference between Interview and Interrogation	Explain the difference between Interview and Interrogation				
General Objective 4.0: Understand contemporary Issues in Forensic Psychology						
13-14	4.1 Explain the current trends and challenges in forensic psychology	Explain the current trends and challenges in forensic psychology	Textbooks Charts Journals Computer Projector			
	4.2 Explain the application of technology in forensic psychology	Explain the application of technology in forensic psychology	Whiteboard Marker Internet			
	4.3 Explain crime evolution in modern and future society	Explain crime evolution in modern and future society	resources Case studies Audio-visual			

EVALUATION: C.A: 30%
EXAMINATION: 70%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Crime And Society	Course Code: FRT 124	Contact Hours: 2
	Credit Unit: 2	Theoretical: 2
Year: I Semester: I	Pre-requisite:	Practical: 0
GOAL: This course is designed to provide students with knowledge of crime in society.		
<p>GENERAL OBJECTIVES: On completion of this course, the students should be able to:</p> <ul style="list-style-type: none"> 1.0 Understand crime in society 2.0 Understand the contribution of environmental factors to criminal behavior. 3.0 Understand the impact of crime on society 4.0 Understand whistle blower policies in relation to crime 5.0 Understand Nigeria Criminal Justice System 6.0 Understand crime control strategies 7.0 Understand perception management and rehabilitation 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Crime and Society		Course Code: FRT 124			Contact Hours: 2	
		Credit Unit: 2			Theoretical: 2	
Year: I Semester: II		Pre-requisite:			Practical: 0	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to provide students with knowledge of crime in society						
General Objective 1.0: Understand crime in society						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-2	1.1 Define crime and criminology	Explain crime and criminology	Textbooks Markers Board OCTV			
	1.2 Explain the impact of crime on society	Explain the impact of crime on society	Internet resources Audio-visual			
	1.3 Explain types of Crime	Explain types of Crime	Case studies Computer Projector			
	1.4 Explain the roles of Law Enforcement Agencies in addressing crimes in society	Explain the roles of Law Enforcement Agencies in addressing crimes in society				
General Objective 2.0: Understand the contribution of environmental factors to criminal behavior.						
3-4	2.1 Define environment and environmental factors	Explain environment and environmental factors	Textbooks Markers Board			

	<p>2.2 Explain the factors contributing to crime in society:</p> <ul style="list-style-type: none"> • Social • Economic • Political • Religious • Cultural, etc. <p>2.3 Explain roles of traditional institutions in inhibiting crimes in the society</p>	<p>Explain the factors contributing to crime in society:</p> <ul style="list-style-type: none"> • Social • Economic • Political • Religious • Cultural, etc. <p>Explain roles of traditional institutions in inhibiting crimes in the society</p>	<p>CCTV Internet resources Audio-visual Case studies Computer Projector</p>			
General Objective 3.0: Understand the impact of crime on society						
5-6	<p>3.1 Explain the impact of crime on Nigerian society</p> <p>3.2 Explain modalities for crime prevention in a society</p> <p>3.3 Explain mental health and crime</p>	<p>Explain the impact of crime on society</p> <p>Explain modalities for crime prevention in a society.</p> <p>Explain mental health and crime</p>	<p>Textbooks Markers Board CCTV Internet resources Audio-visual Case studies Computer Projector Video clips Charts Banners</p>			
General Objective 4.0: Understand whistle blower policies in relation to crime						
7-8	4.1 Define whistle blower	Define whistle blower	Textbooks Markers Board			

	4.2 Explain the guidelines to whistleblowing	Explain the guidelines to whistleblowing	CCTV Internet resources Audio-visual			
	4.3 Explain the consequences of whistleblowing	Explain the consequences of whistleblowing	Case studies Computer Projector			
	4.4 Explain whistle blower Rights and Protection	Explain whistle blower Rights and Protection	Charts Banners			
	4.5 Explain whistleblowing as a strategy for crime prevention	Explain whistleblowing as a strategy for crime prevention				
General Objective 5.0: Understand Nigeria Criminal Justice System						
9-11	5.1 Explain Nigeria Criminal Justice System	Explain of Nigeria Criminal Justice System	Slides Lecture notes			
	5.2 Explain the challenges facing Nigeria Criminal Justice System	Explain the challenges facing Nigeria Criminal Justice System	Markers Board CCTV Internet resources			
	5.3 Explain the functions of Criminal Justice System	Explain the functions of Criminal Justice System	Audio-visual Case studies			
	5.4 Explain types of court in Nigeria in relation to crime.	Explain types of court in Nigeria in relation to crime.	Computer Projector Charts Banners Nigerian Constitution			

General Objective 6.0: Understand crime control strategies						
12-13	6.1 Explain crime control	Explain crime control	Textbooks Marker Board CCTV Internet resources			
	6.2 Explain the benefits of crime control in society	Explain the benefits of crime control in society	Audio-visual Case studies Computer Projector Charts			
	6.3 Explain strategies for crime prevention in Nigeria	Explain strategies for crime prevention in Nigeria				
	6.5 Explain community engagement in crime control strategy	Explain community engagement in crime control strategy				
	6.6 Explain the effectiveness of the strategies mentioned in 6.3	Explain the effectiveness of the strategies mentioned in 6.3				
General Objective 7.0: Understand perception management and rehabilitation						
14-15	7.1 Define Perception	Explain Perception	Textbooks Marker Board CCTV Internet resources			
	7.2 Explain Perception management	Explain Perception management	Audio-visual Case studies Computer Projector Charts			
	7.3 Explain rehabilitation	Explain rehabilitation				
	7.4 Explain how repentant criminal can be reintegrated back in the society	Explain how repentant criminal can be reintegrated back in the society				

	7.5 Explain stigmatization and its effects on repentant criminals	Explain stigmatization and its effects on repentant criminals				
	7.6 Explain the impact of NGOs in providing relief material to the victims of crimes	Explain the impact of NGOs in providing relief material to the victims of crimes.				
	7.7 Explain the humanitarian efforts of government agencies e.g.: NDLEA, NAPTIP	Explain the humanitarian efforts of government agencies e.g.: NDLEA, NAPTIP				

EVALUATION: C.A: 30%
EXAMINATION: 70%

NATIONAL BOARD FOR TECHNICAL EDUCATION

YEAR I SEMESTER II

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Crime Scene Management (CSM)	Course Code: FRT 121	Contact Hours: 3
	Credit Unit: 3	Theoretical: 1
Year: I Semester: II	Pre-requisite:	Practical: 2
GOAL: This course is designed to provide students with the knowledge and skills of Crime Scene Management.		
GENERAL OBJECTIVES: On completion of this course, the students should be able to: 1.0 Understand best-practices in Crime Scene Management 2.0 Understand the relevance of documentation during crime scene investigation 3.0 Know how to maintain chain of custody under the criminal justice system 4.0 Understand the functions of an Exhibit keeper and the relevance 5.0 Understand Forensic report writing 6.0 Understand the presentation of sample and evidence recovered from a crime scene in a court of law.		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title:: Crime Scene Management (CSM)		Course Code: FRT 121			Contact Hours: 3	
		Credit Unit: 3			Theoretical: 1	
Year: I Semester: II		Pre-requisite:			Practical: 2	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to provide students with the knowledge and skills of Crime Scene Management						
General Objective 1.0: Understand best-practices in Crime Scene Management						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-3	1.1 Explain how to manage a crime scene 1.2 Explain how to secure crime scene 1.3 Explain search of crime scene 1.4 Explain how to carry out: <ul style="list-style-type: none"> • Identification • Collection • Packaging • Documentation • Transportation of relevant samples and evidence to the laboratory 	Explain how to manage a crime scene Explain how to secure crime scene Explain search of crime scene Explain how to carry out: <ul style="list-style-type: none"> • Identification • Collection • Packaging • Documentation • Transportation of relevant samples and evidence to the laboratory 	Slides Lecture notes Marker Whiteboard Internet resources Computer Projector	Demonstrate how to Set up a crime scene: <ul style="list-style-type: none"> • Identification • Collection • Packaging • Documentation • Transportation of relevant samples and evidence to the crime being investigated 	Guide student to : Demonstrate how to Set up a crime scene <ul style="list-style-type: none"> • Identification • Collection • Packaging • Documentation • Transportation of relevant evidence to the crime being investigated 	Video clips Evidence bag Cordoning Tapes, Proper-PPE Camera Magnifying lens Source of light Relevant samples and evidence

	1.5 List classes of samples and evidence	Explain classes of samples and evidence				
	1.6 Describe the guidelines for identifying classes of samples and evidence	Explain the guidelines for identifying classes of samples and evidence				
	1.7 Explain best practices in the preservation of the classes of samples and evidence	Explain best practices in the preservation of the classes of samples and evidence				
General Objective 2.0: Understand the relevance of documentation during crime scene investigation						
4-5	2.1 Define documentation	Explain documentation	Textbooks Markers Projector Whiteboard Internet resources	Demonstrate convention labelling for samples and evidence	Guide students to: Demonstrate convention labelling for samples and evidence	Camera, Evidence bag, Proper-PPE Labelling tape
	2.2 State the importance of documentation at each stage of the investigation	Explain the importance of documentation at each stage of the investigation				
	2.3 Explain how to adopt convention labelling for samples and evidence	Explain how to adopt convention labelling for samples and evidence		Apply photography and videography as tools of documentation	Apply photography and videography as tools of documentation	Markers Seals Cello-tape
	2.4 Explain the application of photography and videography as tools of documentation	Explain the application of photography and videography as tools of documentation				
General Objective 3.0: Know how to maintain chain of custody under the Criminal Justice System						
6-7	3.1 Explain the concept of maintaining chain of custody of sample and evidence from the crime scene to admission in court	Explain the concept of maintaining chain of custody of evidence from the crime scene to admission in court	Textbooks Markers Internet Whiteboard Projector	Identify methods of collecting samples and evidence at crime scene	Guide students to: Identify methods of collecting samples and	Camera Evidence bag

	3.2 Explain how to triage classes of samples and evidence collected at crime scene	Explain how to triage classes of samples and evidence collected at crime scene	Computer		evidence at crime scene	Proper-PPE Labelling tape Markers Seals Cello-tape
	3.3 State the Nigeria Evidence Acts of the Criminal Justice System on admissibility of samples and evidence	Explain the Nigeria Evidence Acts of the Criminal Justice System on admissibility of samples and evidence				
	3.4 Explain how to maintain proper chain of custody	Explain how to maintain proper chain of custody.				
General Objective 4.0: Understand the functions of an Exhibit keeper and the relevance						
8-10	4.1 Define Exhibit and Exhibit keeper	Define Exhibit and Exhibit keeper	Slides Lecture notes	Visit a police formation to identify: • Exhibit room • Handling and storage	Guide students to: Visit a police formation to identify: • Exhibit room • Handling and storage	Camera, Evidence bag, Proper-PPE Labelling tape Markers Seals Cello-tape
	4.2 Explain the roles of an Exhibit keeper	Explain the roles of an Exhibit keeper	Markers Whiteboard Projector			
	4.3 Differentiate between exhibit and evidence	Explain the difference between exhibit and evidence	Computer Camera	Write report		
	4.4 Explain the process of storing and securing exhibit and evidence	Explain the process of storing and securing evidence			Write report	
General Objective 5.0: Understand Forensic report writing						
11-12	5.1 Define Report writing	Explain Report writing	Slides Lecture notes	Identification of case	Guide students to: Identification of	Camera Evidence bag

	5.2 Explain Forensic Report writing	Explain Forensic Report writing	Markers Whiteboard Projector	report from forensic practitioners	case report from forensic practitioners	Proper-PPE
	5.3 Explain the format of Forensic Report writing	Explain the format of Forensic Report writing	Computer Images	Review of case reports	Review of case reports	Labelling tape
	5.4 Explain the importance of Forensic Report writing	Explain the importance of Forensic Report writing				Markers
	5.5 Explain key words used in Forensic Report writing	Explain key words used in Forensic Report writing				Seals Cello-tape
General Objective 6.0: Understand the presentation of evidence recovered from a crime scene in a court of law.						
13-14	6.1 Define expert witness	Explain expert witness	Slides Lecture notes		Guide students to:	Video-clip
	6.2 Explain mode of physical evidence presentation	Explain mode of physical evidence presentation	Markers Whiteboard	Visit a court to observe proceeding	Visit a court to observe proceeding	Case studies
	6.3 Explain digital evidence presentation	Explain digital evidence presentation	Projector Computer Images	Mock session	Mock session	Audio-visual
	6.4 Explain cross examination	Explain cross examination		Write report	Write report	Camera

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Anthropology 1	Course Code: FRT 122	Contact Hours: 3
	Credit Unit: 3	Theoretical: 2
Year: I Semester: II	Pre-requisite:	Practical: 1
GOAL: This course is designed to equip students with knowledge and skills for identifications and analysis of human remains in forensic investigation.		
GENERAL OBJECTIVES: On completion of this course, the students should be able to:		
1.0 Understand the Fundamental Principles of Forensic Anthropology in Death investigation. 2.0 Understand the methods used in the analysis of human remains in medico-legal context 3.0 Understand the techniques for estimation of biography and anthropometric measurements based on skeletal remains.		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Anthropology 1		Course Code: FRT 122			Contact Hours: 3	
		Credit Unit: 3			Theoretical: 2	
Year: I Semester: II		Pre-requisite:			Practical: 1	
COURSE SPECIFICATION: THEORETICAL						
GOAL: This course is designed to equip students with knowledge and skills for identifications and analysis of human remains in forensic contexts.						
General Objective 1.0: Understand the Fundamental Principles of Forensic Anthropology in Death investigation.						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-4	1.1 Define Forensic Anthropology 1.2 Explain the history and development of Forensic Anthropology 1.3 Explain the roles of Forensic Anthropology in criminal investigations	Explain Forensic Anthropology Explain the history and development of Forensic Anthropology Explain the roles of Forensic Anthropology in criminal investigations	Textbooks Computer Projector Slides DVD Multimedia player Whiteboard Marker Internet resources			
General Objective 2.0: Understand the methods used in the analysis of human remains in medico-legal context						
5-10	2.1 Explain human remains 2.2 State the principles used in the analysis of human remains.	Explain human remains Explain the principles used in the analysis of human remains.	Textbooks Computer Projector Slides DVD Multimedia player	Identify the race, gender, age using human skeleton Simulation to identify, classify and	Guide students to: Identify the race, gender, age using human skeleton Simulation to	Human Skeleton Hand lens Microscope

	2.3 Explain the roles of human osteology in forensic case	Explain the roles of human osteology in forensic case	Whiteboard Marker Internet resources	compare with natural skeleton	identify, classify and compare with natural skeleton	Hand Trowel Forceps Diggers Proper-PPE Spade Brushes Kidney dish Bed-pan Body bags Specimen containers
	2.4 Explain methods used in the analysis of human remains.	Explain methods used in the analysis of human remains.				
General Objective 3.0: Understand the techniques for estimation of biography and anthropometric measurements based on skeletal remains.						
11-14	3.1 Explain the techniques used in identifying skeletal landmarks and ancestry skeletal remains	Explain the techniques used in identifying skeletal landmarks and ancestry skeletal remains	Textbooks Computer Projector Slides DVD Multimedia player	Carry out body weight and height measurement Carry out body segment length	Guide students to: Carry out body weight and height measurement Carry out body segment length	Weighing scale Tape Dummy Skeleton Stadiometer
	3.2 Explain the techniques used in in dating and analyzing skeletal landmarks and ancestry	Explain the techniques used in analyzing skeletal landmarks and	White board Marker	Carry out body girth measurement		

	skeletal remains	ancestry skeletal remains				
	3.3 State the importance of maintaining accurate records in analysis process	Explain the importance of maintaining accurate records in analysis process	Internet resources	Carry out body mass index	Carry out body girth measurement	Calipers
	3.4 State limitations of anthropometric techniques	Explain limitations of anthropometric techniques		Carry out head and eye measurement	Carry out body mass index	
	3.5 State limitations of biography	Explain limitations of biography			Carry out head and eye measurement	

EVALUATION: C.A: 40%
EXAMINATION: 60%

NATIONAL BOARD FOR TECHNICAL EDUCATION

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Introduction To Digital Forensics	Course Code: FRT 123	Contact Hours: 3
	Credit Unit: 3	Theoretical: 1
Year: I Semester: II	Pre-requisite:	Practical: 2
GOAL: This course is designed to equip students with knowledge and skills on forensic investigations of digital devices.		
<p>GENERAL OBJECTIVES: On completion of this course, the students should be able to:</p> <ul style="list-style-type: none"> 1.0 Understand Digital Forensics 2.0 Understand Cybercrime and Digital Evidence 3.0 Understand Analytical and Problem-Solving Skills in Digital Forensics 4.0 Understand Digital Forensic Investigations 5.0 Understand Digital Evidence Management 		

PROGRAMME: NATIONAL DIPLOMA (ND) FORENSIC TECHNOLOGY						
Course Title: Introduction To Digital Forensics		Course Code: FRT 123		Contact Hours: 3		
		Credit Unit: 3		Theoretical: 1		
Year: I Semester: II		Pre-requisite:		Practical: 2		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with knowledge and skills on forensic investigations of digital devices.						
General Objective 1.0: Understand the Digital Forensics.						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-2	1.1 Define Digital Forensic 1.2 List types of digital Forensics 1.3 Explain the significance of digital Forensics 1.4 Explain Forensic investigation on digital devices	Explain Digital Forensic Explain the types of digital Forensics Explain the significance of digital Forensics Explain Forensic investigation on digital devices	Charts Textbooks Journals Computer Projector Whiteboard Marker Internet resources			
General Objective 2.0: Understand Cybercrime and Digital Evidence						
3-5	2.1 Define Cybercrime 2.2 List the classes of Cybercrime	Explain Cybercrime Explain the classes of Cybercrime	Lecture notes Pictures Charts Textbooks Journals	Identify the types of Cybercrime • Hacking • Phishing	Guide Students to: Identify the types of Cybercrime	Computer Intrusion Detection Systems

	2.3 List Password Cracking tools for legal use by security professionals	Explain Password Cracking tools for legal use by security professionals	Computer Internet resources Projector DVD/Multi media Player Whiteboard Marker	<ul style="list-style-type: none"> • Digital Identity theft • DDoS etc 	<ul style="list-style-type: none"> • Hacking • Phishing • Digital Identity theft • DDoS etc 	(IDS) Intrusion Prevention Systems (IPS) Security Information and Event Management System Antivirus/ Anti-malware software Packet Sniffers Penetration Testing Tool Log Analysis Tool
	2.4 Define Digital Evidence	Explain Digital Evidence				
	2.5 Explain the types of Digital Evidence	Explain the types of Digital Evidence				
	2.6 Explain Digital Evidence extraction tools	Explain Digital Evidence extraction tools				
General Objective 3.0: Understand Analytical and Problem-Solving Skills in Digital Forensics						
6-8	3.1 Explain how to interpret digital evidence from various sources	Explain how to interpret digital evidence from various sources	Lecture notes Pictures Charts Textbooks	Identify Digital evidence from	Guide students to: Identify Digital evidence from	Computer Autopsy

	<p>3.2 Explain the types of Digital extraction:</p> <ul style="list-style-type: none"> • File system • Physical extraction • Logical extraction <p>3.3 Explain how to maintain the integrity of evidence.</p> <p>3.4 Explain the use of forensic software tools for solving problems</p>	<p>Explain the types of Digital extraction:</p> <ul style="list-style-type: none"> • File system • Physical extraction • Logical extraction <p>Explain how to maintain the integrity of evidence.</p> <p>Explain the use of forensic software tools for solving problems</p>	<p>Journals Computer Software Internet resources Projector DVD/Multi media Player Whiteboard/Marker</p>	<p>various sources:</p> <ul style="list-style-type: none"> • Hard drives • Flash drives • Networks • Mobile devices • Data banks 	<p>various sources:</p> <ul style="list-style-type: none"> • Hard drives • Flash drives • Networks • Mobile devices • Data Banks 	<p>Write blocker Forensic Duplicator Disk Imager Wireshark Network Miner Xplico NetWitness Investigator Network Taps Packet Sniffers Faraday Bags Extraction Kits AWS CloudTrail</p>
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NATIONAL BOARD FOR TECHNICAL EDUCATION

						E3 (Cloud) RAM Capture Device Memory Dump Kits
General Objective 4.0: Understand Digital Forensic Investigations						
9-11	4.1 Explain types of Digital Forensic Investigations 4.2 Explain the tools used for digital forensic investigations 4.3 Explain the importance of Digital forensic investigations.	Explain types of Digital Forensic Investigations Explain the tools used for digital forensic investigations Explain the importance of Digital forensics investigations	Charts Textbooks Journals Computer Software Internet resources Projector DVD/Multi media Player board	Simulate a crime scene and carryout investigations using digital tools	Guide students to: Simulate crime scene and carryout investigations using digital tools	Computer Systems Network simulating tools (NS-3, OMNET++, GNS3) EnCase Forensic Tool Kit (FTK) X-way Forensics Autopsy Sleuth Kit Network

						Taps Packet Sniffers Magnet AXIOM Oxygen Forensic
General Objective 5.0: Understand Digital Evidence Management						
12-14	5.1 Explain the principles of Digital Evidence Management 5.2 Explain handling plain Digital Evidence procedures 5.3 Explain digital evidence acquisition and preservation 5.4 Explain the chain of custody for digital evidence 5.5 Explain legal requirements, standards and regulations governing digital	Explain the principles of Digital Evidence Management Explain Digital Evidence handling procedures Explain digital evidence acquisition and preservation Explain the chain of custody for digital evidence Explain legal requirements, standards and regulations governing digital	Charts Textbooks Journals Computer Software Internet resources Projector DVD/Multi media Player Whiteboard Marker			

	Forensics evidence management	Forensics evidence management				
	5.6 Explain ways to securely store digital evidence	Explain ways to securely store digital evidence				

EVALUATION: C.A: 40%
EXAMINATION: 60%

NATIONAL BOARD FOR TECHNICAL EDUCATION

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Introduction to Fingerprints	Course Code: FRT 124	Contact Hours: 2
	Credit Unit: 2	Theoretical: 1
Year: I Semester: II	Pre-requisite:	Practical: 1
GOAL: This course is designed to equip students with knowledge and skills on application of fingerprints in forensic analysis.		
<p>GENERAL OBJECTIVE: At the end of this course, the students should be able to:</p> <ul style="list-style-type: none"> 1.0 Understand the concept of fingerprints 2.0 Understand fingerprints identification 3.0 Understand the development of latent prints 4.0 Understand Inked Fingerprints 5.0 Understand Lifting Prints using Dusting Techniques 6.0 Understand developing fingerprints using Chemical Methods 7.0 Understand Fingerprint Analysis Techniques 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Introduction to Fingerprints		Course Code: FRT 124			Contact Hours: 2	
		Credit Unit: 2			Theoretical: 1	
Year: I Semester: II		Pre-requisite:			Practical: 1	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with knowledge and skills on application of fingerprints in forensic analysis.						
General Objective 1.0: Understand the concept of fingerprints						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-2	1.1 Define fingerprints	Explain fingerprints	Textbooks Projector Computer Internet resources Lecture notes Finger marks Marker Whiteboard Journals			
	1.2 Explain types of fingerprints	Explain types of fingerprints				
	1.3 Explain the characteristics of Fingerprint	Explain the characteristics of Fingerprint				
	1.4 Explain the patterns of Fingerprint	Explain the patterns of Fingerprint				
	1.5 Explain Ten-print classification	Explain Ten print classification				
	1.6 Explain the importance of fingerprints in forensic analysis	Explain the importance of fingerprints in forensic analysis				

General Objective 2.0: Know fingerprints identification						
3-4	2.1 Explain fingerprint identification	Explain fingerprint identification	Text books Projector Computer	Carryout fingerprint identification	Guide students to: Carryout fingerprint identification	Fingerprint slab
	2.2 Explain the use of fingerprints in crime identification	Explain the use of fingerprints in crime identification	Internet resources Lecture notes Finger marks	Carryout fingerprint matching	Carryout fingerprint matching	Fingerprint ink Roller
	2.3 Explain certainty and uncertainty in identifications by fingerprint matching	Explain certainty and uncertainty in identifications by fingerprint matching	Marker Whiteboard Journals	Identify context and potential errors in taking and analysing fingerprint	Identify context and potential errors in fingerprint analysis	Analyse Compare Evaluate- Verify (ACE-V)
	2.4 Explain context and potential errors in taking and analysing fingerprint	Explain context and potential errors in taking and analysing fingerprint		Identify new technologies of fingerprint matching	Identify new technologies of fingerprint matching	Magnifying Lens
	2.5 Explain uses of new technologies in fingerprint matching	Explain uses of new technologies in fingerprint matching				Pencil Celotape Fingerprint power Fingerprint card Finger marks

General Objective 3.0: Understand the development of latent fingerprints						
5-7	3.1 Explain electromagnetic spectrum	Explain electro-magnetic spectrum	Textbooks Projector Computer	Demonstrate interactions of light and matter in fingerprint analysis	Guide students to: Demonstrate interactions of light and matter in fingerprint analysis	Lifting tapes
	3.2 Explain electromagnetic spectrum in fingerprint analysis	Explain electro-magnetic spectrum in fingerprint analysis	Internet resources Finger marks Marker	Carryout chemical tests in fingerprint analysis	Carryout chemical tests in fingerprint analysis	Forensic tool box
	3.3 Explain Interactions of light and matter in fingerprint analysis	Explain Interactions of light and matter in fingerprint analysis	Whiteboard Journals			
	3.4 Explain the use of Chemicals in fingerprint analysis	Explain the use of Chemical tests in fingerprint analysis				
General Objective 4.0: Understand Inked Fingerprints						
8-9	4.1 Explain inked fingerprint	Explain inked fingerprint	Text books Projector Computer	Take fingerprint	Guide students to: Take fingerprint	Laboratory manual
	4.2 Explain the procedure of taking fingerprints	Explain the procedure of taking fingerprints	Internet resources Lecture notes	Take inked fingerprint	Take inked fingerprint	Ten-print card
	4.3 Explain the procedure of taking inked fingerprints	Explain the procedure of taking inked fingerprints	Finger marks Marker			Alcohol
	4.4 Explain ten-print card in fingerprint analysis	Explain ten-print card in fingerprint analysis	Whiteboard Journals	Take fingerprints using ten-print cards and ink pad	Take fingerprints using ten-print cards and ink pad	Soap Paper towels
	4.5 Explain the challenges in taking fingerprints.	Explain the challenges in taking fingerprints.		Use cleaning agents after taking fingerprint :	Use cleaning agents after taking fingerprint	Water Proper-PPE

				<ul style="list-style-type: none"> Alcohol Water and Soap Paper towels 	<ul style="list-style-type: none"> Alcohol Water and Soap Paper towels 	<p>Fingerprint slab</p> <p>Roller</p> <p>Fingerprint ink</p>
General Objective 5.0: Understand Lifting Prints Using Dusting Techniques						
10-11	<p>5.1 Explain dusting</p> <p>5.2 Explain dusting techniques in taking fingerprints</p> <p>5.3 Explain the procedure for lifting prints using dusting techniques</p> <p>5.4 Explain the types of latent fingerprint powders.</p>	<p>Explain dusting</p> <p>Explain dusting techniques in taking fingerprints</p> <p>Explain the procedure for lifting prints using dusting techniques</p> <p>Explain the types of latent fingerprint powders.</p>	<p>Text books</p> <p>Projector</p> <p>Computer</p> <p>Internet resources</p> <p>Lecture notes</p> <p>Finger marks</p> <p>Marker</p> <p>Whiteboard</p> <p>Journals</p>	<p>Demonstrate lifting prints using dusting techniques</p> <p>Identify types of latent fingerprint powders</p> <p>Break into groups:</p> <ul style="list-style-type: none"> lay fingerprints on surfaces. Apply the specialized powder on the surface lift the latent prints with the tape 	<p>Guide students to:</p> <p>Demonstrate lifting prints using dusting techniques</p> <p>Identify types of latent fingerprint powders</p> <p>Break into groups:</p> <ul style="list-style-type: none"> lay fingerprints on surfaces. Apply the specialized powder on the surface lift the latent prints with the tape 	<p>Forensic tool Box</p>

				<ul style="list-style-type: none"> • Transfer to the fingerprint paper. • Analyze the results • <p>Conclude which powders work best on different surfaces</p>	<ul style="list-style-type: none"> • Transfer to the fingerprint paper. • Analyze the results <p>Conclude which powders work best on different surfaces</p>	
General Objective 6.0: Understand Prints Using Chemical Methods						
12-13	<p>6.1 Explain chemical methods in fingerprint analysis</p> <p>6.2 Explain porous surface in fingerprint examination</p> <p>6.3 Explain how to develop fingerprints on porous surface using ninhydrin</p> <p>6.4 Explain how to immerse porous surface into ninhydrin solution and dry without touching surface</p>	<p>Explain chemical methods in fingerprint analysis</p> <p>Explain porous surface in fingerprint examination</p> <p>Explain how to develop fingerprints on porous surface using ninhydrin</p> <p>Explain how to immerse porous surface into ninhydrin solution and dry without touching surface</p>	<p>Text books</p> <p>Projector</p> <p>Computer</p> <p>Internet</p> <p>resources</p> <p>Lecture notes</p> <p>Finger marks</p> <p>Marker</p> <p>Whiteboard</p> <p>Journals</p>	<p>Use ninhydrin solution to develop fingerprint from a porous surface</p> <p>Immerse porous surface into ninhydrin solution and dry without touching surface</p> <p>Apply iron solution to develop the invisible latent prints</p>	<p>Guide students to:</p> <p>Use ninhydrin solution to develop fingerprint from a porous surface</p> <p>Immerse porous surface into ninhydrin solution and dry without touching surface</p> <p>Apply iron solution to develop the invisible latent prints</p>	<p>Paper</p> <p>Cloth</p> <p>Cardboard</p> <p>latex gloves</p> <p>Ninhydrin solution</p> <p>Iron solution</p>

	6.5 Explain the use of Iron solution to develop the invisible latent prints	Explain the use of Iron solution to develop the invisible latent prints				
General Objective 7.0: Understand Fingerprint Analysis Techniques						
14-15	7.1 Explain analysis of fingerprints	Explain analysis of fingerprints	Text books Projector Computer	Preserve fingerprints	Guide students to:	Fingerprint lifting tape
	7.2 Explain preservation of fingerprints	Explain preservation of fingerprints	Internet resources Lecture notes	Conduct analysis using: • Patterns of fingerprint	Preserve fingerprints	Samples ten-print cards
	7.3 Explain patterns of fingerprint	Explain patterns of fingerprint	Finger marks Marker Whiteboard Journals	• Ridge Characteristics	Conduct analysis using: • Patterns of fingerprint • Ridge Characteristics	Latent print
	7.4 Explain Ridge Characteristics in fingerprint analysis	Explain Ridge Characteristics in fingerprint analysis		Compare fingerprints	Compare fingerprints	Magnifying lens Forceps
	7.6 Explain Comparison of Fingerprints in analysis	Explain Comparison of Fingerprints in analysis				Pencil Light source Computer

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Biology	Course Code: FRT 125	Contact Hours: 3
	Credit Unit: 3	Theoretical: 1
Year: I Semester: II	Pre-requisite:	Practical: 2
GOAL: This course is designed to equip students with the knowledge of biology in the investigation of forensic cases		
GENERAL OBJECTIVES: On completion of this course, the students should be able to: <ul style="list-style-type: none"> 1.0 Understand Forensic Biology 2.0 Understand classes of Forensic Biology 3.0 Understand types of biological samples and associated materials 4.0 Understand basic concepts in analysis of biological samples 5.0 Know where Forensic Biology is applied 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Biology		Course Code: FRT 125			Contact Hours: 3	
		Credit Unit: 3			Theoretical: 1	
Year: I Semester: II		Pre-requisite:			Practical: 2	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with the knowledge of biology in the investigation of forensic cases						
General Objective 1.0: Understand forensic biology						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-2	1.1 Define Forensic Biology 1.2 Explain the history and development of Forensic Biology 1.3 Explain the scope of Forensic Biology 1.4 Explain the importance of Forensic Biology	Explain Forensic Biology Explain the history and development of Forensic Biology Explain the scope of Forensic Biology Explain the importance of Forensic Biology	Text books Projector Computer Marker Whiteboard Internet resources			
General Objective 2.0: Understand classes of Forensic Biology						
3-4	2.1 Explain the classes of Forensic Biology	Explain the classes of Forensic Biology	Text books Projector Computer Marker			

	2.2 Explain the scope of each class listed in 2.1 2.3 Explain the functions of 2.1	Explain the scope of each class listed in 2.1 Explain the functions of 2.1	Whiteboard Internet resources			
General Objective 3.0: Understand types of biological samples and associated materials						
5-9	3.1 Define biological samples 3.2 List types of biological samples 3.3 Explain how biological samples are collected 3.4 Describe how to package and store biological samples 3.5 Explain biological sample labelling 3.6 Explain biological sample and other materials 3.7 Describe methods of biological sample disposal	Explain biological samples Explain types of biological samples Explain how biological samples are collected Explain how to package and store biological samples Explain biological sample labelling Explain biological sample and other materials Explain methods of biological sample disposal	Textbooks Projector Computer Lecture notes Slides Marker Whiteboard Internet resources	Identify types of samples Identify types of sample containers/bottles Identify containers specifications Carryout collection of samples Carryout precautionary measures for general and specific handling of biological samples	Guide students to: Identify types of samples Identify types of sample containers/bottles Identify containers specifications Carryout collection of samples Carryout precautionary measures for general and specific handling of biological samples	Log book Sample containers/ Bottles Sample carriers Hand gloves Safety gadgets Face shield Face masks Prepared biological samples Syringes Needles Safety box

	3.8 Explain precautions for general and specific handling of biological samples	Explain precautions for general and specific handling of biological samples				Cotton wool Ethanol Glass Slides Coverslips Magnifying lens Microscopes Proper- PPE Formaldehyde Watch glass Spatula Tweezers Scissors Forceps Water Distiller
General Objective 4.0: Understand basic concepts in analysis of biological samples						
10-13	4.1 Explain the principles and methods of sample analysis: <ul style="list-style-type: none"> • DNA • Serology 	Explain the principles and methods of sample analysis: <ul style="list-style-type: none"> • DNA • Serology 	Text books Projector Computer Lecture notes Slides	Identify equipment used for analysis of biological samples Carry out Point Of Care Testing (POCT)	Guide student to : Identify equipment used for analysis of biological samples	Log book Sample containers/ bottles Sample

	<ul style="list-style-type: none"> • Culture <p>4.2 List the advantages and disadvantages of each method in 4.1 above</p> <p>4.3 Explain the cost implication of sample analysis</p> <p>4.4 Describe how to triage forensic methodology:</p> <ul style="list-style-type: none"> • Distinguish between closely related agents <p>4.6 Describe categories of professionals in sample analysis handling</p>	<ul style="list-style-type: none"> • Culture <p>Explain the advantages and disadvantages of each method in 4.1 above</p> <p>Explain the cost implication of sample analysis</p> <p>Explain how to triage forensic methodology:</p> <ul style="list-style-type: none"> • Distinguish between closely related agents <p>Explain categories of professionals in sample analysis handling</p>	<p>Marker</p> <p>Whiteboard</p> <p>Internet resources</p>	<p>Carry out simple spectrophotometry test</p>	<p>Carry out Point Of Care Testing (POCT)</p> <p>Carry out simple spectrophotometry test</p>	<p>carriers</p> <p>Hand gloves</p> <p>Safety gadgets</p> <p>Culture Media</p> <p>Face shield</p> <p>Face masks</p> <p>Images of karyotyping</p> <p>Images of Spectrophotometer</p> <p>Proper-PPE</p> <p>Microscope</p> <p>Point of care strips</p> <p>Images of DNA Sequencer</p>
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EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Chemistry	Course Code: FRT 126	Contact Hours: 3
	Credit Unit: 3	Theoretical: 1
Year: I Semester: II	Pre-requisite:	Practical: 2
GOAL: This course is designed to acquaint the students with knowledge and skills of chemical principles and analytical techniques and their applications to forensic technology.		
GENERAL OBJECTIVES: On completion of this course, the students should be able to:		
1.0 Understand fundamental chemical principles in Forensic Technology. 2.0 Know best practices for the identification, collection, preservation, and handling of chemical samples and evidence. 3.0 Understand how forensic chemistry relates with other forensic disciplines.		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Chemistry		Course Code: FRT 126			Contact Hours: 3	
		Credit Unit: 3			Theoretical: 1	
Year: I Semester: II		Pre-requisite:			Practical: 2	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to acquaint the students with knowledge and skills of chemical principles and analytical techniques and there applications to forensic technology.						
General Objective 1.0: Understand fundamental chemical principles in forensic technology.						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-4	1.1 Explain the following fields of study in forensic chemistry: <ul style="list-style-type: none"> Organic Inorganic Physical Composite 1.2 Describe the chemical properties of common substances encountered in forensic cases: <ul style="list-style-type: none"> Drugs Explosives Biological fluids Radiological 	Explain the following fields of study in forensic chemistry: <ul style="list-style-type: none"> Organic, Inorganic Physical Composite Explain the chemical properties of common substances encountered in forensic cases: <ul style="list-style-type: none"> Drugs Explosives Biological fluids Radiological 	Text books Projector Computer Lecture notes Slides Marker Whiteboard Internet resources	Conduct: <ul style="list-style-type: none"> Chromatography Spectrometry Non-destructive techniques etc. Apply safety measures for handling chemicals in a laboratory.	Guide students to: Conduct: <ul style="list-style-type: none"> Chromatography Spectrometry Non-destructive techniques etc. Apply safety measures for handling chemicals in a laboratory	Lab coats Test tubes Micropipettes Spectrophotometer Chromatography Cuvettes, Proper-PPE

	<ul style="list-style-type: none"> etc. <p>1.3 Explain the structure and function of organic compounds in forensic technology</p> <p>1.4 Explain the significance of inorganic compounds in forensic investigations:</p> <ul style="list-style-type: none"> Metals Materials found at crime scenes 	<p>etc.</p> <p>Explain the structure and function of organic compounds in forensic technology</p> <p>Explain the significance of inorganic compounds in forensic investigations:</p> <ul style="list-style-type: none"> Metals Materials found at crime scenes 				
General Objective 2.0: Know best practices for the identification, collection, preservation, and handling of chemical samples and evidence						
5-9	<p>2.1 Explain procedures for identification of chemical samples and evidence</p> <p>2.2 Explain procedures for collection, packaging, labelling and transportation of chemical samples and evidence</p>	<p>Explain procedures for identification of chemical samples and evidence</p> <p>Explain procedures for collection, packaging, labelling and transportation of chemical samples and evidence.</p>	<p>Text books</p> <p>Projector</p> <p>Computer</p> <p>Marker</p> <p>Whiteboard</p> <p>Internet resources</p>	<p>Identify and analyse samples, evidence and control</p> <p>Collect, preserve and analyse chemical samples and evidence</p>	<p>Guide students to:</p> <p>Identify and analyse samples, evidence and control</p> <p>Collect, preserve and analyse chemical samples and evidence</p>	<p>Pictures</p> <p>Sample containers</p> <p>Proper-PPE</p> <p>Coolants</p> <p>Refrigerator</p> <p>Thermometer</p> <p>Labels</p>

	2.3 Explain control sample collection and analysis	Discuss control sample collection and analysis				
	2.4 Explain importance of chain of custody in investigations	Explain importance of chain of custody in investigations				
	2.5 Explain guidelines on appropriate preservation methods for different types of chemical samples and evidence	Explain guidelines on appropriate preservation methods for different types of chemical samples and evidence				
	2.6 Explain exposure and contamination of chemical samples and evidence	Explain exposure and contamination of chemical samples and evidence				
General Objective 3.0: Understand how forensic chemistry relates with other forensic disciplines						
10-14	3.1 Explain interdisciplinary nature of forensic technology	Explain interdisciplinary nature of forensic technology	Textbooks Markers Whiteboard Pictures of samples of tests			
	3.2 Explain chemical methods used in crime scene investigation	Explain chemical methods used in crime scene investigation	Video clips Internet resources			
	3.3 Explain the application of chemistry in	Explain the application of				

	toxicology, biology, and crime scene investigation	chemistry in toxicology, biology, and crime scene investigation				
	3.4 Explain the challenges associated with chemistry as it relates with other disciplines	Explain the challenges associated with chemistry as it relates with other disciplines				

EVALUATION: C.A: 40%
 EXAMINATION: 60%

NATIONAL BOARD FOR TECHNICAL EDUCATION

YEAR II SEMESTER I

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Anthropology II	Course Code: FRT 211	Contact Hours: 2
	Credit Unit: 2	Theoretical: 2
Year: II Semester: I	Pre-requisite: FRT 122	Practical: Nil
GOAL: This course is designed to equip students with knowledge of Anthropological methods in Forensic Investigation.		
GENERAL OBJECTIVES: On completion of this course, the students should be able to: 1.0 Understand scientific methods and techniques for the analysis of human skeletal remains. 2.0 Understand physical anthropology in forensic technology. 3.0 Understand the contribution of Anthropology in solving criminal cases.		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Anthropology II		Course Code: FRT 211		Contact Hours: 2		
		Credit Unit: 2		Theoretical: 2		
Year: II Semester: I		Pre-requisite: FRT 122		Practical: Nil		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with knowledge of Anthropological methods in Forensic Investigation.						
General Objective 1.0: Understand scientific methods and techniques for the analysis of human skeletal remains.						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-5	1.1 Explain anatomy of human skeleton 1.2 Explain forensic osteology 1.3 Explain techniques used in the analysis of skeletal remains for forensic purposes 1.4 Explain techniques used in interpreting analysed skeleton remains for forensic purposes	Explain anatomy of human skeleton Explain forensic osteology Explain techniques used in the analysis of skeletal remains for forensic purposes Explain techniques used in interpreting analysed skeleton remains for forensic purposes	Textbooks Journals Computers Charts Marker Whiteboard Internet resources Projector	Identify bones of human skeleton Identify the differences in human skeleton based on gender, age and laterality	Guide students to: Identify bones of human skeleton Identify the differences in human skeleton based on gender, age and laterality	Dummy Human Skeleton Proper-PPE Ruler Clipper Measuring tape X-ray View Board Sample case study
General Objective 2.0: Understand physical anthropology in forensic technology.						
6-10	2.1 Define Physical Anthropology	Explain Physical Anthropology	Textbooks Journals Computer Charts	Identify bones of human skeleton from other bones	Guide students to: Identify bones of human skeleton	Dummy Human Skeleton

	2.2 Explain the principles used in physical anthropology	Explain the principles used in physical anthropology	Marker Marker Board Internet resources	Identify the differences in human skeleton based on gender, age and laterality	from other bones	Proper-PPE
	2.3 Explain the importance of physical anthropology	Explain the importance of physical anthropology	Projector	Identify fractures on human bones	Identify the differences in human skeleton based on gender, age and laterality	Ruler Clipper Measuring tape
	2.4 Explain basic fractures in osteology	Explain basic fractures in osteology			Identify fractures on human bones	X-ray View Board Sample case study
General Objective 3.0: Understand the contribution of Anthropology in solving criminal cases						
11-14	3.1 Explain ethical considerations in forensic anthropology	Explain ethical considerations in forensic anthropology	Textbooks Journals Computer Charts			
	3.2 Explain how forensic anthropology contribute to the identification of unidentified persons	Explain how forensic anthropology contribute to the identification of unidentified persons	Marker Marker Board Internet resources			
	3.3 Explain how forensic Anthropology contribute to Justice system.	Explain how forensic Anthropology contribute to Justice system	Projector			

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Pathology	Course Code: FRT 212	Contact Hours: 3
	Credit Unit: 3	Theoretical: 2
Year: II Semester: I	Pre-requisite:	Practical: 1
GOAL: This course is designed to acquaint the student with knowledge and skills of pathology in Forensic Investigation and legal proceedings		
GENERAL OBJECTIVES: On completion of this course, the students should be able to:		
1.0 Understand principles of Forensic Pathology 2.0 Know assaults and their implications for determining cause of death. 3.0 Know guidelines on the collection and preservation of samples during autopsy 4.0 Know the basics of forensic toxicology 5.0 Recognize documentary evidence.		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Pathology		Course Code: FRT 212			Contact Hours: 3	
		Credit Unit: 3			Theoretical: 2	
Year: II Semester: I		Pre-requisite:			Practical: 1	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to acquaint the student with knowledge and skills of pathology in Forensic Investigation and legal proceedings						
General Objective 1.0: Understand principles of forensic pathology						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-3	1.1 Define forensic pathology	Explain forensic pathology	Whiteboard Markers	Visit hospitals/ Morgues and observe post mortem examination	Guide student to: Visit hospitals/ Morgues and observe post mortem examination	Urine toxicology strips
	1.2 Explain the role of forensic pathology in determining cause and manner of death	Explain the role of forensic pathology in determining cause and manner of death.	Lecture notes Slides Pictures Projector Computer Internet resources			
	1.3 Explain the differences between various causes of death	Explain the differences between various causes of death		Identify the common post-mortem changes after death	Identify the common post-mortem changes after death	Stool Video clips Pictorials Sample containers
	1.4 Explain the common post-mortem changes	Explain the common post-mortem changes				Proper-PPE
	1.5 Explain the significance of post-mortem changes in	Explain the significance of post-mortem changes		Identify common substances tested for post-mortem toxicology	Identify common substances tested for post-mortem toxicology	

	death investigations	in death investigations.				Sample coroner's autopsy reports
	1.6 Define autopsy	Explain autopsy				
	1.7 Define medico-legal autopsy	Explain medico-legal autopsy				
	1.8 Outline the steps involved in medico-legal autopsy	Explain the steps involved in medico-legal autopsy				
	1.9 Explain the importance of documentation and sample collection during autopsy	Explain the importance of documentation and sample collection during autopsy				
	1.10 Explain the role of toxicology in forensic pathology	Explain the role of toxicology in forensic pathology.				
	1.11 Explain common substances tested in post-mortem toxicology and their implications	Explain common substances tested in post-mortem toxicology and their implications				
General Objective 2.0: Know assaults and their implications in determining cause of death.						
4-7	2.1 Define assaults	Explain assaults	Lecture notes Slides		Guide students to:	Videos
	2.2 Explain the differences between assault and injury	Explain the differences between assault and injury	Markers Projectors Internet resource Textbooks	Identify types of assaults Interpret assault patterns and correlate	Identify types of assaults Interpret assault patterns and	Pictures Proper-PPE

	2.3 Outline types of assaults	Explain types of assaults	Journals Computer Whiteboard	them with potential scenarios	correlate them with potential scenarios	Sample coroner's autopsy reports
	2.4 Explain types of assaults mechanisms	Explain types of assaults mechanisms		Report Assault findings	Report Assault findings	
	2.5 Explain how the mechanisms in 2.3 relate to potential causes of death	Explain how the mechanisms in 2.3 relate to potential causes of death				
General Objective 3.0: Know guidelines on the collection and preservation of samples during autopsy						
8-10	3.1 Explain sample collection during autopsy	Explain sample collection during autopsy	Markers Projectors Internet resource	Visit hospitals/Morgues and observe post mortem examination	Guide students to. Visit hospitals/Morgues and observe post mortem examination	Television CD sample forms sample labels
	3.2 Explain sample preservation during autopsy	Explain sample preservation during autopsy	Textbooks Journals Computer Whiteboard			sample labels
	3.3 Explain sample transportation and storage during autopsy	Explain sample transportation and storage during autopsy		Demonstrate sample collection, preservation, transportation and storage	Demonstrate sample collection, preservation, transportation and storage	storage bags tags
	3.4 Explain how to handle reports and enter in a register	Explain how to handle reports and enter in a register		Handle dummy reports and enter in a register	Handle dummy reports and enter in a register	Proper-PPE

General Objective 4.0: Know the basics of forensic toxicology						
11-12	4.1 Define toxins	Explain toxins	Marker projectors.	Identify samples for toxicology analysis	Guide students to: Identify samples for toxicology analysis	Fridge
	4.2 Define forensic toxicology	Explain forensic toxicology	Internet resource	Demonstrate methods of collection,	Demonstrate methods of collection,	Coolant
	4.3 Explain classes of toxins and mode of action	Explain classes of toxins and mode of action	Textbooks	preservation and storage of samples for toxicology	Demonstrate methods of collection,	Sample bags
	4.4 Outline samples required for toxicology analysis	Explain samples required for toxicology analysis	Journals		preservation and storage of samples for toxicology	Sample containers
	4.5 Explain methods of collection and preservation of samples for toxicology	Explain methods of collection and preservation of samples for toxicology	Computer	Perform urine toxicology using test strips		Chromatographic equipment
	4.6 Explain methods of detection and assay of toxins	Explain methods of detection and assay of toxins	Whiteboard	Detect, assay quantitative and qualitative:	Perform urine toxicology using test strips	Pictures and video of mass spectra
	4.7 Explain a forensic toxicologist	Explain a forensic toxicologist		<ul style="list-style-type: none"> Bio-chemical Trace elements 	Detect, assay quantitative and qualitative:	Spectrophotometer
	4.8 Explain role of forensic toxicologist in forensic	Explain role of forensic toxicologist in forensic		Utilize selective migration to generate chromatograms of : <ul style="list-style-type: none"> Bio-chemical 	<ul style="list-style-type: none"> Bio-chemical Trace elements Utilize selective migration to generate	Urine toxicology strips

	investigation	investigation		<ul style="list-style-type: none"> Organic compounds 	chromatograms of: <ul style="list-style-type: none"> Bio-chemical Organic compounds 	Collection containers Proper-PPE
General Objective 5.0: Recognize documentary evidence						
13-15	5.1 Define evidence 5.2 Explain documentary evidence 5.3 Explain types of documentary evidence 5.4 Explain the authenticity of documentary evidence	Explain evidences Explain documentary evidence Explain types of documentary evidence Explain the authenticity of documentary evidence	Markers Projectors Internet resource Textbooks Journals Computer Whiteboard Dummy Medical certificate Death certificate			

EVALUATION: C.A: 40%
 EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Ballistics	Course Code: FRT 213	Contact Hours: 2
	Credit Unit: 2	Theoretical: 1
Year: II Semester: I	Pre-requisite:	Practical: 1
GOAL: This course is designed to equip students with knowledge and skills in forensic ballistics.		
<p>GENERAL OBJECTIVES: On completion of this course, the students should be able to:</p> <ul style="list-style-type: none"> 1.0 Understand Fundamentals of Forensic Ballistics 2.0 Know Forensic Ballistic Evidence Collection 3.0 Understand Forensic Ballistics in Crime Scene Reconstruction 4.0 Understand Forensic Ballistic Reports and Testimony 5.0 Understand the Legal Framework in Forensic Ballistics 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Ballistics		Course Code: FRT 213			Contact Hours: 2	
		Credit Unit: 2			Theoretical: 1	
Year: II Semester: I		Pre-requisite:			Practical: 1	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with knowledge and skills in Forensic Ballistics						
General Objective 1.0: Understand Fundamentals of Forensic Ballistics						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-3	1.1 Define Forensic Ballistics	Explain Forensic Ballistics	Charts Books Journals	Visit Law Enforcement Training institutes	Guide students to: Visit Law Enforcement Training institutes	Magnifying lens Pictures of arms and ammunition and their labels
	1.2 List types of ballistics	List types of ballistics	Computer Projector	Identify types of Firearm	Identify types of Firearm	Proper-PPE Container Cotton wool
	1.3 Explain the history of forensic ballistics	Explain the history of forensic ballistics	Whiteboard Markers Internet resources	Identify ammunition components	Identify ammunition components	
	1.4 Explain the scope of Forensic ballistic: <ul style="list-style-type: none"> • Firearm identification • Ammunition analysis • Gunshot residue analysis • Trajectory analysis 	Explain the scope of Forensic ballistic: <ul style="list-style-type: none"> • Firearm identification • Ammunition analysis • Gunshot residue analysis • Trajectory analysis 		Apply safety protocols for handling ballistic evidence	Apply safety protocols for handling ballistic evidence	

	1.5 Explain types of Firearm	Explain Firearm types				
	1.6 Explain ammunition components	Explain ammunition components				
General Objective 2.0: Know Forensic Ballistic Evidence Collection						
4-6	<p>2.1 Explain ballistic evidence</p> <p>2.2 Explain the process of ballistic evidence collection:</p> <p>Fired bullets:</p> <ul style="list-style-type: none"> • Locate and handle carefully • Packaging <p>Cartridge cases:</p> <ul style="list-style-type: none"> • Identify and collect • Marking <p>Gunshot Residue (GSR):</p> <ul style="list-style-type: none"> • Swabbing • Collection kits • Time sensitivity <p>Shotgun wads and pallets:</p> <ul style="list-style-type: none"> • Recovery • Separate packaging <p>2.3 Explain labelling and documentation</p> <ul style="list-style-type: none"> • Evidence labels • Chain of custody 	<p>Explain ballistic evidence</p> <p>Explain the process of ballistic evidence collection</p> <p>Fired bullets:</p> <ul style="list-style-type: none"> • Locate and handle carefully • Packaging <p>Cartridge cases:</p> <ul style="list-style-type: none"> • Identify and collect • Marking <p>Gunshot Residue (GSR):</p> <ul style="list-style-type: none"> • Swabbing • Collection kits • Time sensitivity <p>Shotgun wads and pallets:</p> <ul style="list-style-type: none"> • Recovery • Separate packaging <p>Explain labelling and documentation</p> <ul style="list-style-type: none"> • Evidence labels • Chain of custody 	<p>Lecture notes</p> <p>Pictures</p> <p>Charts</p> <p>Books</p> <p>Journals</p> <p>Computer</p> <p>Projector</p> <p>Whiteboard</p> <p>Markers</p> <p>Internet resources</p>	<p>Visit Law Enforcement Training institutes</p> <p>Identify process of ballistic evidence collection</p> <p>Write report</p>	<p>Guide students to:</p> <p>Visit Law Enforcement Training institutes</p> <p>Identify process of ballistic evidence collection</p> <p>Write report</p>	<p>Ballistic samples</p> <p>Magnifying lens</p> <p>Source of light</p> <p>Containers</p> <p>Cotton wool</p> <p>Proper-PPE</p> <p>Swab</p> <p>Pictures of the</p> <p>Comparison microscope</p> <p>Rifling meter</p> <p>Scissor</p> <p>Camera</p> <p>Sodium rhodizonate</p>

General Objective 3.0: Understand Forensic Ballistics in Crime Scene Reconstruction						
7-10	<p>3.1 Explain the role of ballistics in crime scene reconstruction:</p> <ul style="list-style-type: none"> • The type of firearm used • Firing distance • Bullet trajectory • Shot placement on victims <p>3.2 Explain ballistics and impact analysis:</p> <p>Entry and exit wounds:</p> <ul style="list-style-type: none"> • Wound examination • Distance estimation <p>Impact locations:</p> <ul style="list-style-type: none"> • Surface marks • Reconstruction of events <p>3.3 Explain shooting incident reconstruction:</p> <ul style="list-style-type: none"> • Establishing sequence of events • Collaborating with other disciplines 	<p>Explain the role of ballistics in crime scene reconstruction:</p> <ul style="list-style-type: none"> • The type of firearm used • Firing distance • Bullet trajectory • Shot placement on victims <p>Explain ballistics and impact analysis:</p> <p>Entry and exit wounds:</p> <ul style="list-style-type: none"> • Wound examination • Distance estimation <p>Impact locations:</p> <ul style="list-style-type: none"> • Surface marks • Reconstruction of events <p>Explain shooting incident reconstruction:</p> <ul style="list-style-type: none"> • Establishing sequence of events • Collaborating with other disciplines 	<p>Textbooks</p> <p>Pictures</p> <p>Charts</p> <p>Books</p> <p>Journals</p> <p>Computer</p> <p>Projector</p> <p>Whiteboard</p> <p>Markers</p> <p>Internet resources</p>	<p>Role play in crime scene scenario</p>	<p>Guide students to:</p> <p>Role play in crime scene scenario</p>	<p>Video clips</p> <p>Pictorials</p> <p>Crime scene sketches</p> <p>Crime scene dimensional sketches</p> <p>Simulation software</p>

	<ul style="list-style-type: none"> Utilizing technology (3D simulation) 	<ul style="list-style-type: none"> Utilizing technology (3D simulation) 				
General Objective 4.0: Understand Forensic Ballistic Reports and Testimony						
11-13	<p>4.1 Explain the components of a ballistic report:</p> <p>A case information:</p> <ul style="list-style-type: none"> Sample name Case number Date and time of collection Location Names of involved parties <p>Description of evidence collected:</p> <ul style="list-style-type: none"> Type of evidence Condition of evidence <p>Methodology:</p> <ul style="list-style-type: none"> Collection procedures Analysis techniques <p>Findings:</p> <ul style="list-style-type: none"> Firearm identification Ammunition details Striation analysis Trajectory analysis GSR Analysis 	<p>Explain the components of a ballistic report:</p> <p>A case information:</p> <ul style="list-style-type: none"> Case number Date and time of collection Location Names of involved parties <p>Description of evidence collected:</p> <ul style="list-style-type: none"> Type of evidence Condition of evidence <p>Methodology:</p> <ul style="list-style-type: none"> Collection procedure Analysis techniques <p>Findings:</p> <ul style="list-style-type: none"> Firearm identification Ammunition details Striation analysis Trajectory analysis 	<p>Lecture notes</p> <p>Pictures</p> <p>Charts</p> <p>Books</p> <p>Journals</p> <p>Computer</p> <p>Projector</p> <p>Whiteboard</p> <p>Markers</p> <p>Internet resources</p>	Write a Forensic ballistic report	Guide students to: Write a Forensic ballistic report	Sample Forensic ballistic report

	<p>Conclusion:</p> <ul style="list-style-type: none"> • Summary of findings • Limitations <p>Appendices:</p> <ul style="list-style-type: none"> • Photographs and diagrams • Data tables 	<ul style="list-style-type: none"> • GSR Analysis <p>Conclusion:</p> <ul style="list-style-type: none"> • Summary of findings • Limitations <p>Appendices:</p> <ul style="list-style-type: none"> • Photographs and diagrams • Data tables 				
4.2	Explain the preparation for testimony	Explain the preparation for testimony				
4.3	Explain Testimony structure	Explain Testimony structure				
4.4	<p>Explain best practice for effective testimony:</p> <ul style="list-style-type: none"> • Use clear language • Be objective • Use visual aids 	<p>Explain best practice for effective testimony:</p> <ul style="list-style-type: none"> • Use clear language • Be objective • Use visual aids 				
4.5	Explain expert opinion on forensic ballistics	Explain expert opinion on forensic ballistics				

General Objective 5.0: Understand the Legal Framework in Forensic Ballistics						
13-15	<p>5.1 Explain the laws, regulations and procedures that govern how ballistic evidence is collected, analysed, and presented in Nigerian Legal System</p> <p>5.2 Explain the integrity of forensic investigations and the admissibility of evidence:</p> <ul style="list-style-type: none"> • Chain of Custody • Exhibit keeper <p>5.3 Explain expert's relevant education, training, and experience, which can be scrutinized during legal proceedings</p>	<p>Explain the laws, regulations and procedures that govern how ballistic evidence is collected, analysed, and presented in Nigerian Legal System</p> <p>Explain the integrity of forensic investigations and the admissibility of evidence:</p> <ul style="list-style-type: none"> • Chain of Custody • Exhibit keeper <p>Explain expert's relevant education, training, and experience, which can be scrutinized during legal proceedings</p>	<p>Lecture notes</p> <p>Pictures</p> <p>Charts</p> <p>Books</p> <p>Journals</p> <p>Computer</p> <p>Projector</p> <p>Whiteboard</p> <p>Markers</p> <p>Internet resources</p>	<p>Setup a mock court session</p>	<p>Guide students to:</p> <p>Setup a mock court session</p>	<p>Internet resources</p>

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Document Examination I	Course Code: FRT 214	Contact Hours: 2
	Credit Unit: 2	Theoretical: 1
Year: II Semester: I	Pre-requisite:	Practical: 1
GOAL: This Course is designed to acquaint the student with knowledge and skills of document examination.		
<p>GENERAL OBJECTIVES: At the end of this course, the students should be able to:</p> <p>1.0 Understand principles of Document Examination 2.0 Know Tools and Technology in Document Examination 3.0 Understand Handwriting Analysis 4.0 Understand Paper and Ink Analysis 5.0 Understand Digital Document Security 6.0 Understand legal disposal of documents</p>		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Document Examination I		Course Code: FRT 214		Contact Hours: 2		
		Credit Unit: 2		Theoretical: 1		
Year: II Semester: I		Pre-requisite:		Practical: 1		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This Course is designed to acquaint the student with knowledge and skills of document examination						
General Objective 1.0: Understand principles of Document Examination						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-3	1.1 Define Document	Explain Document	Textbooks	Identify types of documents Distinguish between known and unknown documents	Guide students to: Identify types of documents Distinguish between known and unknown documents	Sample documents Sample disputed documents Magnifying glass Hardware Simulation
	1.2 Define Examination	Explain Examination	Projector			
	1.3 Explain Document Examination	Explain Document Examination	Computer			
	1.4 Explain types of documents: • Handwritten • Printed	Explain types of documents: • Handwritten • Printed	Lecture notes			
	1.5 Explain the historical background of document examination in forensic analysis	Explain the historical background of document examination in forensic analysis	Slides			
	1.6 Explain the importance of Document	Explain the importance of	Markers			
			Eraser			
			Whiteboard			
			Internet resources			
			Software			

	Examination	Document Examination				
	1.7 Explain known and unknown documents	Explain known and unknown documents				
	1.8 State landmark legal cases involving Document Examination	Explain landmark legal cases involving Document Examination				
	1.9 Explain Legal standards and admissibility of evidence	Explain Legal standards and admissibility of evidence				
General Objective 2.0: Know Tools and Technology in Document Examination						
4-6	2.1 Explain use of microscopes and imaging technology in document examination	Explain use of microscopes and imaging technology in document examination	Textbooks Projector Computer Lecture notes Slides	Examine documents using: <ul style="list-style-type: none"> • Microscopes • Magnifying lens • Imager • Software • Hardware • Emerging Technology 	Guide students to: Examine documents using: <ul style="list-style-type: none"> • Microscopes • Magnifying lens • Imager • Software • Hardware • Emerging Technology 	Microscopes Magnifying lens Imager Software Hardware
	2.2 Explain software for digital document examination	Explain software for digital document examination	Markers Eraser Whiteboard Internet resources			
	2.3 Explain emerging technologies in document analysis	Explain emerging technologies in document analysis				

General Objective 3.0: Understand Handwriting Analysis						
7-8	3.1 Explain disputed documents	Explain disputed documents	Text books Projector Computer	Analyze hand written documents for alterations	Guide students to: Analyze hand written documents for alterations	Sample disputed document
	3.2 Explain reference documents	Explain reference documents	Lecture notes Slides Markers			Sample reference document
	3.3 Explain Handwriting analysis	Explain Handwriting analysis	Eraser Whiteboard	Analyze printed documents for alterations	Analyze printed documents for alterations	Microscopes
	3.4 Explain the tools for handwriting analysis	Explain the tools for handwriting analysis	Internet resources			Magnifying lens
	3.5 Explain techniques used for handwriting analysis	Explain techniques used for handwriting analysis		Identify tools for handwriting analysis	Identify tools for handwriting analysis	Measuring Ruler
	3.6 Explain Factors affecting handwriting: • Age • Health etc.	Explain Factors affecting handwriting: • Age • Health etc.		Identify techniques for analyzing handwriting	Identify techniques for analyzing handwriting	Vernier Caliper Light source
	3.7 Explain types of printers: • Laser • Inkjet etc.	Explain types of printers: • Laser • Inkjet etc.				Imager Software Hardware
	3.8 Explain printing identification methods	Explain printing identification methods				

General Objective 4.0: Understand Paper and Ink Analysis						
9-10	4.1 Define paper	Explain paper	Textbooks Projector		Guide students to:	Assorted papers
	4.2 Explain types of paper and their characteristics	Explain types of paper and their characteristics	Computer Lecture notes Slides Markers	Identify types of paper and their characteristics	Identify types of paper and their characteristics	Assorted inks
	4.3 Explain types of ink	Explain types of ink	Eraser Whiteboard	Identify types of inks and their composition	Identify types of inks and their composition	Microscopes
	4.4 Explain Ink composition	Explain Ink composition	Internet resources	Demonstrate techniques for the identification of alterations and forgery	Demonstrate techniques for the identification of alterations and forgery	Magnifying lens
	4.5 Explain the methods of analysis of ink composition	Explain the methods of analysis of ink composition				Imager
	4.6 Explain techniques for identifying alterations and forgery	Explain techniques for identifying alterations and forgery				Software Hardware
General Objective 5.0: Understand Digital Document Security						
11-12	5.1 Define Digital Documents	Explain Digital Documents	Textbooks Projector Computer		Guide students to:	Software for Encryption
	5.2 Explain Encryption methods for digital documents	Explain Encryption methods for digital documents	Lecture notes Slides Markers Eraser	Verify the encryption in digital document. Authenticate Digital Signature	Verify the encryption in digital document. Authenticate Digital Signature	Software for signature verification
	5.3 Explain Digital signatures and authentication	Explain Digital signatures and authentication	Whiteboard Internet resources	Store documents • Cloud • Local	Store documents • Cloud • Local	Storage device Simulation software

	5.4 Explain Secure storage solutions (cloud and local)	Explain Secure storage solutions (cloud and local)				
General Objective 6.0: Understand legal disposal of documents						
13-14	6.1 Define Document disposal 6.2 Explain types of legal document disposal methods <ul style="list-style-type: none"> • Shredding • Burning • Overwrite etc. 6.3 Explain the procedure for document disposal 6.4 Explain the role of documenting disposal activity	Explain Document disposal Explain types of legal document disposal methods <ul style="list-style-type: none"> • Shredding • Burning • Overwrite etc. Explain the procedure for document disposal Explain the role of documenting disposal activity	Text books Projector Computer Lecture notes/slides Markers Eraser Whiteboard Internet resources	Dispose documents legally	Guide students to: Dispose documents legally	Shredder Digital shredder Incinerator Sample disposal register

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Instrumentation and Investigation Technique	Course Code: FRT 215	Contact Hours: 2
	Credit Unit: 2	Theoretical: 1
Year: II Semester: I	Pre-requisite:	Practical: 1
GOAL: This course is designed to equip students with knowledge and skills of instruments used in conducting forensic investigation.		
GENERAL OBJECTIVES: On completion of this course, the students should be able to:		
1.0 Understand instrument and forensic investigation Techniques 2.0 Understand Justice system and presentation of evidence in court. 3.0 Understand methods of suspect identification.		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title Instrumentation and Investigation Technique			Course Code: FRT 215		Contact Hours: 2	
			Credit Unit: 2		Theoretical: 1	
Year: II Semester: I			Pre-requisite:		Practical: 1	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with knowledge and skills of instruments used in conducting forensic investigation.						
General Objective 1.0: Understand instrument and forensic investigation Techniques						
THEORETICAL				PRACTICAL		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-5	1.1 Define instrumentation	Explain instrumentation	Textbooks Computer Internet	Identify instruments used in investigation techniques	Guide students to: Identify instruments used in investigation techniques	Video clips Software
	1.2 Define forensic investigation	Explain forensic investigation	resources Projector Whiteboard	Identify the types of forensic investigation techniques	Identify the types of forensic investigation techniques	Analytical instruments
	1.3 Explain types of forensic investigation techniques	Explain types of forensic investigation techniques	Marker Software Eraser	Show video clips demonstrating methods in forensic investigation	Identify the types of forensic investigation techniques	Microscope
	1.4 Explain instruments used in forensic investigation techniques	Explain instruments used in forensic investigation techniques		Calibrate, standardize, range and limits of instrument in forensic analysis	Show video clips demonstrating methods in forensic investigation	Weighing balance
	1.5 Explain quality control in forensic investigation	Explain quality control in forensic investigation			Calibrate, standardize, range and limits of instrument in forensic analysis	Laboratory hardware and consumables
	1.6 Explain how forensic investigation ensures integrity of traced	Explain how forensic investigation ensures integrity of traced				

	evidence 1.7 Explain calibration, standardization, range and limitation of instrument in forensic analysis	evidence Explain calibration, standardization, range and limitation of instrument in forensic analysis				
General Objective 2.0: Understand Justice system and presentation of evidence in court.						
6-10	2.1 Explain court system and their jurisdiction in Nigeria 2.2 Explain procedure of presentation of evidence in court 2.3 Explain criminal justice system Act 2.4 Explain how data is collected and interpreted in forensic technology 2.5 Explain quality control in ensuring reliability of results obtained from detection methods in	Explain court system and their jurisdiction in Nigeria Explain procedure of presentation of evidence in court Explain criminal justice system Act Explain how data is collected and interpreted in forensic technology Explain quality control in ensuring reliability of results obtained from detection methods in	Textbooks Computer Internet resources Projector Whiteboard Marker Software Eraser	Identify court systems and their jurisdiction in Nigeria Identify procedure of presentation of evidence in court Collect and interpret data in forensic technology. Report reproducibility of result Apply chain of custody to ensure	Guide students to: Identify court systems and their jurisdiction in Nigeria Identify procedure of presentation of evidence in court Collect and interpret data in forensic technology. Report reproducibility of result Apply chain of custody to ensure	Sample data analysis form

	Forensic Technology	Forensic Technology		reliability and validity of results in court	reliability and validity of results in court	
	2.6 Explain reliability and validity of results in court proceedings	Explain reliability and validity of results in court proceedings				
Objective 3.0: Understand methods of suspect identification.						
11-14	3.1 Explain instrument advancements made in the field of forensic technology	Explain instrument advancements made in the field of forensic technology	Textbooks Computer Internet resources Projector Whiteboard			
	3.2 Explain the role of instrumentation in establishing a suspect	Explain the role of instrumentation in establishing a suspect	Marker Software Eraser			
	3.3 Explain the role of instruments in eliminating human biases	Explain the role of instruments in eliminating human biases				
	3.4 List examples of successfully cases with instrument investigation	Explain examples of successfully cases with instrument investigation				
	3.5 Explain links evidence to suspects	Explain links evidence to suspects				

	in criminal investigations	in criminal investigations				
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EVALUATION: C.A: 40%
EXAMINATION: 60%

NATIONAL BOARD FOR TECHNICAL EDUCATION

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Research Methodology in Forensics	Course Code: FRT 216	Contact Hours: 2
	Credit Unit: 2	Theoretical: 2
Year: II Semester: I	Pre-requisite:	Practical: 0
GOAL: This course is designed to equip students with the knowledge of conducting research using scientific and systematic approaches.		
GENERAL OBJECTIVES: On completion of this course, the students should be able to:		
1.0 Understand Scientific Literacy in Forensic Technology 2.0 Understand Research on Evidence 3.0 Understand Innovation and Research in Forensic Technology 4.0 Understand Report Writing in Research		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Research Methodology in Forensics		Course Code: FRT 216		Contact Hours: 2		
		Credit Unit: 2		Theoretical: 2		
Year: II Semester: I		Pre-requisite:		Practical: 0		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with the knowledge of conducting research using scientific and systematic approaches.						
General Objective 1.0: Understand Scientific Literacy in Forensic Technology						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-3	1.1 Define Research	Explain Research	Textbooks			
	1.2 Explain types of research	Explain types of research	Projector			
	1.3 Explain Research Methodology	Explain Research Methodology	Computer			
	1.4 Explain the importance of Research in forensic technology	Explain the importance of Research in forensic technology	Lecture notes			
	1.5 Explain the scientific methods used to collect forensic samples/data	Explain the scientific methods used to collect forensic samples/data	Marker			
			Whiteboard			
			Eraser			
			Internet resources			

	1.6 Explain the scientific methods used to analyze forensic samples/data	Explain the scientific methods used to analyze forensic samples/data				
	1.7 Explain the scientific methods used to interpret forensic evidence	Explain the scientific methods used to interpret forensic evidence				
	1.8 Explain plagiarism in research	Explain plagiarism in research				
	1.9 Explain the importance of anti-plagiarism software	Explain the importance of anti-plagiarism software				
General Objective 2.0: Understand Research on Evidence						
4-8	2.1 Define evidence-based practices	Explain evidence-based practices.	Text books Projector Computer Marker Whiteboard Eraser Journals Internet resources			
	2.2 Explain accuracy in research-based techniques in forensic analysis	Explain Accuracy in research-based techniques in forensic analysis				
	2.3 Explain ethics in research-based techniques in forensic technology	Explain ethics in research-based techniques in forensic technology				

	2.4 Explain objectivity of evidence analysis	Explain objectivity of evidence analysis				
	2.5 Explain reducing subjective interpretations	Explain reducing subjective interpretations				
General Objective 3.0: Understand Innovation and Research in Forensic Technology						
9-11	3.1 Explain new methodologies in existing forensic practices	Explain new methodologies in existing forensic practices	Text books Projector Computer Marker Whiteboard			
	3.2 Explain how collaborative research can improve existing forensic practices	Explain how collaborative research can improve existing forensic practices	Eraser Journals Internet resources			
	3.3 Explain innovation to advanced forensic techniques and technology	Explain innovation to advance forensic techniques and technology				
	3.4 Explain the integrity of evidence in forensic research	Explain the integrity of evidence in forensic research				
General Objective 4.0: Understand Report Writing in Research						
12-14	4.1 Define research report writing	Explain research report writing	Text books Projector Computer			
	4.2 Explain preliminary chapters in research • Abstract	Explain preliminary chapters in research • Abstract	Lecture notes Slides Marker			

	<ul style="list-style-type: none"> • Introduction • Literature review • Methodology • Results • Discussion • Recommendation and conclusion 	<ul style="list-style-type: none"> • Introduction • Literature review • Methodology • Result • Discussion • Recommendation and conclusion 	Whiteboard Eraser Journals Internet resources			
	4.3 Explain referencing in research	Explain referencing in research				

EVALUATION: C.A: 30%
EXAMINATION: 70%

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YEAR II SEMESTER II

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Document Examination II	Course Code: FRT 221	Contact Hours: 3
	Credit Unit: 3	Theoretical: 2
Year: II Semester: II	Pre-requisite: FRT 214	Practical: 1
GOAL: This course is designed to acquaint the student with knowledge and skills of Document Examination		
GENERAL OBJECTIVES: At the end of this course, the students should be able to: 1.0 Understand Forensic Currency 2.0 Understand Currency Security Features 3.0 Understand Counterfeit Detection Techniques 4.0 Understand Currency Examination Techniques 5.0 Understand Ethics and Professional Standards		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY									
Course Title: Document Examination II		Course Code: FRT 221			Contact Hours: 3				
		Credit Unit: 3			Theoretical: 2				
Year: II Semester: II		Pre-requisite: FRT 214			Practical: 1				
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL									
GOAL: This course is designed to acquaint the student with knowledge and skills of Document Examination									
General Objective 1.0: Understand Forensic Currency									
THEORETICAL CONTENT				PRACTICAL CONTENT					
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources			
1-4	1.1 Define Currency	Explain Currency	Textbooks Projector Computer Marker Whiteboard Eraser Journals Internet resources	Identify types of currency and their security features	Guide students to:	Sample Currencies			
	1.2 Explain types of Currency and their security features	Explain types Currency their security features					Identify types of currency and their security features	Identify types of currency and their security features	Sample counterfeit
	1.3 Explain authentic and counterfeit Currencies	Explain authentic and counterfeit Currency					Identify authentic and counterfeit Currency	Identify authentic and counterfeit Currency	Magnifying lens
	1.4 Explain Forensic Currency Examination	Explain Forensic Currency examination					Identify the methods of forensic currency examination	Identify the methods of forensic currency examination	Microscope
	1.5 Explain the importance of forensic currency examination	Explain the importance of forensic currency examination							Light source Black-light

	1.6 Explain roles of Currency Forensics in criminal investigations: <ul style="list-style-type: none"> • Counterfeiting • Money Laundering 	Explain roles of Currency Forensics in criminal investigations: <ul style="list-style-type: none"> • Counterfeiting • Money Laundering 				
General Objective 2.0: Understand Currency Security Features						
5-7	2.1 Define security features of currency 2.2 Explain security features in various currencies: <ul style="list-style-type: none"> • Watermarks • Holograms 2.3 Explain differences between authentic and counterfeit currency 2.4 Explain techniques for visual inspection and detection of counterfeit currency	Explain security features of currency Explain security features in various currencies: <ul style="list-style-type: none"> • Watermarks • Holograms Explain differences between authentic and counterfeit currency Explain techniques for visual inspection and detection of counterfeit currency	Text books Projector Computer Marker Whiteboard Eraser Journals Internet resources	Identify security features in various currencies Identify differences between authentic and counterfeit currency Identify techniques for visual inspection and detection of counterfeit currency	Guide students to: Identify security features in various currencies Identify differences between authentic and counterfeit currency Identify techniques for visual inspection and detection of counterfeit currency	Sample Currencies Sample counterfeit Magnifying lens Microscope Light source Black-light
General Objective 3.0: Understand Counterfeit Detection Techniques						
8-10	3.1 Explain methods for detecting counterfeit currency:	Explain methods for detecting counterfeit currency:	Text books Projector Computer Marker	Identify tools and technologies used for	Guide students to: Identify tools and technologies used	Sample Currencies Sample

	<ul style="list-style-type: none"> UV light Infrared analysis 	<ul style="list-style-type: none"> UV light Infrared analysis 	Whiteboard Eraser Journals Internet resources	Counterfeit detection Identify counterfeit currencies	for Counterfeit detection Identify counterfeit currencies	counterfeit Magnifying lens Microscope Light source Black-light
General Objective 4.0: Understand Currency Examination Techniques						
11-12	<p>4.1 Define Physical Examination of currency</p> <p>4.2 Explain Physical examination methods of currency:</p> <ul style="list-style-type: none"> Weight Texture Size <p>4.3 Explain chemical analysis of currency materials</p> <p>4.4 Explain Digital imaging</p> <p>4.5 Explain Digital Imaging analysis for detailed examination</p>	<p>Explain Physical Examination of currency</p> <p>Explain Physical examination methods of currency:</p> <ul style="list-style-type: none"> Weight Texture Size <p>Explain Chemical analysis of currency materials</p> <p>Explain Digital imaging</p> <p>Explain Digital imaging and analysis for detailed examination</p>	Text books Projector Computer Marker Whiteboard Eraser Journals Internet resources	Identify physical examination methods of currency Identify chemical analysis of currency materials Identify digital imaging procedure Visit currency Forensics Laboratory	Guide students to: Identify physical examination methods of currency Identify chemical analysis of currency materials Identify digital imaging procedure Visit currency Forensics Laboratory	Sample Currencies Sample counterfeit Magnifying lens Microscope Light source Black-light

General Objective 5.0: Understand Ethics and Professional Standards						
13-15	5.1 Explain ethical considerations in document examination	Explain ethical considerations in document examination	Text books Projector Computer Marker			
	5.2 Explain Laws and regulations related to currency and counterfeiting (e.g., Nigerian Money Regulation)	Explain Laws and regulations related to currency and counterfeiting (e.g., Nigerian Money Regulation)	Whiteboard Eraser Journals Internet resources			
	5.3 Explain the legal implications of currency examination	Explain the legal implications of currency examination				
	5.4 Explain Case studies of currency-related crimes	Explain Case studies of currency-related crimes				
	5.5 Explain Professional organizations and certifications	Explain Professional organizations and certifications				
	5.6 Explain Importance of continuing education and training	Explain Importance of continuing education and training				

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Legal Framework in Forensics	Course Code: FRT 222	Contact Hours: 2
	Credit Unit: 2	Theoretical: 2
Year: II Semester: II	Pre-requisite:	Practical: 0
GOAL: This course is designed to provide students with knowledge of legal framework in forensics		
<p>GENERAL OBJECTIVES: On completion of this course, the students should be able to:</p> <ul style="list-style-type: none"> 1.0 Understand Nigeria Legal System in relation to forensics 2.0 Understand the legal provision for the collection of forensic evidence 3.0 Understand the legality of Chain of Custody 4.0 Understand the legal provision for the analysis of forensic evidence 5.0 Understand Primary and Secondary Documentary Evidence 6.0 Understand the legal framework for admissibility of forensic evidence 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Legal Framework in Forensics		Course Code: FRT 222		Contact Hours: 2		
		Credit Unit: 2		Theoretical: 2		
Year: II Semester: II		Pre-requisite:		Practical: 0		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to provide students with knowledge of legal framework in forensics						
General Objective 1.0: Understand Nigeria Legal System in relation to forensics						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-4	1.1 Explain Nigerian Legal System	Explain Nigerian Legal System	Textbooks Marker Whiteboard			
	1.2 Explain Nigerian Criminal Justice System	Explain Nigerian Criminal Justice System	Internet resources Nigerian Constitution			
	1.3 Explain Nigerian criminal justice system in relation to forensic evidence	Explain Nigerian criminal justice system in relation to forensic evidence	Laws of the Federation			
	1.4 Explain Evidence (Amended) Act, 2023	Explain Evidence (Amended) Act, 2023				
	1.5 Explain the principles of "Need to Know".	Explain the principles of "Need to Know".				

	<ul style="list-style-type: none"> Evidence Act, 2011 	<ul style="list-style-type: none"> Evidence Act, 2011 				
	1.6 Explain Data Protection Regulation (2019)	Explain Data Protection Regulation (2019)				
	1.7 Explain Computer Security Act (2010)	Explain Computer Security Act (2010)				
	1.8 Explain Nigeria Police Act 2020	Explain Nigeria Police Act 2020				
	1.9 Explain Cybercrime (Prohibition, Prevention, etc.) Act, 2015	Explain Cybercrime (Prohibition, Prevention, etc.) Act, 2015				
	1.10 Explain Terrorism (Prevention) Act 2011	Explain Terrorism (Prevention) Act 2011				
General Objective 2.0: Understand the legal provision for the collection of forensic evidence						
5-7	2.1 Explain the expertise in collection of forensic evidence	Explain the expertise in collection of forensic evidence	Marker different colors Board			
	2.2 Explain Evidence Act 2011 relating to the collection of evidence	Explain Evidence Act 2011 relating to the collection of evidence	Internet resources Nigerian Constitution			

	2.3 Explain the appropriate forensic tools for evidence collection	Explain the appropriate forensic tools for evidence collection	Laws of the Federation			
General Objective 3.0: Understand the legality of Chain of Custody						
8-10	3.1 Define Chain of Custody as it relates to criminal justice system	Explain Chain of Custody as it relates to criminal justice system	Slides Lecture notes Marker different colors Board Internet resources Nigerian Constitution Laws of the Federation Sample forms	Mock court sessions Fill chain of custody form Handle forensic evidence Dispose forensic evidence legally Comply with the regulatory rules in disposing forensic evidence	Guide students to: Mock court sessions Fill chain of custody form Handle forensic evidence Dispose forensic evidence legally Comply with the regulatory rules in disposing forensic evidence	Sample chain of custody forms Forensic handling equipment Forensic tool box
	3.2 Explain chain of custody form	Explain chain of custody form				
	3.3 Explain the Filling of chain of custody form	Explain the Filling of chain of custody form				
	3.4 Explain meaning of the expression “Proper Custody”	Explain meaning of expression “Proper Custody”				
	3.5 Explain the legality of ‘Need to Hold’ principle in forensic	Explain the legality of ‘Need to Hold’ principle in forensic				
	3.6 Explain Handling of forensic evidence	Explain Handling of forensic evidence				
	3.7 Explain the legally acceptable ways of forensics evidence disposal	Explain the legally acceptable ways of forensics evidence disposal				

	<p>3.8 Explain the regulatory compliance of forensics evidence disposal.</p> <ul style="list-style-type: none"> • Record keeping • Quality control • Chemical destruction • Secure electronic deletion 	<p>Explain the regulatory compliance of forensics evidence disposal.</p> <ul style="list-style-type: none"> • Record keeping • Quality control • Chemical destruction • Secure electronic deletion 				
General Objective 4.0: Understand the legal provision for the analysis of forensic evidence						
11-12	<p>4.1 Explain the use of appropriate forensic tools for evidence analysis</p> <p>4.2 Explain Evidence Act 2011 relating to the analysis of evidence</p> <p>4.3 Explain procedure of presentation of evidence in court</p>	<p>Explain the use of appropriate forensic tools for evidence analysis</p> <p>Explain Evidence Act 2011 relating to the analysis of evidence</p> <p>Explain procedure of presentation of evidence in court</p>	<p>Markers</p> <p>Whiteboard</p> <p>Internet resources</p> <p>Nigerian Constitution</p> <p>Laws of the Federation</p>			
General Objective 5.0: Understand Primary and Secondary Documentary Evidence						
13-14	<p>5.1 Explain Proof of contents of document</p> <p>5.2 Explain Primary evidence</p> <p>5.3 Explain types of Primary Evidence</p>	<p>Explain Proof of contents of document</p> <p>Explain Primary evidence</p> <p>Explain types of Primary Evidence</p>	<p>Slides</p> <p>Lecture notes</p> <p>Marker</p> <p>different colors</p> <p>Board</p> <p>Internet resources</p>			

	<ul style="list-style-type: none"> • Original document • Witness statement • DNA samples • Fingerprints 	<ul style="list-style-type: none"> • Original document • Witness statement • DNA samples • Fingerprints 	<p>Nigerian Constitution</p> <p>Laws of the Federation</p>			
5.4	Explain Secondary evidence	Explain Secondary evidence				
5.5	<p>Explain Types of Secondary evidence</p> <ul style="list-style-type: none"> • Photocopies of original document • Second hand information • Expert analysis • Statistical analysis 	<p>Explain Types of Secondary evidence</p> <ul style="list-style-type: none"> • Photocopies of original document • Second hand information • Expert analysis • Statistical analysis 				
5.6	Explain instances where primary or secondary evidence may be considered admissible before the court of law	Explain instances where primary or secondary evidence may be considered admissible in law				
5.7	Explain instances where secondary evidence may be admissible before the court of law	Explain instances where secondary evidence may be admissible before the court of law				

	5.8 Explain the weighing of the credibility of a witness	Explain the weighing of the credibility of a witness				
General Objective 6.0: Understand the legal framework for admissibility of forensic evidence						
15	6.1 Explain admissibility of evidence <ul style="list-style-type: none"> Digital evidence Biological evidence Ballistic evidence etc. 6.2 Explain Confidentiality in Forensic investigation 6.3 Explain Integrity of evidence in Forensic investigation 6.4 Explain Availability of evidence in Forensic investigation 6.5 Explain Computer Security Act (2010) in handling forensic evidence	Explain admissibility of evidence <ul style="list-style-type: none"> Digital evidence Biological evidence Ballistic evidence etc. Explain Confidentiality in Forensic investigation Explain Integrity of evidence in Forensic investigation Explain Availability of evidence in Forensic investigation Explain Computer Security Act (2010) in handling forensic evidence	Slides Lecture notes Marker different colors Board Internet resources Nigerian Constitution Laws of the Federation Boundary Tapes, Marker of different colors, Board, Constitution, Laws of the Federation			

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Economic Offences	Course Code: FRT 223	Contact Hours: 2
	Credit Unit: 2	Theoretical: 2
Year: II Semester: II	Pre-requisite:	Practical: 0
GOAL: This course is designed to equip students with the knowledge of economic offenses.		
GENERAL OBJECTIVE: At the end of this course, the students should be able to:		
<ul style="list-style-type: none"> 1.0 Understand Asset Misappropriation 2.0 Understand bribery and corruption 3.0 Understand customer fraud 4.0 Understand fraud in procurement 5.0 Understand cybercrime 6.0 Understand money laundering 7.0 Understand tax fraud 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Economic Offences		Course Code: FRT 223			Contact Hours: 2	
		Credit Unit: 2			Theoretical: 2	
Year: II Semester: II		Pre-requisite:			Practical: 0	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with the knowledge of economic offenses						
GENERAL OBJECTIVE 1.0: Understand Asset Misappropriation						
THEORETICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-3	1.1 Define asset	Explain asset	Text books Projector			
	1.2 Explain classification of assets	Explain classification of asset	Computer Markers Whiteboard			
	1.3 Explain Asset misappropriation	Explain Asset misappropriation	Eraser Journal Internet resources			
	1.4 Explain different states of misappropriation in the public office	Explain Different states of misappropriation in the public office				
	1.5 Explain different states of misappropriations in the private sectors	Explain different states of misappropriations in the private sectors				
	1.6 Explain the economic impact of asset	Explain the economic impact of asset				

	misappropriation to the government and private sectors	misappropriation to the government and private sectors				
	1.7 Explain measures to address misappropriation in private and public sectors	Explain measures to address misappropriation in private and public sectors				
General Objective 2.0: Understand bribery and corruption						
4-6	2.1 Define bribe	Explain bribe	Text books			
	2.2 Define corruption	Explain corruption	Projector			
	2.3 Explain types of bribery and corruption in public office	Explain types of bribery and corruption in public office	Computer			
	2.4 Explain types of bribery and corruption in private office	Explain types of bribery and corruption in private office	Markers			
	2.5 Explain the impact of bribery and corruption to the development of Nigeria	Explain the impact of bribery and corruption to the development of Nigeria	Whiteboard			
	2.6 Explain procedures of investigating corruption and applicable laws in Nigeria	Explain procedures of investigating corruption and applicable laws in Nigeria	Eraser			
			Journal			
			Internet resources			

	2.7 Explain the role of regulatory agencies in curbing bribery and corruption	Explain the role of regulatory agencies in curbing bribery and corruption				
	2.8 Explain ICPC Act 2000	Explain ICPC Act 2000				
	2.9 Explain EFFC Act 2004	Explain EFFC Act 2004				
General Objective 3.0: Understand customer fraud						
7-8	3.1 Define a customer	Explain a customer	Text books			
	3.2 Explain the classification of customers	Explain the classification of customers	Projector			
	3.3 Define fraud	Explain fraud	Computer			
	3.4 Define customer fraud	Explain customer fraud	Markers			
	3.5 Explain prevalent cases of Customer fraud	Explain prevalent cases of Customer fraud	Whiteboard			
	3.6 Explain investigation process and applicable laws in Customer fraud	Explain investigation process and applicable laws in Customer fraud	Eraser			
	3.7 Explain measures taken by the Government to address Customer fraud	Explain measures taken by the Government to address Customer fraud	Journal			
	3.8 Explain the role of regulatory agencies in curbing Customer fraud	Explain the role of regulatory agencies in curbing Customer fraud	Internet resources			

General Objective 4.0: Understand fraud in procurement						
9-10	4.1 Define procurement	Define procurement	Text books			
	4.2 Explain the difference between public and private procurements	Explain the difference between public and private procurements	Projector Computer Marker Whiteboard Eraser			
	4.3 Explain types of procurements	Explain types of procurements	Journal Pamphlets Internet resources			
	4.4 Define procurement fraud	Define procurement fraud				
	4.5 Explain prevalent cases of procurement fraud	Explain prevalent cases of procurement fraud				
	4.6 Explain how procurement fraud is carried out	Explain how procurement fraud is carried out				
	4.7 Explain investigation process and applicable laws in procurement fraud	Explain investigation process and applicable laws in procurement fraud				
General Objective 5.0: Understand cybercrime						
11-12	5.1 Define cybercrime	Explain cybercrime	Text books			
	5.2 Explain types of cyber crimes	Explain types of cyber crimes	Projector Computer Markers Whiteboard			
	5.3 Explain how cybercrime offences impact on Government activities	Explain how cybercrime offences impact on Government activities	Eraser Journal Internet			

	5.4 Explain the impact of cybercrime offences to the development of Nigeria	Explain the impact of cybercrime offences to the development of Nigeria	resources			
	5.5 Explain the role of regulatory agencies in fighting cybercrime	Explain the role of regulatory agencies in fighting cybercrime				
	5.6 Explain methods of preventing cybercrime	Explain methods of preventing cybercrime				
General Objective 6.0: Understand money laundering						
13-14	6.1 Define money laundering	Explain money laundering	Text books			
	6.2 Explain types of money launderings	Explain types of money launderings	Projector Computer Markers Whiteboard Eraser			
	6.3 Explain the role of international agencies in investigating money laundering	Explain the role of international agencies in investigating money laundering	Journal Internet resources Sample documents			
	6.4 Explain the process of investigating money launderings	Explain the process of investigating money launderings				
	6.5 Explain the impact of money laundering to	Explain the impact of money laundering to				

	Developing Countries	Developing Countries				
General Objective 7.0: Understand tax fraud						
15	7.1 Define Tax and Taxation	Explain Tax and Taxation	Text books			
	7.2 Define tax fraud	Explain tax fraud	Projector			
	7.3 Explain types of tax fraud	Explain types of tax fraud	Computer			
	7.4 Explain manner of commissioning of tax fraud	Explain manner of commissioning of tax fraud	Lecture notes			
	7.5 Explain tax evasion	Explain tax evasion	Slides			
	7.6 Explain the role of international agencies in fighting tax fraud	Explain the role of international agencies in fighting tax fraud	Markers			
			Whiteboard			
			Eraser			
			Journal			
			Internet resources			

EVALUATION: C.A: 30%
EXAMINATION: 70%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Handwriting	Course Code: FRT 224	Contact Hours: 3
	Credit Unit: 3	Theoretical: 1
Year: II Semester: II	Pre-requisite:	Practical: 2
GOAL: This course is designed to provide students with the knowledge and skills of forensic handwriting examination.		
GENERAL OBJECTIVES: On completion of this course, the students should be able to:		
1.0 Understand the Fundamentals of Forensic Handwriting 2.0 Know the tools and technology in Handwriting Analysis 3.0 Understand the Legal provision of Handwriting Examination 4.0 Understand Report Writing and Interpretation in forensic investigation		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY							
Course Title: Forensic Handwriting		Course Code: FRT 224			Contact Hours: 3		
		Credit Unit: 3			Theoretical: 1		
Year: II Semester: II		Pre-requisite:			Practical: 2		
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL							
GOAL: This course is designed to provide students with the knowledge and skills of forensic handwriting examination							
General Objective 1.0: Understand the Fundamentals of Forensic Handwriting							
THEORETICAL CONTENT				PRACTICAL CONTENT			
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources	
1-4	1.1 Define Forensic handwriting	Explain Forensic handwriting	Textbooks Projector Computer	Identify styles of handwriting in forensic investigation Identify internal consistency of handwriting	Guide students to:	Magnifying lens	
	1.2 Explain the importance and historical context of forensic handwriting	Explain the importance and historical context of forensic handwriting	Markers Whiteboard Eraser Journal Internet resources		Identify styles of handwriting in forensic investigation	Identify styles of handwriting in forensic investigation	Cardboard paper Assorted Pens
	1.3 Explain the fundamental features of forensic handwriting	Explain the fundamental features of forensic handwriting			Identify internal consistency of handwriting	Identify internal consistency of handwriting	Measuring ruler
	1.4 Explain forged handwriting	Explain forged handwriting					
General Objective 2.0: Know the tools and technology in Handwriting Analysis							
5-8	2.1 Explain the usage of Microscopes and imaging software	Explain the usage of Microscopes and imaging software	Text books Projector Computer Lecture	Identify altered documents and	Guide students to: Identify altered documents and	Microscopes Imaging software	

	2.2 Explain Digital Handwriting Analysis	Explain Digital Handwriting Analysis	notes Slides Markers Whiteboard	markings Cite different case studies	markings Cite different case studies	Stylus-based devices
	2.3 Explain case studies in handwriting analysis	Explain case studies in handwriting analysis	Eraser Journal Internet resources	Demonstrate handwriting analysis with the aid of	Demonstrate handwriting analysis with the aid of	Stylus-and fingertip-based devices,
	2.4 Explain technological applications in handwriting analysis	Explain technological applications in handwriting analysis		Microscopes and imaging software	Microscopes and imaging software	3D motion-based devices
General Objective 3.0: Know the Legal provision of Handwriting Examination						
9-11	3.1 Explain Legal Framework of forensic handwriting	Explain Legal Framework of forensic handwriting	Text books Projector Computer Lecture notes Slides Marker			
	3.2 Explain <ul style="list-style-type: none"> Admissibility of evidence Standards of Proof 	Explain <ul style="list-style-type: none"> Admissibility of evidence Standards of Proof 	Whiteboard Eraser Journal Internet resources			
	3.3 Explain Ethical Considerations of : <ul style="list-style-type: none"> Chain of Custody Expert Testimony 	Explain Ethical Considerations of: <ul style="list-style-type: none"> Chain of Custody Expert 				

		Testimony				
	3.4 Explain the technical aspects of Handwriting analysis	Explain the technical aspects of Handwriting analysis				
General Objective 4.0: Understand Report Writing and Interpretation in forensic investigation						
13-14	4.1 Explain Report Writing	Explain Report Writing	Text books Projector Computer	Analyze quantitative and qualitative data	Guide students to: Analyze quantitative and qualitative data	Sample report
	4.2 Explain the purpose of Report Writing	Explain the purpose of Report Writing	Lecture notes Slides	Write a Report in conformity with the rules guiding Structure of Reports	Write a Report in conformity with the rules guiding Structure of Reports	
	4.3 Explain structure of Reports	Explain structure of Reports	Marker Whiteboard Eraser	Interpret Reports in conformity with the rules guiding Interpretation of Reports	Interpret Reports in conformity with the rules guiding Interpretation of Reports	
	4.4 Explain Interpretation of Reports • Understanding Data • Contextual Analysis • Decision Making	Explain Interpretation of Reports • Understanding Data • Contextual Analysis • Decision Making	Journal Internet resources	Carryout decision making processes using report findings in Forensic technology	Carryout decision making processes using report findings in Forensic technology	

EVALUATION: C.A: 40%
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY		
Course Title: Forensic Accounting	Course Code: FRT 225	Contact Hours: 3
	Credit Unit: 3	Theoretical: 2
Year: II Semester: II	Pre-requisite:	Practical: 1
GOAL: This course is designed to equip students with the knowledge and skills of forensic accounting to investigate financial crimes.		
GENERAL OBJECTIVE: At the end of this course, the students should be able to:		
<ul style="list-style-type: none"> 1.0 Understand the concept of financial accounting 2.0 Understand Internal Audit and review 3.0 Understand Auditors' and Management Responsibilities 4.0 Understand Financial Crime 5.0 Understand Fraud Risk Management 6.0 Understand the principles of forensic accounting 7.0 Understand Forensic Accounting Investigation Engagement 8.0 Know Forensic accounting Investigation 		

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
Course Title: Forensic Accounting		Course Code: FRT 225			Contact Hours: 3	
		Credit Unit: 3			Theoretical: 2	
Year: II Semester: II		Pre-requisite:			Practical: 1	
COURSE SPECIFICATION: THEORETICAL AND PRACTICAL						
GOAL: This course is designed to equip students with the knowledge and skills of forensic accounting to investigate financial crimes.						
General Objective 1.0: Understand the concept of financial accounting						
THEORATICAL CONTENT				PRACTICAL CONTENT		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-2	1.1 Define financial accounting	Explain financial accounting	Textbooks Projector Computer	Prepare a hypothetical financial statements	Guide students to: Prepare a hypothetical financial statements	Calculator Computer Sample financial statements/ reports Accounting reporting standards
	1.2 Explain general accounting concepts and conventions	Explain general accounting concepts and conventions	Lecture notes Slides Markers			
	1.3 Explain double entry concept	Explain double entry concept	Whiteboard Eraser			
	1.4 Explain accounting reporting standards	Explain accounting reporting standards	Internet resources Software			
	1.5 Explain financial statements	Explain financial statements				
	1.6 Explain the importance of accounting in forensic investigation	Explain the importance of accounting in forensic investigation				

General Objective 2.0: Understand Internal Audit and review						
3	2.1 Define Audit	Explain Audit	Text books Projector			
	2.2 Explain internal audit and review	Explain internal audit and review	Computer Markers Board			
	2.3 Explain the scope of internal Audit	Explain the scope of internal Audit	Eraser Internet resources			
	2.4 Explain the functions of internal Auditor	Explain the functions of internal Auditor	Software			
	2.5 Explain the merits and demerits of outsourcing of internal audit function	Explain the merits and demerits of outsourcing of internal audit function				
General Objective 3.0: Understand Auditors' and Management Responsibilities						
4	3.1 Explain management responsibilities for: <ul style="list-style-type: none"> • Quality control • Integrity and Reliability • Internal control of the financial reporting process	Explain management responsibilities for: <ul style="list-style-type: none"> • Quality control • Integrity and Reliability • Internal control of the financial reporting process.	Text books Projector Computer Lecture notes/ slides Marker Whiteboard Eraser Internet resources			
	3.2 Explain the role internal auditor plays in preventing internal fraud	Explain the role internal auditor plays in preventing internal fraud	Softwares			
	3.3 Explain the main responsibilities of an external Auditor					

		Explain the main responsibilities of an external Auditor				
General Objective 4.0: Understand Financial Crime						
5	4.1 Define financial crime	Explain financial crime	Text books Projector			
	4.2 Explain the prevalence of financial crime	Explain the prevalence of financial crime	Computer Markers Whiteboard			
	4.3 Explain fraud triangle	Explain fraud triangle	Eraser Internet resources			
	4.4 Explain the types of financial crime	Explain the types of financial crime	Software			
	4.5 Explain the channels of financial crime	Explain the channels of financial crime				
	4.6 Explain “Bad Actors”	Explain “Bad Actors”				
	4.7 Explain ways of combating financial crime	Explain ways of combating financial crime				
General Objective 5.0: Understand Fraud Risk Management						
6-7	5.1 Define Fraud risk	Explain Fraud risk	Text books Projector			
	5.2 Explain Fraud risk governance	Explain Fraud risk governance	Computer Markers Whiteboard			
	5.3 Explain Fraud risk assessment	Explain Fraud risk assessment	Eraser Internet resources			
	5.4 Explain Fraud risk	Explain Fraud risk	Software			

	mitigation 5.5 Explain: <ul style="list-style-type: none"> • Fraud risk analysis • Fraud risk reporting • Fraud risk escalation 5.6 Explain Incidence and response management plan	mitigation Explain: <ul style="list-style-type: none"> • Fraud risk analysis • Fraud risk reporting • Fraud risk escalation Explain Incidence and response management plan				
General Objective 6.0: Understand the principles of forensic accounting						
8-10	6.1 Define Forensic Accounting 6.2 Define fraud examination 6.3 Explain the difference between Forensic Accounting and fraud examination 6.4 Explain the role and responsibilities of fraud Examiners 6.5 Explain the role and responsibilities of Forensic Accountant	Explain Forensic Accounting Explain fraud examination Explain the difference between Forensic Accounting and fraud examination Explain the role and responsibilities of fraud Examiners Explain the role and responsibilities of Forensic Accountant	Text books Projector Computer Lecture notes/ slides Marker Board Eraser Internet resources Software	Conduct using case study: <ul style="list-style-type: none"> • Forensic Accounting • Fraud examination 	Guide students to: Conduct using case study: <ul style="list-style-type: none"> • Forensic Accounting • Fraud examination 	Calculator Computer Sample financial statements/ reports Sample cases

	6.6 Explain professional standards governing Forensic accountant/fraud examiner	Explain professional standards governing Forensic accountant/fraud examiner				
General Objective 7.0: Understand Forensic Accounting Investigation Engagement						
11-12	7.1 Explain Forensic Accounting Investigation	Explain Forensic Accounting Investigation	Text books Projector Computer Lecture notes Slides	Identify Forensic Accounting Investigation methods	Guide students to: Identify Forensic Accounting Investigation methods	Sample programme template
	7.2 Explain Forensic Accounting Investigation methodology	Explain Forensic Accounting Investigation methodology	Marker Whiteboard Eraser Internet resources Softwares	Design an investigation programme	Design an investigation programme	Sample team template Accounting software
	7.3 Explain the design of forensic accounting investigation programme	Explain the design of forensic accounting investigation programme		Assemble an investigation team	Assemble an investigation team	
	7.4 Explain Assembling of forensic accounting investigation team	Explain Assembling of forensic accounting investigation team				
	7.5 Explain Adaptive process analysis	Explain Adaptive process analysis				
	7.6 Explain the fraud theory approach	Explain the fraud theory approach				

General Objective 8.0: Know Forensic accounting Investigation						
13-15	8.1 Explain accounting evidence collection	Explain Evidence collection	Text books Projector Computer Marker Whiteboard Eraser Internet resources Software		Guide students to:	Sample data sets
	8.2 Explain effective interview techniques	Explain effective interview techniques		Carryout accounting evidence collection	Carryout accounting evidence collection	Sample accounting documents
	8.3 Explain accounting evidence preservation and documentation	Explain accounting evidence preservation and documentation		Demonstrate effective interview techniques	Demonstrate effective interview techniques	Audio-visual equipment
	8.4 Explain accounting evidence analysis and Reporting	Explain accounting evidence analysis and Reporting		Preserve accounting evidence and documents	Preserve accounting evidence and documents	Accounting software
	8.5 Explain the role of financial crime regulatory agencies	Explain the role of financial crime regulatory agencies		Analyse accounting evidence	Analyse accounting evidence	Files jackets
				Report accounting investigation	Report accounting investigation	Sample financial statements
						Sample accounting investigation report

EVALUATION: C.A: 40%
EXAMINATION: 60%

FORENSIC TECHNOLOGY PRACTICAL MANUAL

<p>Introduction To Crime Scene Management FRT 112</p>	<ol style="list-style-type: none"> 1. Identify physical, biological, digital sample and evidence 2. Collect sample and evidence and preserve with proper packaging and labelling methods 3. Apply safety protocols for handling sample and evidence, including the use of Proper Personal Protective Equipment-PPE) 4. Briefing and Debriefing before and after the crime scene investigation 5. Identify the methods of reconstruction Scene Reconstruction 6. Identify a reconstructed crime scene with Forensic tools.
<p>Crime Scene Management (CSM) FRT 121</p>	<ol style="list-style-type: none"> 1. Demonstrate how to Set up a crime scene: <ul style="list-style-type: none"> • Identification • Collection • Packaging • Documentation • Transportation of relevant samples and evidence to the crime being investigated 2. Demonstrate convention labelling for samples and evidence 3. Apply photography and videography as tools of documentation 4. Identify methods of collecting samples and evidence at crime scene 5. Identify methods of collecting samples and evidence at crime scene 6. Identification of case report from forensic practitioners 7. Review of case reports 8. Visit a court to observe proceeding 9. Mock session 10. Write report

Forensic Anthropology 1 FRT 122	<ol style="list-style-type: none"> 1. Identify the race, gender, age using human skeleton 2. Simulation to identify, classify and compare with natural skeleton 3. Carry out body weight and height measurement 4. Carry out body segment length 5. Carry out body girth measurement 6. Carry out body mass index 7. Carry out head and eye measurement
Introduction To Digital Forensics FRT 123	<ol style="list-style-type: none"> 1. Identify the types of Cybercrime <ul style="list-style-type: none"> • Hacking • Phishing • Digital Identity theft • DDoS etc 2. Identify Digital evidence from various sources: <ul style="list-style-type: none"> • Hard drives • Flash drives • Networks • Mobile devices • Data banks 3. Simulate a crime scene and carryout investigations using digital tools
Introduction to Fingerprints FRT 124	<ol style="list-style-type: none"> 1. Carryout fingerprint identification 2. Carryout fingerprint matching 3. Identify context and potential errors in taking and analysing fingerprint 4. Identify new technologies of fingerprint matching 5. Demonstrate interactions of light and matter in fingerprint

	<p>analysis</p> <ol style="list-style-type: none">6. Carryout chemical tests in fingerprint analysis7. Take fingerprint8. Take inked fingerprint9. Take fingerprints using ten-print cards and ink pad10. Use cleaning agents after taking fingerprint<ul style="list-style-type: none">• Alcohol• Water and Soap• Paper towels11. Demonstrate lifting prints using dusting techniques12. Identify types of latent fingerprint powders13. Break into groups:<ul style="list-style-type: none">• Lay fingerprints on surfaces.• Apply the specialized powder on the surface• Lift the latent prints with the tape• Transfer to the fingerprint paper.• Analyze the results14. Conclude which powders work best on different surfaces15. Use ninhydrin solution to develop fingerprint from a porous surface16. Immerse porous surface into ninhydrin solution and dry without touching surface17. Apply iron solution to develop the invisible latent prints18. Preserve fingerprints19. Conduct analysis using:<ul style="list-style-type: none">• Patterns of fingerprint• Ridge Characteristics
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	20. Compare fingerprints
Forensic Biology FRT 125	<ol style="list-style-type: none"> 1. Identify types of samples 2. Identify types of sample containers/bottles 3. Identify containers specifications 4. Carryout collection of samples 5. Carryout precautionary measures for general and specific handling of biological samples 6. Identify equipment used for analysis of biological samples 7. Carry out Point Of Care Testing (POCT) 8. Carry out simple spectrophotometry test
Forensic Chemistry FRT 126	<ol style="list-style-type: none"> 1. Conduct: <ul style="list-style-type: none"> • Chromatography • Spectrometry • Non-destructive techniques etc. 2. Apply safety measures for handling chemicals in a laboratory. 3. Identify and analyse samples, evidence and control 4. Collect, preserve and analyse chemical samples and evidence
Forensic Anthropology II FRT 211	<ol style="list-style-type: none"> 1. Identify bones of human skeleton 2. Identify the differences in human skeleton based on gender, age and laterality 3. Identify bones of human skeleton from other bones 4. Identify the differences in human skeleton based on gender, age and laterality 5. Identify fractures on human bones
Forensic Pathology FRT 212	<ol style="list-style-type: none"> 1. Visit hospitals/Morgues and observe post mortem examination 2. Identify the common post-mortem changes after death 3. Identify common substances tested for post-mortem toxicology 4. Identify types of assaults

	<ol style="list-style-type: none"> 5. Interpret assault patterns and correlate them with potential scenarios 6. Report Assault findings 7. Visit hospitals/Morgues and observe post mortem examination 8. Demonstrate sample collection, preservation, transportation and storage 9. Handle dummy reports and enter in a register 10. Identify samples for toxicology analysis 11. Demonstrate methods of collection, preservation and storage of samples for toxicology 12. Perform urine toxicology using test strips 13. Detect, assay quantitative and qualitative: <ul style="list-style-type: none"> • Bio-chemical • Trace elements 14. Utilize selective migration to generate chromatograms of : <ul style="list-style-type: none"> • Bio-chemical • Organic compounds
<p>Forensic Ballistics FRT 213</p>	<ol style="list-style-type: none"> 1. Visit Law Enforcement Training institutes 2. Identify types of Firearm 3. Identify ammunition components 4. Apply safety protocols for handling ballistic evidence 5. Visit Law Enforcement Training institutes 6. Identify process of ballistic evidence collection 7. Write report 8. Role play in crime scene scenario 9. Write a Forensic ballistic report 10. Setup a mock court session
<p>Document Examination I</p>	

FRT 214	<ol style="list-style-type: none"> 1. Identify types of documents 2. Distinguish between known and unknown documents 3. Examine documents using: <ul style="list-style-type: none"> • Microscopes • Magnifying lens • Imager • Software • Hardware • Emerging Technology 4. Analyze hand written documents for alterations 5. Analyze printed documents for alterations 6. Identify tools for handwriting analysis 7. Identify techniques for analyzing handwriting 8. Identify types of paper and their characteristics 9. Identify types of inks and their composition 10. Demonstrate techniques for the identification of alterations and forgery 11. Verify the encryption in digital document. 12. Authenticate Digital Signature 13. Store documents: <ul style="list-style-type: none"> • Cloud • Local 14. Dispose documents legally
Instrumentation and Investigation Technique FRT 215	<ol style="list-style-type: none"> 1. Identify instruments used in investigation techniques 2. Identify the types of forensic investigation techniques 3. Show video clips demonstrating methods in forensic

	<p>investigation</p> <ol style="list-style-type: none"> 4. Calibrate, standardize, range and limits of instrument in forensic analysis 5. Identify court systems and their jurisdiction in Nigeria 6. Identify procedure of presentation of evidence in court 7. Collect and interpret data in forensic technology. 8. Report reproducibility of result 9. Apply chain of custody to ensure reliability and validity of results in court
<p>Document Examination II FRT 221</p>	<ol style="list-style-type: none"> 1. Identify types of currency and their security features 2. Identify authentic and counterfeit Currency 3. Identify the methods of forensic currency examination 4. Identify security features in various currencies 5. Identify differences between authentic and counterfeit currency 6. Identify techniques for visual inspection and detection of counterfeit currency 7. Identify tools and technologies used for Counterfeit detection 8. Identify counterfeit currencies 9. Identify physical examination methods of currency 10. Identify chemical analysis of currency materials 11. Identify digital imaging procedure 12. Visit currency forensics laboratory
<p>Legal Framework in Forensics FRT 222</p>	<ol style="list-style-type: none"> 1. Mock court sessions 2. Fill chain of custody form 3. Handle forensic evidence 4. Dispose forensic evidence legally 5. Comply with the regulatory rules in disposing forensic evidence
<p>Forensic Handwriting</p>	<ol style="list-style-type: none"> 1. Identify styles of handwriting in forensic investigation

FRT 224	<ol style="list-style-type: none"> 2. Identify internal consistency of handwriting 3. Identify altered documents and markings 4. Cite different case studies 5. Demonstrate handwriting analysis with the aid of Microscopes and imaging software 6. Analyze quantitative and qualitative data 7. Write a Report in conformity with the rules guiding Structure of Reports 8. Interpret Reports in conformity with the rules guiding Interpretation of Reports 9. Carryout decision making processes using report findings in Forensic technology
Forensic Accounting FRT 225	<ol style="list-style-type: none"> 1. Prepare a hypothetical financial statements 2. Conduct using case study: <ul style="list-style-type: none"> • Forensic Accounting • Fraud examination 3. Identify Forensic Accounting Investigation methods 4. Design an investigation programme 5. Assemble an investigation team 6. Carryout accounting evidence collection 7. Demonstrate effective interview techniques 8. Preserve accounting evidence and documents 9. Analyse accounting evidence 10. Report accounting investigation

LIST OF EQUIPMENT REQUIRED FOR ND FORENSIC TECHNOLOGY

S/N	Name of Equipment	Minimum Quantity
	Equipment/Devices	
1	Weighing scale	10
2	Tape	60
3	Dummy Skeleton	6
4	Stadiometer	6
5	Vernier Calipers	10
6	Wire loop	30
7	Computer Systems	20
8	Forceps	Assorted
9	Sample racks	Assorted
10	Spectrophotometer	1
11	Micropipettes	5 (various sizes)
12	Television/ Monitor 1	1
13	Digital Camera, 5	5
14	Forensic tool box 1	1
15	Faraday Bag 1	1
16	Autopsy Sleuth Kit 1	1
17	Steam Iron 2	2
18	Fingerprint slab 5	5
19	Fingerprint roller 5	5
20	Cooler box 2	2
21	Thin layer chromatography	2
22	Coolants (ice makers)	5
23	Fridge	1
24	Field equipment for evidence gathering (light source, magnifying lens)	

25	Deep freezer	1 (Medium size)
26	Thermometer	Assorted
27	Needles safety box	Assorted
28	Binocular microscopes	20
29	Watch glass	10
30	Magnifying lens	60
31	Spatula	10 pkts
Consumables		
1	Coverslips	10 pkts
2	Cotton wool	Assorted
3	Microscopic Slide	10 pkts
4	Hand gloves	Assorted
5	PPE	20
6	Log book	60
7	Marker	60
8	Sample bottles	Assorted
9	Syringes	Assorted
10	Culture Media	Assorted
11	Culture plates	2 cartons
12	Images of karyotyping	10
13	Point of care strips	10 pkts
14	Images of DNA Sequencer	Assorted
15	Test tubes	60
16	Images of Liquid chromatography equipment	
17	Sample containers	Assorted
18	Labels	Assorted
19	Sample report	Assorted
20	Urine toxicology strips	5 pkts
21	Sample containers	Assorted

22	Videos Clips	Assorted
23	Body bag 10	10
24	Tags assorted	Assorted
25	Sample bags assorted	Assorted
26	Images and videos of mass spectrometry.	
27	Sample Warrant, assorted	Assorted
28	Cordoning (Boundary) tape 1 roll	1 roll
29	Sample forms assorted	Assorted
30	Fingerprint ink 5pkt	5 pkts
31	Fingerprint Paper assorted	Assorted
32	Images of Automated Fingerprint Identification System (AFIS) machine	
33	Lifting tapes assorted	Assorted
34	Laboratory manual 60	60
35	Soap assorted	
36	Paper towels assorted	Assorted
37	Cardboard assorted	Assorted
	Reagents	
1	Ethanol	25litres
2	Formaldehyde	25litres
3	Sodium chloride	500gm
4	Water Distiller	
5	Distilled/DI Water	
6	Crystal ninhydrin	500gm
7	Acetone	5litres
8	Iodine solution	1litre
	Data/Software	
1	Anti virus/-malware software,	
2	Packet Sniffers software	

3	Penetration Testing Tool software	
4	Log Analysis Tools software	
5	Forensic Tool Kit (FTK) software	
6	Computer Systems Intrusion Detection Systems (IDS) software	
7	Intrusion Prevention Systems (IPS) software	
8	Security Information and Event Management System software	
9	E3 (Cloud) software	
10	RAM Capture Device software	
11	Memory Dump Kits	
12	Network simulating tools (NS-3, OMNET++, GNS3) software	
13	EnCase, software	
14	X-way Forensics software	
15	Network Taps software	
16	Magnet AXIOM software	
17	3D modelling software	
18	Digital mapping software	
19	Software for simulations and visualization	

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