

NATIONAL BOARD FOR TECHNICAL EDUCATION

NATIONAL DIPLOMA

FORENSIC TECHNOLOGY

CURRICULUM AND COURSE SPECIFICATIONS

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

NOVEMBER, 2024

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 cuttingedge 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 by 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.

Prof. Idris M. Bugaje,
EXECUTIVE SECRETARY,
NBTE Kaduna.

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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, (CIFFIN), 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:

		NIO
ng of Courses: burses shall be graded as follows:		MCK
MARKED RANGE	LETTER GRADE GRADE	WEIGHTING
75% and above	A	4.00
70% – 74%	AB	3.50
65% – 69%	В	3.25
60% - 64%	BC	3.00
55% – 59%	C	2.75
50% – 54%	CD	2.50
45% – 49%	D	2.25
40% – 44%	Е	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 theone 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		1 _	_		
	COURSE TITLE	L	P	CU	СН
GNS 101	Use of English I	2	X	2	2
COM 111	Introduction to Computing	2	1 .	3	3
GNS 111	Citizenship Education I	2	·17	2	2
STB 101	General Biology I	1		2	2
STC 101	General Chemistry I	1	1	2	2
FRT 111	Introduction to Forensic Technology	2	J *	2	2
FRT 112	Introduction to Crime Scene Management	KV	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 TITLE	L	P	CU	СН
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	Y	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	O -	-	3	3
TOTAL		13	11	27	29
	,20				

YEAR II SEMESTER I

COURSE CODE	COURSE TITLE	L	P	CU	СН
CODE					\mathcal{O}
GNS 201	Use of English II	2	-	3	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	11/1/	2	2
ENT 216	Introduction to Entrepreneurship II	2	1	3	3
TOTAL		13	3	18	18
•		15			

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	4
TOTAL		8	5	17	17
		3-			
NA		16			

YEAR I SEMESTER I

PROGRAMME: NATIONAL DIPLOMA FORE	ENSIC 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 Forensie T	echnology (FRT)

- Understand the principles of Forensic Technology.
- Understand the techniques used in Forensic
- 3.0 Know legal and ethical considerations involved in forensic investigation

PROGI	RAMME: NATIONAL DIP	LOMA FORENSIC TE	CHNOLOGY			
Course	Title: Introduction to Forens	ic Technology Course (Code: FRT 111		Contact Hours	s: 2
		Credit U	Init: 2		Theoretical:	2
Year:	I Semester:	I Pre-requ	iisite:		Practical:	0
COUR	SE SPECIFICATION: THE	EORETICAL				
GOAL:	This course is designed to pr	ovide students with the b	asic knowledge	of Forensic Technolog	gy (FRT)	
Genera	l Objective 1.0: Understand t	the principles of Forensic	Technology.			
THEO	RETICAL CONTENT			PRACTICAL CON	NTENT	
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-4	1.1 Define Forensic	Explain Forensic	Textbooks Charts			
	1.2 Define forensic science	Explain forensic science	e Computer Journals			
	1.3 Explain the forensic application in a scene	Explain the forensic application in a scene	Projector internet resources			
	1.4 Explain types of forensics	Explain types of forensics	White board Marker			
	1.5 Narrate the historical background of Forensic Technology	Explain the historical background of Forensic Technology				
	1.6 State the basic principles of Forensic Technology					

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

evidence in criminal	forensic sample and evidence in criminal investigations		, (CA)
	Explain the regulatory bodies governing forensic		
EVALUATION: C.A: EXAMINATIO	30%		
	BONRO		
MAILON		20	

PROGRAMME: NATIONAL DIPLOMA FOREN	SIC TECHNOLOGY	
COURSE TITLE: Introduction To Crime Scene	Course Code: FRT 112	Contact Hours: 2
Management	Credit Unit: 2	Theoretical: 1
Year: I Semester: I	Pre-requisite:	Practical: 1
COAL. This course is designed to provide students w	ith the basic knowledge and skills for	or effective Cime Scene Management

GOAL: This course is designed to provide students with the basic knowledge and skills for effective Crime Scene Management

- 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 DIF	PLOMA FORENSIC TE	CHNOLOG	Y		
COURSE: Introduction To Crime Se	cene Management Cours	se Code: FF	T 112	Contact Hours: 2	
	Credi	it Unit: 2	,	Theoretical: 1	
Year: I Semester: I		equisite:		Practical: 1	
COURSE SPECIFICATION: THE	· · · · · · · · · · · · · · · · · · ·			idactical. 1	
GOAL: This course is designed to p			ge and skills for affective	vie Crime Scene Mana	gement
				e Crime Scene Mana	igement
General Objective 1.0: Understand	the concept of Crime Scen	ne Manageme	ent		
THEORETICAL CONTENT			PRACTICAL CONTI	ENT	
Week Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1.1 Define:	Crime Scene Investigation	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	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	Sample and Evidence Collection bag Faraday Bag Tags Labels

	1.4 Explain Crime Scene	Explain Crime Scene		(P-PPE).	Equipment (P-PPE)	•
	Management:	Management		Briefing and	Briefing and	
	 Scene preservation 	 Scene 		Debriefing before and	Debriefing before	
	 Documentation 	preservation		after the crime scene	and after the crime	
	techniques	 Documentation 		investigation	scene investigation	
	(photography,	techniques				
	sketches, etc.)	(photography,		•		
		sketches, etc.)				
		·				
	1.5 Explain Sample and	Explain Sample and		\ \\		
	Evidence collection,	Evidence collection,				
	packaging and storage:	packaging and storage:		11/2		
	• Finger print	• Finger print				
	 Digital 	• Digital				
	Biological etc.	Biological etc.				
	1.6 Explain chain of custody	Explain chain of custody	B.			
	1.7 Explain Briefing and	Explain Briefing and	O .			
	Debriefing	Debriefing				
Gener	al Objective 2.0: Understand	Crime Scene Reconstruct	ion	I	1	
6-10	2.1 Explain Crime Scene	Explain Crime Scene	Textbooks	Identify the methods	Guide students to:	3D
	Reconstruction	Reconstruction	Journals	of reconstruction		modelling
			Whiteboard	Scene Reconstruction	Identify the methods	
	2.2 Explain the methods of	Explain the methods of	Marker		of reconstruction	Digital
	Reconstruction	Reconstruction	Internet		Scene	mapping
			Resources	Identify a	Reconstruction	
	2.3 Explain the importance	Explain the importance	Computer	reconstructed crime		Software for
	and roles of various	and roles of various	Projector	scene with Forensic	Identify a	simulations
				tools.	reconstructed crime	and
	WALL					
	~ ~ ~ ~					
			23			

	professionals in reconstruction 2.4 Explain ethics and professionalism in crime scene reconstruction	professionals in reconstruction Explain ethics and professionalism in crime scene reconstruction		MICAL	tools.	Field equipment for sample and evidence gathering (laser scanning, drones) Proper-PPE
	al Objective 3.0: Know the Le	, 		ent		
11-15	 3.1 Define Legal system (civil, criminal law): Role of law enforcement in the judicial process The structure of courts and legal proceedings 	 (civil, criminal law): Role of law enforcement in the judicial process The structure 	Textbooks Journals Whiteboard Marker Internet Resources Computer Projector			
	 3.2 Explain Legal framework for crime scene investigation: Relevant laws and statutes governing investigations 	Explain Legal framework for crime scene investigation: Relevant laws and statutes governing investigations				

Legal definitions of evidence and	Legal definitions of evidence and		(A)	7
admissibility	admissibility			
3.3 Explain chain of custody	Explain chain of custody			
3.4 Explain importance of	Explain importance of		V '	
chain of custody in	chain of custody in			
investigations	investigations			
	Explain procedure for			
collecting, preserving and				
documenting sample and evidence	and documenting evidences			
3.6 Explain the	Explain the			
Consequences of chain of				
custody violations	of custody violations			
EVALUATION: C.A:	40%			
EXAMINATIO	N: 60%			
	O,			
	\circ			
A()				
X				
		25		
		23		
WALLON				
•				

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

- 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 C	ode: FRT 113		Contact Hou	rs: 2	
		Credit Ur	nit: 2		Theoretical:		
Year:	I Semester: I	Pre-requi			Practical:	$\frac{1}{0}$	
	SE SPECIFICATION: THE						
	: This course is designed to p			forensic psycho	logy		
	al Objective 1.0: Understand			1 ,	53		
	DRETICAL CONTENT		,	PRACTICAL	CONTENT		
Week	Specific Learning	Teacher's	Resources	Specific Learn	ing Tea	cher's	Resources
	Outcome	Activities		Outcome	_	ivities	
	1.1 Define Psychology	Explain Psychology	Textbooks				
1-4	, 5		Charts				
	1.2 Define Psychologist	Explain Psychologist	Journals				
			Computer				
	1.3 Explain Forensic	Explain Forensic	Projector				
	Psychology	Psychology	Internet				
	145 1: 1 1 6		resources				
	1.4 Explain the role of	Explain the role of	Audio-visual				
	Forensic Psychologist	Forensic Psychologist	Whiteboard Marker				
	1.5 Explain the ethics in	Explain the ethics in	IVIAI KEI				
	Forensic Psychology	Forensic Psychology					
Genera	al Objective 2.0: Understand		 Profiling		L		
	2.1 Explain Criminal	Explain Criminal	Textbooks				
	Behaviour	Behaviour	Charts				
			Journals				
	2.2 Explain predisposing	Explain predisposing	Computer				
	factors that leads to	factors that leads to	Projector				
	Criminal behavior	Criminal behaviour	Whiteboard				
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Marker				

	0.0 E 1: : : ::	Б 1: О:	
	2.3 Explain crime prevention	-	Internet
		prevention	resources
			Audio-visual
Gener	al Objective 3.0: Understand	Interview and Interrogation	on Techniques
9-11	3.1 Explain Interrogation	Explain Interrogation	Textbooks
			Charts
	3.2 Explain Interrogation	Explain Interrogation	Journals
	Techniques	Techniques	Computer
			Projector
	3.3 Explain Interrogation	Explain Interrogation	Projector Whiteboard Marker
	process	process	Marker
			Internet
	3.4 Explain ethics of	Explain ethics of	resources
	interrogation	interrogation	Case studies
			Audio-visual
	3.5 Explain the difference	Explain the difference	
	between Interview and	between Interview and	\(\tag{\chi} \)
	Interrogation	Interrogation	
Genera	al Objective 4.0: Understand	contemporary Issues in R	orensic Psychology
13-14	4.1 Explain the current	Explain the current	Textbooks
	trends and challenges in	trends and challenges in	Charts
	forensic psychology	forensic psychology	Journals
			Computer
	4.2 Explain the application	Explain the application	Projector
	of technology in forensic	of technology in	Whiteboard
	psychology	forensic psychology	Marker
			Internet
	4.3 Explain crime evolution		resources
	in modern and future	modern and future	Case studies
	society	society	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				
COAL. This serves is designed to mustide at	danta with Imaveladae of anima in acciety					

GOAL: This course is designed to provide students with knowledge of crime in society.

- 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

PROG	RAMME: NATIONAL DIP	LOMA FORENSIC TEC	HNOLOGY			
Course	Title: Crime and Society	Course Code:	Course Code: FRT 124		Contact Hours 2	
		Credit Unit:	2	Th	neoretical:	2
Year:	I Semester: II	Pre-requisite:		Pr	actical:	0
COUR	SE SPECIFICATION: THE	ORETICAL AND PRACT	ICAL		V	
GOAL	: This course is designed to pr	ovide students with knowle	edge of crime in	n society	•	
	al Objective 1.0: Understand			<u> </u>		
THEC	PRETICAL CONTENT			PRACTICAL CON	ITENT	
Week	Specific Learning Outcome	Teacher's	Resources	Specific Learning	Teacher's	Resources
		Activities		Qutcome	Activities	
1-2	1.1 Define crime and criminology	Explain crime and criminology	Textbooks Markers Board			
	1.2 Explain the impact of crime on society	Explain the impact of crime on society	CCTV Internet resources			
	1.3 Explain types of Crime	Explain types of Crime	Audio-visual Case studies Computer			
	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	Projector			
	al Objective 2.0: Understand	he contribution of environn	nental factors to	o criminal behavior.		
3-4	2.1 Define environment and environmental factors	Explain environment and environmental factors	Textbooks Markers Board			

	 2.2 Explain the factors contributing to crime in society: Social Economic Political Religious Cultural, etc. 2.3 Explain roles of traditional institutions in inhibiting crimes in the society 	Explain the factors contributing to crime in society:	CCTV Internet resources Audio-visual Case studies Computer Projector	
Gene	ral Objective 3.0: Understand	the impact of crime on socie	etv	
5-6	3.1 Explain the impact of crime on Nigerian society	Explain the impact of crime on society	Textbooks Markers Board CCTV	
	3.2 Explain modalities for crime prevention in a society	Explain modalities for crime prevention in a society.	Internet resources Audio-visual Case studies	
	3.3 Explain mental health and crime	Explain mental health and crime		
Gene	ral Objective 4.0: Understand	whistle blower policies in re	relation to crime	
7-8	4.1 Define whistle blower		Textbooks Markers Board	

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

Gener	al Objective 6.0: Understand	crime control strategies			Y
12-13	6.1 Explain crime control	Explain crime control	Textbooks		
			Marker		
			Board		
	6.2 Explain the benefits of	Explain the benefits of	CCTV		
	crime control in society	crime control in society	Internet		
	6.3 Explain strategies for	Explain strategies for	resources Audio-visual		
	crime prevention in	crime prevention in	Case studies		
	Nigeria	Nigeria	Computer		
	Trigoria	Tigeria	Projector		
	6.5 Explain community	Explain community	Charts		
	engagement in crime	engagement in crime			
	control strategy	control strategy			
	6.6 Explain the effectiveness				
	of the strategies	of the strategies mentioned			
~	mentioned in 6.3	in 6.3			
	al Objective 7.0: Understand				
14-15	7.1Define Perception	Explain Perception	Textbooks		
	7.2 Evaloin Percention	Evaloin Doroantion	Marker Board		
	7.2 Explain Perception management	Explain Perception management	CCTV		
	management	management	Internet		
	7.3 Explain rehabilitation	Explain rehabilitation	resources		
	7.5 Explain foliabilitation		Audio-visual		
	7.4 Explain how repentant	Explain how repentant	Case studies		
	criminal can be	criminal can be	Computer		
	reintegrated back in the	reintegrated back in the	Projector		
	society	society	Charts		
	'D'		33		
	WATE				

7.5 Explain stigmatization	Explain stigmatization and		
	ts effects on repentant		
repentant criminals	criminals		
	Explain the impact of		
NGOs in providing relief			
material to the victims of			
crimes	crimes.		
7.7 Explain the humanitarian	Evaloia the humaniterian		
	efforts of government	1,40,	
	agencies e.g.: NDLEA,		
	NAPTIP		
	60%		
EXAMINATION: 7			
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NO.			
WILOU		34	
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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 Scent Management					

- 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.

	RAMME: NATIONAL DIPLO					
Course Title:: Crime Scene Management (CSM)		nt Course Code: FF	Course Code: FRT 121		tact Hours: 3	
		Credit Unit: 3	Credit Unit: 3 The		oretical: 1	
Year:	I Semester: II			Reactical: 2		
	SE SPECIFICATION: THEOR		CAL	, jack		
	This course is designed to provi			ills of Crime Scene Ma	nagement	
	l Objective 1.0: Understand best				8	
	ETICAL CONTENT	t practices in crime seen	<u>e ivianagemen</u>		CAL CONTENT	
Week	Specific Learning	Teacher's	Resources	Specific Learning	Teacher's	Resources
	Outcome	Activities		Outcome	Activities	
1-3	1.1 Explain how to manage a crime scene	Explain how to manage crime scene	a Slides Lecture	Demonstrate how to Set up a crime scene: • Identification	Guide student to: Demonstrate how	Video clips Evidence bag
	1.2 Explain how to secure crime scene	Explain how to secure crime scene	Marker Whiteboard Internet	 Collection 	to Set up a crime scene Identification	Cordoning Tapes,
	1.3 Explain search of crime scene	Explain search of crime scene	resources Computer Projector	 Transportation of relevant samples and evidence to the 	• Collection • Packaging	Proper-PPE
	1.4 Explain how to carry out: • Identification	Explain how to carry ou	t:	crime being	 Transportation 	Camera
	 Identification Collection Packaging	 Identification Collection 		investigated	of relevant evidence to the	Magnifying lens
	PackagingDocumentation	Packaging Documentation			crime being investigated	
	Transportation.	Transportation			investigated	Source of light
	of relevant samples and evidence to the laboratory	of relevant samples and evidence to the laboratory				Relevant samples and evidence

-						
	1.5 List classes of samples and	*				
	evidence	samples and evidence				
		T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			. 10'	
	_	Explain the guidelines				
	identifying classes of	for identifying classes of				
	samples and evidence	samples and evidence		V		
	1.7 Explain best practices in	Explain best practices in				
	the preservation of the	the preservation of the				
	classes of samples and	classes of samples and				
	evidence	evidence				
General	Objective 2.0: Understand the	relevance of documentation	n during crin	ne scene investigation		
4-5	2.1 Define documentation	Explain documentation	Textbooks		Guide students to:	Camera,
			Markers	Demonstrate		
	2.2 State the importance of	Explain the importance	Projector	convention labelling	Demonstrate	Evidence bag,
	documentation at each	of documentation at each	Whiteboard	for samples and	convention	
	stage of the investigation	stage of the investigation		evidence	labelling for	Proper-PPE
			resources		samples and	
	2.3 Explain how to adopt	Explain how to adopt			evidence	Labelling tape
	convention labelling for	convention labelling for		Apply photography		
	samples and evidence	samples and evidence		and videography as	Apply photography	Markers
				tools of	and videography as	
	2.4 Explain the application of	Explain the application		documentation	tools of	Seals
	photography and	of photography and			documentation	
	videography as tools of	videography as tools of				Cello-tape
		documentation				1
General	Objective 3.0: Know how to m		nder the Crim	inal Justice System	,	
6-7	3.1 Explain the concept of	Explain the concept of	Textbooks	Identify methods of	Guide students to:	Camera
	maintaining chain of	maintaining chain of	Markers	collecting samples		
	custody of sample and	custody of evidence from	Internet	and evidence at crime	Identify methods	
	evidence from the crime	the crime scene to		scene	of collecting	Evidence bag
	scene to admission in court	admission in court	Projector		samples and	
					_	

			Computer		evidence at crime	Proper-PPE
	3.2 Explain how to triage	Explain how to triage			scene	L
	classes of samples and	classes of samples and			. 10"	Labelling tape
	evidence collected at crime					
	scene	crime scene				Markers
	3.3 State the Nigeria Evidence	Explain the Nigeria				Seals
	Acts of the Criminal	Evidence Acts of the				
	Justice System on	Criminal Justice System				Cello-tape
	admissibility of samples	on admissibility of		2()		
	and evidence	samples and evidence		MICAL		
	3.4 Explain how to maintain	Explain how to maintain				
	proper chain of custody	proper chain of custody.	. (
eneral	Objective 4.0: Understand the	functions of an Exhibit ke	eper and the r	elevance		
8-10	4.1 Define Exhibit and Exhibit	Define Exhibit and	Slides	Visit a police	Guide students to:	Camera,
	keeper	Exhibit keeper	Lecture	formation to identify:		
	_		notes	 Exhibit room 	Visit a police	Evidence bag,
	4.2 Explain the roles of an	Explain the roles of an	Markers	 Handling and 	formation to	
	Exhibit keeper	Exhibit keeper	Whiteboard		identify:	Proper-PPE
	_		Projector		 Exhibit 	
	4.3 Differentiate between	Explain the difference	Computer	Write report	room	Labelling tape
	exhibit and evidence	between exhibit and	Camera	1	 Handling 	
		evidence			and storage	Markers
	4.4 Explain the process of					
		Explain the process of			Write report	Seals
	exhibit and evidence	storing and securing			1	
		evidence				Cello-tape
eneral	Objective 5.0: Understand Fore			<u>l</u>		
		Explain Report writing	Slides		Guide students to:	Camera
. 12	our pointe report will appropriate		Lecture		Surde students to.	Cumera
	VO.		notes	Identification of case	Identification of	Evidence bag
	WAIL					
			38			

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

EVALUATION: C.A:
EXAMINATION: 60%

PROGRAMME: NATIONAL DIPLOMA FOR	. 10	
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.

- 1.0 Understand the Fundamental Principles of Forensic Anthropology in Death in vestigation.
- 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.

PROGE	RAMME:	NATIONAL DIP	LOMA FOR	ENSIC TE	CHNOLOGY	Y)
Course	Title: Fore	ensic Anthropology	1	Course Cod	e: FRT 122		Contact Hours:	3
				Credit Unit	: 3		Theoretical:	2
Year	r: I	Semester: II	I	Pre-requisit	e:	,	Practical:	1
COURS	SE SPECI	FICATION: THE	ORETICAL				\sim	
	This cour	rse is designed to ea	quip students	with knowl	edge and skill	s for identifications and	analysis of human re	emains in
		n 1 0: Understand	the Fundame	ental Princip	les of Forensi	c Anthropology in Deatl	n investigation	
		CONTENT	the r undame		des of 1 orensi	PRACTICAL CONT		
			<u>, </u>		1			_
Week	Specific 1	Learning Outcome	Teacher's A	Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
	-	ne Forensic	Explain For		Textbooks			
1-4	Anth	ropology	Anthropolog	gy	Computer			
	105 1			1	Projector			
		in the history and opment of Forensic	Explain the		Slides DVD			
		opinent of Forensic opology	Forensic An		. –			
	Alluli	opology	Torchsic An	unopology	player			
	1.3 Expla	in the roles of	Explain the	roles of	Whiteboard			
		sic Anthropology	Forensic An		Marker			
	in criı	1 00	in criminal	1 . 63	Internet			
	invest	igations	investigation	ns	resources			
Canana	 Objective	o 2 O. Undonstand t	bo mathada u	and in the e	nalvaia of hym	an mamaina in madiaa 1	and contant	
		human remains				nan remains in medico-leading the race,	Guide students to:	Human
3-10	Z.TEXPIAII	i ilullian temanis	Explain nun	ian remains	Computer	gender, age using	Ourde students to.	Skeleton
	2.2 State t	he principles used	Explain the	principles	Projector	human skeleton	Identify the race,	Skeleton
		analysis of homan	used in the a		Slides		gender, age using	Hand lens
	remain		human rema	•	DVD		human skeleton	
					Multimedia	Simulation to		Microscope
					player	identify, classify and	Simulation to	

					Proper-PPE Spade Brushes Kidney dish Bed-pan Body bags Specimen containers
General Objective 3.0: Understand the remains.	ne techniques for estima	tion of biograph	ny and anthropometric	measurements based	on skeletal
3.1 Explain the techniques used in identifying skeletal landmarks and ancestry skeletal remains 3.2 Explain the techniques used in in dating and analyzing skeletal	arcestry skeletal remains Explain the techniques used in analyzing	Textbooks Computer Projector Slides DVD Multimedia player White board Marker	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

skeletal remains	ancestry skeletal			Carry out body	Calipers
	remains	Internet	Carry out body mass	girth measurement	
3.3 State the importance of		resources	index		
maintaining accurate	Explain the importance			Carry out body	
records in analysis	of maintaining accurate		Carry out head and	mass index	
process	records in analysis		eye measurement		
	process			Carry out head and	
3.4 State limitations of				eye measurement	
anthropometric	Explain limitations of				
techniques	anthropometric				
	techniques				
3.5 State limitations of		•			
biography	Explain limitations of				
VALUATION: C.A:	biography 40%				
	~ KO	}			
	30ARD FO				
	BONROKO				
	30/120/10				
	301/20 (O	43			

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				
COAL: This course is designed to equip students a	with knowledge and skills on forensic	investigations of digital devices				

GOAL: This course is designed to equip students with knowledge and skills on forensic investigations of digital devices.

- 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

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PROGI	RAMME: NATIONAL DIP	I OMA (ND) FO	RENSIC TECHN	OLOGY		, 10,	
	Title: Introduction To Digita	` ′	ourse Code: FRT		Conta	ct Hours: 3	
Course	Tivic introduction to Digital						
Year:	I Semester: II		redit Unit: 3		Prac	retical: 1 tical: 2	
	SE SPECIFICATION: THE		e-requisite:		Prac	ucar: 2	_
	This course is designed to ea			lls on forensic in	vection	tions of digital device	
	l Objective 1.0: Understand t			iis on idiciisic iii	vestiga	tions of digital device	
	RETICAL CONTENT	ne Digital I orensi		PRACTICAL	CON	TENT	
THEO	KETICAL CONTENT	T				1	
Week	Specific Learning	Teacher's	Resources		ning	Teacher's	Resources
	Outcome	Activities		Outcome		Activities	
1-2	1.1 Define Digital Forensic	Explain Digital Fo	orensic Charts				
			Textbooks				
		Explain the types	Journals				
	Forensics	of digital Forensi					
	1.3 Explain the significance	Evplain the cianif	Projector Whiteboard	1			
		of digital Forensic					
	or digital 1 oronsies	of digital definit	Internet				
	1.4 Explain Forensic	Explain Forensic	resources				
	investigation on digital	investigation on d	ligital				
	devices	devices					
	Objective 2.0: Understand					T	
3-5	2.1 Define Cybercrime	Explain Cybercrii		es Identify the ty	pes of	Guide Students to:	Computer
	2.21 in the all	F1-: (1 1	Pictures	Cybercrime		T.1	T4:
		Explain the classe	es of Charts Textbooks	_ TT1-:		Identify the types of	
	Cybercrime	Cybercrime	Journals	Hacking Dhiship a		Cybercrime	Detection Systems
			pournais	 Phishing 			pysicins

	 2.3 List Password Cracking tools for legal use by security professionals 2.4 Define Digital Evidence 2.5 Explain the types of Digital Evidence 2.6 Explain Digital Evidence extraction tools 	Explain Password Cracking tools for legal use by security professionals Explain Digital Evidence Explain the types of Digital Evidence Explain Digital Evidence Explain Digital tools	Computer Internet resources Projector DVD/Multi media Player Whiteboard Marker		Digital Identity theft DDoS etc	 Hacking Phishing Digital identity theft DDoS etc 	Intrusion Prevention Systems (IPS) Security Information and Event Management System Antivirus/ Anti- malware software Packet Sniffers Penetration Testing Tool Log Analysis Tool
Genera	l Objective 3.0: Understand	Analytical and Problem-S	olving Skills i	in D	Digital Forensics	1	
6-8	3.1 Explain how to interpret digital evidence from					Guide students to:	Computer
	various sources	various sources	Charts Textbooks		entify Digital dence from	Identify Digital evidence from	Autopsy
•	WATE		46				

3.2 Explain the types of	Explain the types of	Journals	various sources:	various sources:	Write
Digital extraction:	Digital extraction:	Computer	 Hard drives 	 Hard drives 	blocker
• File system	 File system 		 Flash drives 	• Flash drives	
 Physical extraction 	 Physical 	Software	 Networks 	Networks	Forensic
 Logical extraction 	extraction		Mobile	Mobile devices	Duplicator
	 Logical 	Internet	devices	Data Banks	
3.3 Explain how to maintain	extraction	resources	 Data banks 		Disk Imager
the integrity of		D			****
evidence.	Explain how to maintain	Projector			Wireshark
	the integrity of	DVD/Multi	ار ک اک،		Natryonla
0.45	evidence.	media Player			Network Miner
3.4 Explain the use of		media Flayer			Millel
forensic software	E1-i 4h	Whiteboard/			Xplico
tools for solving	Explain the use of forensic software	Marker			Aprico
problems	tools for solving				NetWitness
	problems				Investigator
	problems				
					Network
					Taps
					Packet
	QV				Sniffers
	UK.				Faraday Bags
					Extraction
	•				Kits
					AWS
					Aws CloudTrail
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					MCAIL	E3 (Cloud) RAM Capture Device
						Memory
						Dump Kits
Genera	al Objective 4.0: Understand	Digital Forensic Investiga	tions			
9-11	4.1 Explain types of Digital Forensic Investigations		Charts Textbooks Journals	Simulate a orime scene and carryout investigations using	Guide students to: Simulate crime	Computer Systems
	4.2 Explain the tools used for digital forensic investigations	Explain the tools used for digital forensic investigations	Computer Software Internet		scene and carryout investigations using digital tools	Network simulating tools (NS-3,
	4.3 Explain the importance of Digital forensic investigations.	Explain the importance of Digital forensics investigations	resources Projector DVD/Multi media Player oard			OMNET++, GNS3) EnCase
		, pD k	ourd			Forensic Tool Kit (FTK)
		Ok.				X-way Forensics
	Ja.	Y				Autopsy
	Mr					Sleuth Kit Network
						TACIMOLK

					CAL	Taps
						Packet Sniffers
						Magnet AXIOM
				110h		Oxygen Forensic
Genera	l Objective 5.0: Understand l	Digital Evidence Manage	ment	N		
12-14	5.1 Explain the principles of					
		Digital Evidence	Textbooks			
	Management	Management	Journals Computer			
	5.2 Ex handling plain	Explain Digital	Software			
	Digital Evidence	Evidence handling	Internet			
	procedures	procedures	resources Projector			
	5.3 Explain digital evidence		DVD/Multi			
	acquisition and	acquisition and	media Player			
	preservation	preservation	Whiteboard			
			Marker			
	5.4 Explain the chain of custody for digital evidence	Explain the chain of custody for digital evidence				
	5.5 Explain legal	Explain legal				
		requirements, standards				
	and regulations	and regulations				
	governing digital	governing digital				

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

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.									

GENERAL OBJECTIVE: At the end of this course, the students should be able to:

- 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 D	IPLOMA FORENSIC	FECHNOLOGY	7		
Course Title: Introduction to Fing	gerprints Course Coo	de: FRT 124	Ç	Contact Hours: 2	,
	Credit Uni	t: 2		Theoretical: 1	
Year: I Semester: II	Pre-requisi	ite:		Practical: 1	
COURSE SPECIFICATION: T					
GOAL: This course is designed to			on application of fine	gerprints in forens	sic analysis.
General Objective 1.0: Understa				5 <u>F</u>	<u>,</u>
THEORETICAL CONTENT	1 61		PRACTICAL CON	TENT	
Week Specific Learning	Teacher's	Resources	Specific Learning	Teacher's	Resources
Outcome	Activities		Outcome	Activities	
1.1 Define fingerprints	Explain fingerprints	Textbooks Projector			
1.2 Explain types of	Explain types of	Computer			
fingerprints	fingerprints	Internet resources			
1.3 Explain the	Explain the	Lecture notes			
characteristics of	characteristics of	Finger marks			
Fingerprint	Fingerprint	Marker Whiteboard			
1.4 Explain the patterns of	Explain the patterns of				
Fingerprint	Fingerprint				
1.5 Explain Ten-print	Explain Ten print				
classification	Classification				
1.6 Explain the importance		e			
of fingerprints in foren					
analysis	forensic analysis				

Gene	ral Objective 2.0: Know finger	prints identification				
3-4	2.1 Explain fingerprint	Explain fingerprint	Text books	Carryout fingerprint	Guide students to:	Fingerprint
	identification	identification	Projector	identification		slab
			Computer		Carryout fingerprint	
	2.2 Explain the use of	Explain the use of	Internet		identification	Fingerprint
	fingerprints in crime	fingerprints in crime	resources	matching	Y	ink
	identification	identification	Lecture notes		Carryout fingerprint	
			Finger marks		matching	Roller
	2.3 Explain certainty and	Explain certainty and	Marker	Identify context and		
	uncertainty in	uncertainty in	Whiteboard	potential errors in	T1 4'C 4 4 1	
	identifications by	identifications by	Journals	taking and analysing		Analyse
	fingerprint matching	fingerprint matching		tingerprint	potential errors in	Compare
	2.4 E1-:	E1-intt 1		[.]	fingerprint analysis	Evaluate-
	2.4 Explain context and potential errors in taking	Explain context and potential errors in		Identify new technologies of		Verify (ACE-V)
	and analysing fingerprint	μ		fingerprint matching	Identify new	(ACE-V)
	and analysing imgerprint	fingerprint	1	imgerprint matering	technologies of	Magnifying
		inigorprint			fingerprint matching	
	2.5 Explain uses of new	Explain uses of new			imgerprint matering	Lens
	technologies in	technologies in) `			Pencil
	fingerprint matching	fingerprint matching				
	gerprine innering	garpaini				Celotape
		OV				· · · · · · · · · · · · · · · · · · ·
						Fingerprint
						power
		() '				
						Fingerprint
		Y				card
						Finger
						marks

	ral Objective 3.0: Understand			I		T
-7	3.1 Explain electromagnetic	Explain electro-	Textbooks	Demonstrate	Guide students to:	Lifting
	spectrum	magnetic spectrum	Projector	interactions of light	Demonstrate	tapes
			Computer	and matter in	interactions of light	Eamanaia
	3.2 Explain electromagnetic	Explain electro-	Internet	fingerprint analysis	and matter in	Forensic
	spectrum in fingerprint	magnetic spectrum in	resources		fingerprint analysis	tool box
	analysis	fingerprint analysis	Finger marks	Carryout chemical		
			Marker	tests in fingerprint	Carryout chemical	
	3.3 Explain Interactions of	Explain Interactions of	Whiteboard	analysis	tests in fingerprint	
	light and matter in	light and matter in	Journals	\(\mathcal{O}\)	analysis	
	fingerprint analysis	fingerprint analysis		Mr.		
	3.4 Explain the use of	Explain the use of				
	Chemicals in fingerprint	Chemical tests in				
	analysis	fingerprint analysis				
ene	ral Objective 4.0: Understand	Inked Fingerprints				
9	4.1 Explain inked fingerprint	Explain inked	Text books		Guide students to:	Laborator
		fingerprint	Projector			manual
			Computer	Take fingerprint	Take fingerprint	
	4.2 Explain the procedure of		Internet			Ten-print
	taking fingerprints	of taking fingerprints	resources	Take inked	Take inked	card
			Lecture notes	fingerprint	fingerprint	
	4.3 Explain the procedure of		Finger marks			Alcohol
	taking inked fingerprints	of taking inked	Marker			
		fingerprints	Whiteboard	Take fingerprints	Take fingerprints	Soap
			Journals	using ten-print	using ten-print	
	4.4 Explain ten-print card in			cards and ink pad	cards and ink pad	Paper
	fingerprint analysis	in fingerprint analysis				towels
				Use cleaning agents	Use cleaning agents	
	4.5 Explain the challenges in			after taking	after taking	Water
	taking fingerprints.	in taking fingerprints.		fingerprint:	fingerprint	
						Proper-PP
	WATT					
	<i>'D'</i>		54			

Ceneral Objective 5.0: Understand Lifting Prints Using Dusting Techniques							
10-11 5.1 Explain dusting 5.2 Explain dusting techniques in taking fingerprints 5.3 Explain the procedure for lifting prints using dusting techniques 5.4 Explain the types of latent fingerprint powders. 5.5 Explain the types of latent fingerprint powders. 5.6 Explain the types of latent fingerprint powders. 5.7 Explain dusting Explain dusting Internet resources Lecture rotes Forensic Demonstrate lifting prints using dusting techniques Identify types of latent fingerprint powders					Water and Soap	• Water and Soap	slab Roller Fingerprint
10-11 5.1 Explain dusting 5.2 Explain dusting techniques in taking fingerprints 5.3 Explain the procedure for lifting prints using dusting techniques 5.4 Explain the types of latent fingerprint powders. 5.5 Explain the types of latent fingerprint powders. 5.6 Explain the types of latent fingerprint powders. 5.7 Explain dusting Explain dusting Internet resources Lecture rotes Forensic Demonstrate lifting prints using dusting techniques Identify types of latent fingerprint powders	Gener	al Objective 5.0: Understand 1	Lifting Prints Using Dus	ting Technique	s		
• lift the latent prints with the tape • lift the latent prints with the tape		 5.1 Explain dusting 5.2 Explain dusting techniques in taking fingerprints 5.3 Explain the procedure for lifting prints using dusting techniques 5.4 Explain the types of latent fingerprint 	Explain dusting Explain dusting techniques in taking fingerprints Explain the procedure for lifting prints using dusting techniques Explain the types of latent fingerprint	Text books Projector Computer Internet resources Lecture notes Finger marks Marker Whiteboard	Demonstrate lifting prints using dusting techniques Identify types of latent fingerprint powders Break into groups: I lay fingerprints on surfaces. Apply the specialized powder on the surface Iift the latent prints with the	Demonstrate lifting prints using dusting techniques Identify types of latent fingerprint powders Break into groups: • lay fingerprints on surfaces. • Apply the specialized powder on the surface • lift the latent prints with	

-			•			
				• Transfer to	Transfer to	
				the fingerprint		
				paper.	fingerprint	
				Analyze the	paper.	
				results	 Analyze the 	
					results	
				Conclude Which	Conclude which	
				powders work best	powders work best	
				on different surfaces	on different surfaces	
Genera	al Objective 6.0: Understand 1	Prints Using Chemical M	lethods	M.		
		Explain chemical		Úse ninhydrin	Guide students to:	Paper
	methods in fingerprint	methods in fingerprint		solution to develop		
	analysis	analysis	Computer	fingerprint from a	Use ninhydrin	Cloth
				porous surface	solution to develop	
	6.2 Explain porous surface in		resources		fingerprint from a	Cardboard
	fingerprint examination	in fingerprint		Immerse porous	porous surface	
		examination	\mathcal{C}	surface into		latex gloves
			Marker	ninhydrin solution	Immerse porous	
		Explain how to develop		and dry without		Ninhydrin
			Journals	touching surface	ninhydrin solution	solution
	surface using ninhydrin	surface using minhydrin			and dry without	
	45 111			Apply iron solution	touching surface	Iron
	6.4 Explain how to immerse	Explain how to		to develop the		solution
		immerse porous		invisible latent prints	Apply iron solution	
		surface into ninhydrin			to develop the	
	dry without touching	solution and dry			invisible latent	
	surface	without touching surface			prints	
		Surrace				
	()					

	6.5 Explain the use of	Explain the use of				
	Iron solution to develop	Iron solution to				
	the invisible latent prints	develop the invisible				
		latent prints				
Gener	al Objective 7.0: Understand	Fingerprint Analysis Tec	hniques			
14-15	7.1 Explain analysis of	Explain analysis of	Text books	Preserve fingerprints	Guide students to:	Fingerprint
	fingerprints	fingerprints	Projector			lifting tape
			Computer	Conduct analysis	Preserve fingerprints	
	7.2 Explain preservation of	Explain preservation of	Internet	using:		Samples
	fingerprints	fingerprints	resources	Patterns of	Conduct analysis	ten-print
			Lecture notes	fingerprint	using:	cards
	7.3 Explain patterns of	Explain patterns of	Finger marks		 Patterns of 	
	fingerprint	fingerprint	Marker	Ridge	fingerprint	Latent print
			Whiteboard	Characteristics		1
	7.4 Explain Ridge	Explain Ridge	Journals		• Ridge	Magnifying
	Characteristics in	Characteristics in			Characteristics	lens
	fingerprint analysis	fingerprint analysis		Compare fingerprints		
	ingerprine unury sis				Compare	Forceps
	7.6 Explain Comparison of	Explain Comparison of			fingerprints	отсерь
	Fingerprints in analysis	Fingerprints in				Pencil
	i ingerprints in unarysis	analysis				Light source
		unary 515				Light source
						Computer
						Computer
1			1			1

EVALUATION: C.A:
EXAMINATION 60%

PROGRAMME: NATIONAL DIPLOM	A FORENSIC TECHNOLOGY	
Course Title: Forensic Biology	Course Code: FRT 125	Contact Hours:
	Credit Unit: 3	Theoretical:
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

- 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

	RAMME: NATIONAL DII				unto at III	•
course	Title: Forensic Biology	Course Code	:: FK1 125	Co	ontact Hours 3	
		Credit Unit:	3	T	heoretical: 1	
Year:	I Semester: II	Pre-requisite	:	P	ractical: 2	
COURS	SE SPECIFICATION: TH	EORETICAL AND PRA	CTICAL		N	
GOAL:	This course is designed to e	equip students with the kn	owledge of bi	ology in the investiga	tion of forensic ca	ises
Genera	Objective 1.0: Understand	forensic biology			*	
	*	Torensie blology		DD A CIPIC AL CON	TO DATO	
THEO	RETICAL CONTENT			PRACTICAL CON	HENI	
Week	Specific Learning	Teacher's	Resources	Specific Learning	Teacher's	Resources
	Outcome	Activities		Outcome	Activities	
	1.1 Define Forensic	Explain Forensic	Text books	<u> </u>		
1-2	Biology	Biology	Projector			
			Computer			
		Explain the history and				
	1.2 Explain the history	development of	Whiteboard			
	and development of	Forensic Biology	Internet			
	Forensic Biology		resources			
		Explain the scope of				
	1.3 Explain the scope of	Forensic Biology				
	Forensic Biology					
	1.4 Evaloia the	Explain the importance				
	1.4 Explain the importance of	of Forensic Biology				
	Forensic Biology					
Canara	Objective 2.0: Understand	Alacses of Forencic Riole) ov			
3-4	2.1 Explain the classes of	•	Text books			
, ¬	Forensic Biology	Forensic Biology	Projector			
	1 of clisic Diology	1 of chisic blology	Computer			
			Marker			

	1			1		
	2.2 Explain the scope of	Explain the scope of	Whiteboard			
	each class listed in 2.1	each class listed in 2.1	Internet			
		Explain the functions	resources			
	2.3 Explain the functions of	of 2.1				
	2.1					
					V	
Gener	al Objective 3.0: Understand	types of biological samp	les and associa	ated materials		
5-9	3.1 Define biological	Explain biological	Textbooks		Guide students to:	Log book
	samples	samples	Projector	Identify types of	Identify types of	
	r	r r	Computer	samples	samples	Sample
	3.2 List types of biological	Explain types of	Lecture			containers/
	samples	biological samples	notes	Identify types of	Identify types of	Bottles
	sampres	ororogrear sampres	Slides	sample	sample	
	3.3 Explain how biological	Explain how biological	Marker	containers/bottles	containers/bottles	Sample
	samples are collected	samples are collected	Whiteboard			carriers
	samples are concered	samples are confected	Internet	Identify containers	Identify containers	Carriers
	3.4 Describe how to	Explain how to	resources	specifications	specifications	Hand gloves
	package and store	package and store	Sources		Specifications .	G . C .
	biological samples	biological samples		Carryout collection	Carryout collection	Safety
	biological samples	olological samples		of samples	of samples	gadgets
	3.5 Explain biological	Explain biological			or sumpres	Face shield
	sample labelling	sample labelling		Carryout	Carryout	race silicit
	sample labelling	sample labouring		precautionary	precautionary	Face masks
	3.6 Explain biological	Explain biological		F -	f c 1	
	sample and other	complaint of old other		and specific handling	_	Prepared
	materials	sample and other		1	handling of	biological
	materials	materials		of biological samples	biological samples	samples
	2.7 Describe methods f	Evaloia mothodo of			biological samples	
	3.7 Describe methods of	Explain methods of				Syringes
	biological sample	biological sample				Needles
	disposal	disposal				recuies
						Safety box
						J

	3.8 Explain precautions for	Explain precautions for			6	Cotton wool
	general and specific	general and specific				Ethanol
	handling of biological samples	handling of biological samples			10	Glass Slides
	samples	sumples			y	Coverslips
						Magnifying
						lens
				(10)		Microscopes
				10,		Proper- PPE
			. (Formaldehyde
			16			Watch glass
			, , , ,			Spatula
			/			Tweezers
						Scissors
		0,				Forceps
		100				Water
		Uk,				Distiller
General	Objective 4.0: Understand	basic concepts in analysi	s of biologica	samples		1
	4.1 Explain the principles	Explain the principles	Text books	Identify equipment	Guide student to:	Log book
	and methods of sample		Projector	used for analysis of		
	analysis:	analysis:	Computer	biological samples	Identify equipment	Sample
	• DNA	• DNA	Lecture		used for analysis of	containers/
	 Serology 	 Serology 	notes	Carry out Point Of	biological samples	bottles
			Slides	Care Testing (POCT)		Sample

		h.c. 1			1 .
• Culture	• Culture	Marker		Carry out Point Of	carriers
	Explain the	Whiteboard		Care Testing	Hand gloves
4.2 List the advantages and		Internet	Carry out simple	(POCT)	Tana gioves
disadvantages of each	disadvantages of each	resources	spectrophotometry		Safety
method in 4.1 above	method in 4.1 above		test	Carry out simple	gadgets
				spectrophotometry	
4.3 Explain the cost	Explain the cost			test	Culture
implication of sample	implication of sample				Media
analysis	analysis				Face shield
			·ベン)・		r acc sinera
					Face masks
4.4 Describe how to triage	Explain how to triage				Imagagaf
forensic methodology:	forensic methodology:				Images of
• Distinguish between	 Distinguish 				karyotyping
closely related	between closely	XX			Images of
agents	related agents	, ,			Spectrophoto
1.55					meter
4.6 Describe categories of					
-	e professionals in sample	Ť			Proper-PPE
analysis handling	analysis handling				Missesses
					Microscope
					Point of care
					strips
	()				Images of
					DNA
					Sequencer
EVALUATION CA	•				

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

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY					
Course Title: Forensic Chemistry	Course Code: FRT 126	Contact Hours:			
	Credit Unit: 3	Theoretical:			
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.

- 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 D	DIPLOMA FORENSI	C TECHNO	LOGY		*
Course Title: Forensic Chemistry	Course C	Code: FRT 12	26	Contact Hours: 3	
	Credit U	Unit: 3		Theoretical:	1
Year: I Semester: II	Pre-req	uisite:			2
COURSE SPECIFICATION: T					
GOAL: This course is designed to	o acquaint the students	with knowled	lge and skills of chemi	ical principles and anal	ytical techniques
and there applications to forensic	technology.				
General Objective 1.0: Understa	and fundamental chemic	cal principles	in forensic technology	7.	
THEORETICAL CONTENT			PRACTICAL CONT	TENT	
Week Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1.4 Explain the following fields of study in forensic chemistry:	forensic chemistry:	Projector Computer Lecture notes Slides Marker Whiteboard Internet resources	 Conduct: Chromatography Spectrometry Non-destructive techniques etc. Apply safety measures for handling chemicals in a laboratory.	Guide students to: Conduct: Chromatography Spectrometry Non-destructive techniques etc. Apply safety measures for handling chemicals in a laboratory	Lab coats Test tubes Micropipettes Spectrophotomete Chromatography Cuvettes, Proper-PPE

• Radiological

	• etc.	etc.			100	
	and function of organic compounds in	Explain the structure and function of organic compounds in forensic technology			EDIJON.	
	significance of inorganic compounds in forensic investigations: • Metals • Materials found at crime scenes	Explain the significance of inorganic compounds in forensic investigations: • Metals • Materials found at crime scenes		CHMICA		
Genera evidence	al Objective 2.0: Know bes	t practices for the iden	tification, col	llection, preservation,	and handling of chemic	cal samples and
5-9	2.1 Explain procedures	1 1	Text books Projector	Identify and analyse	Guide students to: Identify and analyse	Pictures
	of chemical samples and	chemical samples and		samples, evidence	samples, evidence	Sample containers
	evidence		Whiteboard Internet	and control	and control	Proper-PPE
	2.2 Explain procedures for collection,		resources		Collect, preserve and	Coolants
	packaging, labelling and	packaging, labelling and transportation of		Collect, preserve and	analyse chemical samples and evidence	Refrigerator
	transportation of	chemical samples and evidence.		analyse chemical samples and evidence		Thermometer
	and evidence	evidence.				Labels

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

	toxicology, biology,	chemistry in		
	and crime scene	toxicology, biology,		•
	investigation	and crime scene		
		investigation		
		Explain the		
	3.4 Explain the challenge			
	associated with	with chemistry as it		
	chemistry as it relates			
	with other disciplines			
LUA		40%		
	EXAMINATION: 6	50%		
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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.

- 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

DDAGI	PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY					
				C44 II - 2		
	Title : Forensic Anthropology	Course Code: FRT 211		Contact Hours: 2 Theoretical: 2		
II		Credit Unit: 2				
Year:	II Semester: I	Pre-requisite: FRT 122				
	SE SPECIFICATION: THEO					
	This course is designed to equ					
	l Objective 1.0: Understand sc	ientific methods and tech	niques for the			
THEOR	RETICAL CONTENT			PRACTICAL CONT		
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources
	Outcome			Outcome	Activities	
1-5	1.1 Explain anatomy of	Explain anatomy of	Textbooks		Guide students to:	Dummy
	human skeleton	human skeleton	Journals			TT
			Computers	Identify bones of	Identify bones of	Human
	1.2 Explain forensic	Explain forensic	Charts	human skeleton	human skeleton	Skeleton
	osteology	osteology	Marker			Proper-PPE
			Whiteboard	Identify the	Identify the	Troper TTE
	1.3 Explain techniques used	Explain techniques	Internet	differences in	differences in	Ruler
	in the analysis of	used in the analysis of	resources	human skeleton	human skeleton	CI:
	skeletal remains for	skeletal remains for	Projector	based on gender,	based on gender,	Clipper
	forensic purposes	forensic purposes		age and laterality	age and laterality	Measuring
						tape
	1.4 Explain techniques used	Explain techniques				tape
	in interpreting analysed	used in interpreting				X-ray View
	skeleton remains for	analysed skeleton				Board
	forensic purposes	remains for forensic				
		purposes				Sample
		V				case study
Genera	l Objective 2.0: Understand ph	ysical anthropology in fo	rensic technol	ogy.		
6-10	2.1 Define Physical	Explain Physical	Textbooks	Identify bones of	Guide students to:	Dummy
	Anthropology	Anthropology	Journals	human skeleton		TT
			Computer	from other bones	Identify bones of	Human
			Charts		human skeleton	Skeleton

	 2.2 Explain the principles used in physical anthropology 2.3 Explain the importance of physical anthropology 2.4 Explain basic fractures in osteology 	Explain the principles used in physical anthropology Explain the importance of physical anthropology Explain basic fractures in osteology	Marker Marker Board Internet resources Projector	Identify the differences in human skeleton based on gender, age and laterality Identify fractures on human bones	Identify the differences in human skeleton based on gender, age and laterality Identify fractures on human bones	Proper-PPE Ruler Clipper Measuring tape X-ray View Board Sample case study
Genera 11-14	3.1 Explain ethical considerations in forensic anthropology 3.2 Explain how forensic anthropology contribute to the identification of unidentified persons 3.3 Explain how forensic Anthropology contribute to Justice system.	Explain ethical considerations in forensic anthropology Explain how forensic anthropology contribute to the identification of unidentified persons Explain how forensic Anthropology contribute to Justice system	Textbooks Journals Computer Charts Marker Marker Board Internet resources Projector	ing criminal cases		
EVALU	ATION: C.A: EXAMINATION	40% 60%	70			

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

- 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 Explain the role of	Whiteboard Markers Lecture notes Slides	Visit hospitals/ Morgues and observe post mortem	Guide student to: Visit hospitals/ Morgues and observe post	Urine toxicology strips
	1.2 Explain the role of forensic pathology in determining cause and manner of death	_	Pictures Projector Computer Internet resources	examination	mortem examination	Blood Stool Video clips
	1.3 Explain the differences between various causes of death			Identify the common post-mortem changes after death	Identify the common post-mortem changes after death	Pictorials Sample containers
	1.4 Explain the common post- mortem changes	Explain the common post-mortem changes		Identify common	Identify common	Proper-PPE
	1.5 Explain the significance of post-mortem changes in	Explain the significance of post-mortem changes		substances tested for post-mortem toxicology	substances tested for post-mortem toxicology	

	death investigations 1.6 Define autopsy 1.7 Define medico-legal autopsy 1.8 Outline the steps involved in medico-legal autopsy 1.9 Explain the importance of documentation and sample collection during autopsy 1.10 Explain the role of	in death investigations. Explain autopsy Explain medico-legal autopsy Explain the steps involved in medico-legal autopsy Explain the importance of documentation and sample collection during autopsy				Sample coroner's autopsy reports
	toxicology in forensic pathology	Explain the role of toxicology in forensic	2			
	1.11 Explain common substances tested in post- mortem toxicology and their implications	pathology. Explain common substances tested in post-morten toxicology and their implications)			
	al Objective 2.0: Know assaults		determining cau	ise 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	Markers Projectors	Identify types of assaults	Identify types of assaults	Pictures
	10/N	injury	Internet resource Textbooks	Interpret assault patterns and correlate	Interpret assault patterns and	Proper-PPE

	 2.3 Outline types of assaults 2.4 Explain types of assaults mechanisms 2.5 Explain how the mechanisms in 2.3 relate to potential causes of death 	Explain types of assaults Explain types of assaults mechanisms Explain how the mechanisms in 2.3 relate to potential causes of death		findings	correlate them with potential scenarios Report Assault findings	Sample coroner's autopsy reports
Gener 8-10	al Objective 3.0: Know guidelin 3.1 Explain sample collection during autopsy	es on the collection and present the collection sample collection during autopsy	Markers Projectors Internet	Samples during autopsy Visit hospitals/Morgues	Guide students to. Visit	Television CD sample
	3.2 Explain sample preservation during autopsy	Explain sample preservation during autopsy	Textbooks Journals Computer Whiteboard	and observe post mortem examination	and observe post mortem examination	forms sample labels
	3.3 Explain sample transportation and storage during autopsy	Explain sample transportation and storage during autopsy		Demonstrate sample collection, preservation, transportation and	Demonstrate sample collection, preservation, transportation and	storage bags tags Proper-PPE
	3.4 Explain how to handle reports and enter in a register	Explain how to handle reports and enter in a register		storage Handle dummy reports and enter in a register	storage Handle dummy reports and enter in a register	r roper-r r E
	WATE	<u>, </u>	74		,	,

eneral Objective 4.0: Know the basi	cs of forensic toxicology				
1-12 4.1 Define toxins	Explain toxins	Marker	Identify samples for	Guide students to:	Fridge
		projectors.	toxicology analysis	Identify samples	
4.2 Define forensic toxicology	Explain forensic	Internet		for toxicology	Coolant
	toxicology	resource	Demonstrate methods	analysis	
425 1: 1 6: 1		Textbooks	of collection,		Sample
4.3 Explain classes of toxins	Explain classes of	Journals	preservation and	Demonstrate	bags
and mode of action	toxins and mode of	Computer	storage of samples	methods of	
	action	Whiteboard	for toxicology	collection,	Sample
4.4.0-41:				preservation and	containers
4.4 Outline samples required	Explain samples			storage of	
for toxicology analysis	required for toxicology		Perform urine	samples for	Chromato-
	analysis		toxicology using test	toxicology	graphic
4.5. Evaloin mothede of			strips		equipment
4.5 Explain methods of	Explain methods of			Perform urine	
collection and preservation of samples for toxicology	collection and			toxicology using	Pictures an
of samples for toxicology	preservation of samples) `	Detect, assay	test strips	video of
	for toxicology		quantitative and		mass
4.6 Explain methods of	Explain methods of		qualitative:	Detect, assay	spectra
detection and assay of	detection and assay		Bio-chemical	quantitative and	
toxins	detection of toxins		• Trace	qualitative:	Spectro-
toxins	uctection of toxins		elements	• Bio-	photomete
4.7 Explain a forensic	Explain a forensic			chemical	
toxicologist	toxicologist		Utilize selective	• Trace	Urine
toxicologist	tomeologist		migration to generate	elements	toxicology
4.8 Explain role of forensic	Explain role of forensic		chromatograms of:	Utilize selective	strips
toxicologist in forensic	toxicologist in forensic		• Bio-chemical	migration to	
toxicologistili foldlisic	<i>y</i>			generate	

	investigation	investigation		Organic compounds	chromatograms of: • Bio chemical Organic compounds	containers Proper-PPE
Genera	al Objective 5.0: Recognize doc	umentary evidence				
13-15	5.1 Define evidence	Explain evidences	Markers			
			Projectors			
	5.2 Explain documentary	Explain documentary	Internet	(NO)		
	evidence	evidence	resource	197		
			Textbooks			
	5.3 Explain types of	Explain types of	Journals			
	documentary evidence	documentary evidence	Computer			
			Whiteboard			
	5.4 Explain the authenticity of	Explain the authenticity	Dummy			
	documentary evidence	of documentary	Medical			
		evidence	certificate			
		X	Death			
			certificate			
		,0,0				

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:					
Year: II Semester: I Pre-requisite: Practical 1							
GOAL: This course is designed to equip students with knowledge and skills in forensic ballistics.							

- 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

PROG	RAMME: NATIONAL DIPI	OMA FORENSIC TECH	INOLOGY			,
Course	e Title: Forensic Ballistics	Course Code: FR'	Т 213		Contact Hours: 2	
		Credit Unit: 2		7	Theoretical: 1	
Year:	II Semester: I	Pre-requisite:		I	ractical: 1	
	SE SPECIFICATION: THE					
	: This course is designed to equ			Forensic Ballistics	V	
Genera	al Objective 1.0: Understand F	undamentals of Forensic Ba	allistics			
THEC	DRETICAL CONTENT			PRACTICAL CON	ITENT	
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
	1.1 Define Forensic Ballistics	Explain Forensic	Charts	/ //	Guide students to:	Magnifying
1-3		Ballistics		Visit Law	Visit Law	lens
	1.2 List types of ballistics	List types of ballistics	Journals Computer Projector	Enforcement Training institutes	Enforcement Training institutes	Pictures of arms and
	J 1	Explain the history of	Whiteboard	Identify types of Firearm	Identify types of Firearm	ammunition and their labels
	 1.4 Explain the scope of Forensic ballistic: Firearm identification Ammunition analysis Gunshot residue analysis Trajectory analysis 	Explain the scope of Forensic ballistic: Firearm identification Ammunition analysis Gunshot residue analysis Trajectory analysis	Internet resources	Identify ammunition components Apply safety protocols for handling ballistic evidence	Identify ammunition components Apply safety protocols for handling ballistic evidence	Proper-PPE Container Cotton wool

 Collection kits Time sensitivity Collection kits Shotgun wads and pallets: Recovery Comparison microscope Shotgun wads and pallets 						
Components Contrainers Components Components Contrainers Components Contrainers Components Contrainers Contra	1.5 Explain types of Fi	ırm Explain Firearm types				Ť
Components Control total Control	1.6 Explain ammunitic	Explain ammunition				
General Objective 2.0: Know Forensic Ballistic Evidence Collection 4-6	_	-				
2.2 Explain the process of ballistic evidence collection: Fired bullets: • Locate and handle carefully • Packaging Cartridge cases: • Identify and collect • Marking Gunshot Residue (GSR): • Swabbing • Collection kits • Time sensitivity Shotgun wads and pallets: • Recovery Explain ballistic evidence ballistic evidence collectue Explain the process of ballistic evidence ballistic evidence collection Explain ballistic evidence ballistic evidence Charts Charts Pictures Charts Pictures Charts Pictures Charts Posocks Enforcement Training institutes Computer Projector Whiteboard ballistic evidence ballistic evidence collection Internet resources Write report Write report Ballistic samples Magnifying Enforcement Training institutes Computer Projector Whiteboard ballistic evidence collection Containers Containers Containers Source of lig Containers Containers Write report Write report Write report Proper-PPE Swab Pictures of to comparison microscope	-	orensic Ballistic Evidence Colle	ction			
2.2 Explain the process of ballistic evidence collection: Fired bullets: • Locate and handle carefully • Packaging Cartridge cases: • Identify and collect • Marking Gunshot Residue (GSR): • Swabbing • Collection kits • Time sensitivity Shotgun wads and pallets: • Recovery Explain the process of ballistic evidence collection Explain the process of ballistic evidence collection Explain the process of ballistic evidence collection Books Enforcement Training institutes Computer Projector Whiteboard Marking resources Identify process of ballistic evidence collection Containers Source of light Containers Source of light Containers Source of light Containers Containers Write report Write report Write report Figure Source of light Containers Containers Cotton wool Cotton wool					Guide students to:	Ballistic
2.2 Explain the process of ballistic evidence collection: Fired bullets: • Locate and handle carefully • Packaging Cartridge cases: • Identify and collect • Marking Gunshot Residue (GSR): • Swabbing • Collection kits • Time sensitivity Shotgun wads and pallets: • Recovery Explain the process of ballistic evidence collection Books Charts Visit Law Enforcement Training institutes Visit Law Enforcement Training institutes Computer Projector Whiteboard ballistic evidence collection Identify process of ballistic evidence collection Write report Write report Write report Write report Fired bullets: • Locate and handle carefully • Packaging • Locate and handle carefully • Packaging Cartridge cases: • Identify and collect • Marking Gunshot Residue (CSR) • Swabbing • Collection kits • Time sensitivity Shotgun wads and pallets: • Recovery	2.1 Explain sumsite ev	Explain sumstic evidence				
ballistic evidence collection: Fired bullets: Locate and handle carefully Packaging Cartridge cases: Identify and collect Marking Gunshot Residue (GSR): Swabbing Collection kits Time sensitivity Shotgun wads and pallets: ballistic evidence collection Books Books Books Enforcement Training institutes Computer Projector Whiteboard ballistic evidence collection Write report Charts Books Enforcement Training institutes Training institutes Computer Projector Whiteboard ballistic evidence collection Cotton wool Write report Write report Write report Write report Write report Comparison microscope Shotgun wads and pallets Dournals Training institutes Computer Projector Whiteboard ballistic evidence collection Uniternation Training institutes Containers Source of light and to collection Write report Cotton wool Write report Proper-PPE Containers Contraines Containers Containers Conton wool Write report Proper-PPE Swab Pictures of to Comparison microscope Reflice meters Computer Projector Write report Proper-PPE Swab Pictures of to Comparison microscope Reflice meters Computer Projector Write report Proper-PPE Swab Pictures of to Comparison microscope Reflice meters Computer Projector Write report Proper-PPE Swab	2.2 Explain the proces	f Explain the process of			•	_
Fired bullets: • Locate and handle carefully • Packaging Cartridge cases: • Identify and collect • Marking Gunshot Residue (GSR): • Swabbing • Collection kits • Training institutes • Locate and handle carefully • Packaging Cartridge cases: • Identify and collect • Marking Gunshot Residue (GSR): • Swabbing • Collection kits • Time sensitivity Shotgun wads and pallets: • Recovery Fired bullets: • Locate and handle carefully • Locate and handle carefully • Projector ballistic evidence collection Cotton wool Cotton wool Write report Framing institutes Computer Projector Whiteboard ballistic evidence collection Cotton wool Cotton wool Proper-PPE Swab Pictures of to Comparison microscope Swab Pictures of to Comparison microscope Proper-PPE Source of light computer Computer Projector Write report Proper-PPE Source of light computer Computer Projector Write report Proper-PPE Source of light comparison to the part collection Cotton wool Proper-PPE Swab Pictures of to Comparison microscope Proper-PPE Swab Pictures of to Comparison microscope Proper-PPE Swab Pictures of to Comparison microscope Proper-PPE On particular propers Comparison microscope Proper-PPE On particular propers Proper-PPE On particular propers Proper-PPE On particular propers Proper-PPE Proper-PPE On particular propers Proper-PPE On particular propers Proper-PPE On particular propers Proper-PPE On particular propers Proper-PPE Proper-P				Visit Law	Visit Law	Magnifying
 Locate and handle carefully Packaging Cartridge cases: Identify and collect Marking Gunshot Residue (GSR): Swabbing Collection kits Time sensitivity Recovery Locate and handle carefully Projector Whiteboard ballistic evidence collection Whiteboard ballistic evidence collection Write report Write report Write report Write report Comparison microscope Shotgun wads and pallets Recovery 	collection:	collection	Books	Enforcement	Enforcement	lens
 Locate and handle carefully Packaging Cartridge cases: Identify and collect Marking Gunshot Residue (GSR): Swabbing Collection kits Time sensitivity Shotgun wads and pallets: Recovery Locate and handle carefully Projector Whiteboard ballistic evidence collection Marking Gunshot Residue (GSR) Swabbing Collection kits Time sensitivity Recovery 	Fired bullets:	Fired bullets:	Journals	Training institutes	Training institutes	Source of light
 Packaging Cartridge cases: Identify and collect Marking Gunshot Residue (GSR): Swabbing Collection kits Time sensitivity Shotgun wads and pallets: Recovery Whiteboard ballistic evidence collection Markers collection Markers collection Markers collection Write report Write report Write report Write report Cotton wool Write report Comparison microscope Billistic evidence collection Write report Cotton wool Write report Swab Cotton wool Cotton wool Write report 	 Locate and han 	 Locate and handle 				
Cartridge cases: Identify and collect Marking Cunshot Residue (GSR): Collection kits Collection kits Consparison Shotgun wads and pallets: Recovery Cartridge cases: Identify and collect Internet resources Markers Collection Markers Collection Write report Cotton wool Markers Collection Write report Cotton wool Cotton wool Note of the collection with the collection with the collection wool Cotton wool Cotton wool Note of the collection Cotton wool Cotton wool Cotton wool Cotton wool Proper-PPE Swab Pictures of the collection Cotton wool Cotton wool Cotton wool Swab Swab Pictures of the collection Swab Pictures of the collection wool Cotton wool Swab	1				Identify process of	Containers
 Identify and collect Marking Gunshot Residue (GSR): Swabbing Collection kits Time sensitivity Shotgun wads and pallets: Recovery Identify and collect resources Marking Marking Swab Write report Write report Write report Write report Comparison microscope Shotgun wads and pallets 	0 0	5 5	Whiteboard	ballistic evidence		Cotton wool
 Marking Gunshot Residue (GSR): Swabbing Collection kits Time sensitivity Shotgun wads and pallets: Recovery Write report Swab Comparison microscope Shotgun wads and pallets Pictures of to the content of th				collection	collection	Cotton woor
Gunshot Residue (GSR): Swabbing Collection kits Time sensitivity Shotgun wads and pallets: Recovery Marking Swab Outshot Residue (GSR) Swabbing Collection kits Swabbing Comparison Time sensitivity Shotgun wads and pallets: Recovery Swabbing Comparison Time sensitivity Shotgun wads and pallets Swab Pictures of to the sensitivity Swab Pictures of to the sensitivity Swab Pictures of to the sensitivity Shotgun wads and pallets Swab Pictures of to the sensitivity Shotgun wads and pallets				W	Write report	Proper-PPE
 Swabbing Collection kits Time sensitivity Shotgun wads and pallets: Recovery Gunshot Residue (CSR) Swabbing Collection kits Comparison microscope Shotgun wads and pallets 		Concet	resources	write report	write report	G 1
 Collection kits Time sensitivity Shotgun wads and pallets: Recovery Swabbing Collection kits Comparison microscope Shotgun wads and pallets 	,					Swab
 Time sensitivity Collection kits Shotgun wads and pallets: Recovery Comparison microscope Shotgun wads and pallets 						Pictures of the
Shotgun wads and pallets: Recovery Time sensitivity Shotgun wads and pallets Piffing meta						
Recovery Shotgun wads and pallets Diffling motor	The state of the s					-
Diffing mate	1 - 1					microscope
						Rifling meter
Separate packaging recovery	Separate packa					
Separate Scissor						Scissor
packaging Camera		packaging				Camera
2.3 Explain labelling and Explain labelling and	2 3 Explain labelling a	Explain labelling and				Cumcru
documentation	1	_				
Evidence labels Evidence labels Thodizonate						rhodizonate
Chain of custody Chain of custody						

Gener	al Objective 3.0: Understand F	orensic Ballistics in Crime	Scene Recon	struction		7
7-10	 3.1Explain the role of ballistics in crime scene reconstruction: The type of firearm used Firing distance Bullet trajectory Shot placement on victims 	Explain the role of ballistics in crime scene reconstruction: • The type of firearm used • Firing distance • Bullet trajectory • Shot placement on victims	Textbooks Pictures Charts Books Journals Computer Projector Whiteboard Markers Internet resources	Role play in crime scene scenario	Guide students to: Role play in crime scene scenario	Video clips Pictorials Crime scene sketches Crime scene dimensional sketches Simulation
	 3.2 Explain ballistics and impact analysis: Entry and exit wounds: Wound examination Distance estimation Impact locations: Surface marks Reconstruction of events 	Explain ballistics and impact analysis: Entry and exit wounds: • Wound examination • Distance estimation Impact locations: • Surface marks • Reconstruction of events	Resources			software
	 3.3 Explain shooting incident reconstruction: Establishing sequence of events Collaborating with other disciplines 	Explain shooting incident reconstruction: • Establishing sequence of events • Collaborating with other disciplines				

TT/11 1 1 1	TT.'1' '				
Utilizing technology (2D simulation)	<u> </u>				
(3D simulation)	technology (3D			. (Y ·	
General Objective 4.0: Understand	simulation)	d Tastimony			
				Cuido studente to:	Comple
1-13 4.1 Explain the components		Lecture notes		Guide students to:	Sample Forensic
of a ballistic report:	of a ballistic report:		Write a Forensic	Write a Forensic	ballistic report
A case information:	A case information:	Charts	ballistic report	ballistic report	banistic report
Sample name	• Case number	Books			
• Case number	• Date and time of	Journals	~()		
 Date and time of 	collection	Computer			
collection	• Location	Projector			
• Location	 Names of involved 	Whiteboard	// /		
 Names of involved 	parties	Markers			
parties	_	Internet			
Description of evidence	Description of evidence	resources			
collected:	collected:				
Type of evidence	• Type of evidence				
 Condition of evidence 	• Condition of				
Methodology:	evidence				
• Collection procedures	Methodology:				
Analysis techniques	 Collection procedure 				
Findings:	• Analysis techniques				
Firearm identification					
	Firearm identification				
• Ammunition details		L			
Striation analysis	Ammunition details				
• Trajectory analysis	Striation analysis				
GSR Analysis	 Trajectory analysis 				
WATE					
		81			

T		
Conclusion:	• GSR Analysis	
 Summary of findings 	Conclusion:	
 Limitations 	Summary of	
Appendices:	findings	
 Photographs and 	• Limitations	
diagrams	Appendices:	
 Data tables 	Photographs and	
	diagrams	
	Data tables	
4.2 Explain the preparation	Explain the preparation for	
for testimony	testimony	
4.3 Explain Testimony	Explain Testimony	
structure	structure	
4.4 Explain best practice for	Explain best practice for	
effective testimony:	effective testimony:	
• Use clear language	Use clear language	
Be objective	Be objective	
• Use visual aids	Use visual aids	
4.5 Explain expert opinion	Explain expert opinion on	
on forensic ballistics	forensic ballistics	

	al Objective 5.0: Understand the		ensic Ballistic	cs		· ·
3-15	5.1 Explain the laws,	Explain the laws,	Lecture		Guide students to:	Internet
	regulations and	regulations and	notes			resources
	procedures that govern	procedures that govern	Pictures	Setup a mock court	Setup a mock	
	how ballistic evidence is	how ballistic evidence is	Charts	session	court session	
	collected, analysed, and	collected, analysed, and	Books			
	presented in Nigerian	presented in Nigerian	Journals			
	Legal System	Legal System	Computer			
			Projector			
	5.2 Explain the integrity of	Explain the integrity of	Whiteboard	·40°		
	forensic investigations	forensic investigations	Markers			
	and the admissibility of	and the admissibility of	Internet			
	evidence:	evidence:	resources	V ''		
	 Chain of Custody 	 Chain of Custody 				
	Exhibit keeper	Exhibit keeper	XV			
	5.3 Explain expert's relevant	Explain expert's relevant				
	education, training, and	education, training, and	V -			
	experience, which can be	experience, which can be				
	scrutinized during legal	scrutinized during legal				
	proceedings	proceedings				

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					
Year: II Semester: I Pre-requisite: 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 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

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY						
on I Course Code:	FRT 214	Con	ntact Hours: 2			
Credit Unit:	2	Th	eoretical: 1			
Pre-requisite	e:	Pra	acticals 1			
EORETICAL AND PR	ACTICAL	·				
acquaint the student wit	h knowledge a	nd skills of docum	ent examination			
l principles of Documer	nt Examination	_1				
		PRACTICAL CO	NTENT			
Teacher's Activities	Resources	Specific Learning Outcome	g Teacher's Activities	Resources		
Explain Document Explain Examination Explain Document Examination Explain types of documents: • Handwritten • Printed Explain the historical background of document examination in forensic analysis	Computer Lecture notes Slides Markers Evaser Whiteboard Internet resources Software	Identity types of documents Distinguish betwe	Guide students to: Identify types of documents	Sample documents Sample disputed documents Magnifying glass Hardware Simulation		
	Teacher's Activities Explain Document Explain types of documents: • Handwritten • Printed Explain the historical background of document examination in forensic analysis	Credit Unit: 2 Pre-requisite: EORETICAL AND PRACTICAL acquaint the student with knowledge and principles of Document Examination Teacher's Resources Explain Document Textbooks Projector Explain Examination Computer Lecture notes Explain Document Slides Explain Document Slides Examination Markers Explain types of documents: • Handwritten • Printed Whiteboard Internet resources Software Explain the historical background of document examination in forensic analysis Explain the	Credit Unit: 2 Pre-requisite: EORETICAL AND PRACTICAL acquaint the student with knowledge and skills of docum principles of Document Examination PRACTICAL CO Teacher's Resources Specific Learning Outcome Explain Document Textbooks Projector Computer Lecture notes Explain Document Slides Explain Document Examination Examination Markers Explain types of Whiteboard Internet Explain types of Mocuments: Handwritten Frinted Software Explain the historical background of document examination in forensic analysis Explain the	Credit Unit: 2 Pre-requisite: EORETICAL AND PRACTICAL acquaint the student with knowledge and skills of document examination PRACTICAL CONTENT Teacher's Activities Explain Document Explain Document Explain Document Explain Document Examination Explain Document Examination Explain Document Examination Explain types of documents Explain the historical background of document examination in forensic analysis Explain the		

	Examination	Document				
		Examination				
	1.7 Explain known and	Explain known and				
	unknown documents	unknown documents				
	1.8 State landmark legal	Explain landmark				
	cases involving	legal cases involving				
	Document Examination	Document				
		Examination				
	1.9 Explain Legal standards			110		
	and admissibility of	standards and				
	evidence	admissibility of				
		evidence				
Gener	ral Objective 2.0: Know Tool	s and Technology in Do	cument Exami	nation		
4-6	2.1 Explain use of	Explain use of	Textbooks		Guide students to:	Microscopes
	microscopes and	microscopes and	Projector			_
	imaging technology in	imaging technology in	Computer	Examine documents	Examine documents	Magnifying
	document examination	document examination	Lecture notes	using:	using:	lens
			Slides	 Microscopes 	 Microscopes 	
	2.2 Explain software for	Explain software for	Markers	 Magnifying 	 Magnifying lens 	Imager
	digital document	digital document	Eraser	lens	• Imager	
	examination	examination	Whiteboard	 Imager 	Software	Software
			Internet	Software	Hardware	
	2.3 Explain emerging	Explain emerging	resources	Hardware	Emerging	Hardware
	technologies in	technologies in		• Emerging	Technology	
	document analysis	document analysis		Technology	1 comology	
				Technology		

ene	ral Objective 3.0: Understand	l Handwriting Analysis		_		-
-8	3.1 Explain disputed	Explain disputed	Text books		Guide students to:	Sample
	documents	documents	Projector		. 10'	disputed
			Computer	Analyze hand written	Analyze hand written	document
	3.2 Explain reference	Explain reference	Lecture notes	documents for	documents for	
	documents	documents	Slides	alterations	alterations	Sample
			Markers		uncrations .	reference
	3.3 Explain Handwriting	Explain Handwriting	Eraser	Analyze printed	Analyze printed	document
	analysis	analysis	Whiteboard	documents for	• •	Missassassassassassassassassassassassassa
	2 4 Explain the tools for	Explain the tools for	Internet		documents for	Microscopes
	3.4 Explain the tools for	Explain the tools for	resources	alterations	alterations	Magnifying
	handwriting analysis	handwriting analysis				Magnifying
	3.5 Explain techniques used	Evploin tochniques		Identify tools for	Identify tools for	lens
	for handwriting	used for handwriting		handwriting analysis	handwriting analysis	Measuring
	analysis	analysis	/			Ruler
	anarysis	anarysis		Identify techniques for	Identify techniques for	Ruici
	3.6 Explain Factors	Explain Factors		analyzing handwriting	analyzing handwriting	Vernier
	affecting handwriting:	affecting handwriting:		J	anaryzmą nanawnimą	Caliper
	• Age	• Age				
	Health etc.	Health etc.				Light source
	Treatmete.	Tieattii ett.	•			
	3.7 Explain types of	Explain types of				Imager
	printers:	printers:				
	• Laser	• Laser				Software
	 Inkjet etc. 	Inkjet etc.				
	miget etc.	The state of the s				Hardware
	3.8 Explain printing	Explain printing				
	identification methods	identification methods	;			
	WALL					
	A_{i}		87			

Gener	al Objective 4.0: Understand	l Paper and Ink Analysis				Y
9-10	4.1 Define paper	Explain paper	Textbooks		Guide students to:	Assorted
			Projector		. 10"	papers
	4.2 Explain types of paper	Explain types of paper	Computer	Identify types of paper	Identify types of paper	
	and their characteristics	and their	Lecture notes	and their	and their	
		characteristics	Slides	characteristics	characteristics	Assorted inks
			Markers			
	4.3 Explain types of ink	Explain types of ink	Eraser	Identify types of inks		
			Whiteboard	and their composition	and their composition	Microscopes
	4.4 Explain Ink composition	Explain Ink	Internet	. ())		
		composition	resources	Demonstrate	Demonstrate	Magnifying
				techniques for the	techniques for the	lens
	4.5 Explain the methods of	Explain the methods		identification of	identification of	
	analysis of ink	of analysis of ink		alterations and forgery	alterations and forgery	Imager
	composition	composition				
						Software
	4.6 Explain techniques for	Explain techniques for				
	identifying alterations	identifying alterations				Hardware
	and forgery	and forgery				
Gener	al Objective 5.0: Understand	l Digital Document Seq	uîty			
11-12	5.1 Define Digital	Explain Digital	Textbooks		Guide students to:	Software for
	Documents	Documents	Projector			Encryption
			Computer	Verify the encryption	Verify the encryption	
	5.2 Explain Encryption	Explain Encryption	Lecture notes	in digital document.	in digital document.	Software for
	methods for digital	methods for digital	Slides			signature
	documents	documents	Markers	Authenticate Digital	Authenticate Digital	verification
			Eraser	Signature	Signature	
	5.3 Explain Digital	Explain Digital	Whiteboard			Storage
	signatures and	signatures and	Internet	Store documents	Store documents	device
	authentication	authentication	resources	 Cloud 	 Cloud 	
				• Local	• Local	Simulation
				Local	1 Docum	software
	WAI		88			
	•					

	5.4 Explain Secure storage solutions (cloud and local)	Explain Secure storage solutions (cloud and local)			CA	
	al Objective 6.0: Understand		ments			
13-14	6.1 Define Document disposal	Explain Document disposal	Text books Projector Computer	Dispose documents	Guide students to: Dispose documents	Shredder Digital
	 6.2 Explain types of legal document disposal methods Shredding Burning Overwrite etc. 6.3 Explain the procedure for document disposal 6.4 Explain the role of documenting disposal 	Explain types of legal document disposal methods • Shredding • Burning • Overwrite etc. Explain the procedure for document disposal Explain the role of documenting disposal		legally	legally	shredder Incinerator Sample disposal register
EVALU	activity JATION: C.A: EXAMINATION:	activity 40% 60%	89			1
	M.					

PROGRAMME: NATIONAL DIPLOMA FOREN	ISIC TECHNOLOGY	
Course Title: Instrumentation and Investigation	Course Code: FRT 215	Contact Hours: 2
Technique	Credit Unit: 2	Theoretical:
Year: II Semester: I	Pre-requisite:	Practical: 1
<u> </u>		

GOAL: This course is designed to equip students with knowledge and skills of instruments used in conducting forensic investigation.

- 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.

PROG	PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY							
Course Title Instrumentation and Investigation		Course Code: FRT 215		Contact Hours: 2				
Technic	que		Credit Unit:	: 2	Theoretical: 1			
Year:	II Semester: I		Pre-requisit	e:	Practical: 1			
	SE SPECIFICATION: T							
	: This course is designed to				d in conducting forensic	c investigation.		
	al Objective 1.0: Understan	nd instrument and foren	sic investigati	1				
	RETICAL		T	PRACTICAL		T		
Week	Specific Learning	Teacher's	Resources	Specific Learning	Teacher's	Resources		
	Outcome	Activities		Outcome (Activities			
1-5	1.1 Define	Explain	Textbooks	Identify instruments	Guide students to:	Video clips		
	instrumentation	instrumentation	Computer	used in investigation				
			Internet	techniques.	Identify instruments	Software		
	1.2 Define forensic	Explain forensic	resources		used in investigation			
	investigation	investigation	Projector	Identify the types of	techniques	Analytical		
	125 1		Whiteboard	<u> </u>	T1 .: C .1	instruments		
	1.3 Explain types of	Explain types of	Marker	techniques	Identify the types of			
	forensic investigation	forensic investigation	Software		forensic	Microscope		
	techniques	techniques	Eraser	Show video clips	investigation techniques			
	1.4 Explain instruments	Explain instruments	X	demonstrating	techniques	Weighing		
	used in forensic	used in forensic		methods in forensic	Show video clips	balance		
	investigation	investigation		investigation	demonstrating			
	techniques	techniques		investigation	methods in forensic	Laboratory		
	teeninques	teemiques		Calibrate,	investigation	hardware and		
	1.5 Explain quality	Explain quality		standardize, range	mvestigation	consumables		
	control in forensic	control in forensic		and limits of	Calibrate,			
	investigation	investigation		instrument in forensic	standardize, range			
		- Suganon		analysis	and limits of			
	1.6 Explain how forensic	Explain how forensic		<i>J</i>	instrument in			
	investigation ensures	investigation ensures			forensic analysis			
	integrity of traced	integrity of traced			,			

	<u></u>					
	evidence	evidence			100	
	1.7 Explain calibration,	Explain calibration,				
	standardization, range	standardization,				
	and limitation of	range and limitation				
	instrument in forensic	of instrument in				
	analysis	forensic analysis				
	al Objective 2.0: Understa			evidence in court.		
6-10	2.1 Explain court system	Explain court system	Textbooks		Guide students to:	Sample data
	and their jurisdiction	and their jurisdiction	Computer			analysis form
	in Nigeria	in Nigeria	Internet	Identify court	Identify court	
			resources	systems and their	systems and their	
	2.2 Explain procedure of	Explain procedure of	Projector	jurisdiction in Nigeria	jurisdiction in	
	presentation of	presentation of	Whiteboard		Nigeria	
	*	evidence in court	Marker Software		Tigoria	
	evidence in court	evidence in court	Eraser	Identify procedure of	Identify procedure	
	2.2 Evaleia esissiael	Evalsia seiminal	Liasci	,	, · ·	
	-	Explain criminal		presentation of	of presentation of	
	justice system Act	justice system Act		evidence in court	evidence in court	
	2.4 Explain how data is	Explain how data is		Collect and interpret	Collect and interpret	
	collected and	collected and		data in forensic	data in forensic	
	interpreted in forensic	interpreted in forensic		technology.	technology.	
	technology	technology				
	l	(comony)		Report	Report	
	2.5 Evaloin quality	Evalora quality		*	_	
		Explain quality		reproducibility of	reproducibility of	
	control in ensuring	control in ensuring		result	result	
		reliability of results				
	obtained from	obtained from		Apply chain of	Apply chain of	
	detection methods in	detection methods in		custody to ensure	custody to ensure	

	1	1			
Forensic Technology	Forensic Technology		reliability and	reliability and	•
			validity of results in	validity of results in	
2.6 Explain reliability	Explain reliability		court	court	
and validity of results	and validity of results				
in court proceedings	in court proceedings				
Objective 3.0: Understand method	ds of suspect identificati	on.			
11-14 3.1 Explain instrument	Explain instrument	Textbooks			
advancements made	advancements made	Computer			
in the field of forensic	in the field of forensic	Internet	()		
technology	technology	resources			
		Projector Whiteboard			
3.2 Explain the role of	Explain the role of	Marker			
instrumentation in	instrumentation in	Software 4			
establishing a suspect	establishing a suspect	Eraser			
3.3 Explain the role of	Explain the role of	_0_			
instruments in	instruments in				
eliminating human	eliminating human				
biases	biases				
3.4 List examples of	Explain examples of				
successfully cases	successfully cases				
with instrument	with instrument				
investigation	investigation				
mvestigation	in vostigation				
1.					
3.5 Explain links	Explain links				
evidence to suspects	evidence to suspects				
evidence to suspects	c riacinee to suspects				

_					<u> </u>	•
	in criminal	in criminal		7		
	investigations	investigations			~	

EVALUATION: C.A:

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.							

- 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 FOR		
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 A	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

THEO	RETICAL CONTENT			PRACTICAL C	ONTENT	
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learnin Outcome	g Teacher's Activities	Resources
1-3	1.1 Define Research	Explain Research	Textbooks Projector	O'		
	1.2 Explain types of research	Explain types of research	Computer Lecture notes Marker			
	1.3 Explain Research Methodology	Explain Research Methodology	Whiteboard Eraser Internet			
	1.4 Explain the importance of Research in forensic technology	Explain the importance of Research in forensic technology	resources			
	1.5 Explain the scientific methods used to collect forensic samples/data	Explain the scientific methods used to collect forensic samples/data				

· •	Explain the scientific	
methods used to	methods used to analyze	
analyze forensic	forensic samples/data	
samples/data		
1.7 Explain the scientific	Explain the scientific	
methods used to	methods used to	
interpret forensic	interpret forensic	
evidence	evidence	
1.8 Explain plagiarism in	Explain plagiarism in	
1 1 5	research	
1.9 Explain the	Explain the importance	
importance of anti-	of anti-plagiarism	
plagiarism software	software	
General Objective 2.0: Understand	d Research on Evidence	
4-8 2.1 Define evidence-based		
practices	practices.	Projector
anarysis		
2.3 Explain ethics in		
research-based	research-based	
techniques in forence	· · ·	
technology	technology	
importance of antiplagiarism software General Objective 2.0: Understand 4-8 2.1 Define evidence-based practices 2.2 Explain accuracy in research-based techniques in forensic analysis 2.3 Explain ethics in research-based techniques in forensic in forensic in research-based techniques in forensic in fo	of anti-plagiarism software Research on Evidence Explain evidence-based practices. Explain Accuracy in research-based techniques in forensic analysis Explain ethics in research-based techniques in forensic	Text books

	2.4 Explain objectivity of	Explain objectivity of				
	evidence analysis	evidence analysis				
		_				
	2.5 Explain reducing	Explain reducing				
	subjective	subjective				
	interpretations	interpretations				
Genera	al Objective 3.0: Understand	d Innovation and Researc	h in Forensic T	echnology		
9-11	3.1 Explain new	Explain new	Text books			
	methodologies in	methodologies in	Projector			
	existing forensic	existing forensic	Computer	2()		
	practices	practices	Marker			
	•		Whiteboard	10,		
	3.2 Explain how	Explain how	Eraser			
	collaborative research	collaborative research	Journals 🗼			
	can improve existing	can improve existing	Internet			
	forensic practices	forensic practices	resources			
				•		
	3.3 Explain innovation to	Explain innovation to	_0_			
	advanced forensic	advance forensic				
	techniques and	techniques and				
	technology	technology				
		· ·				
	3.4 Explain the integrity	Explain the integrity of				
	of evidence in forensic					
	research	research				
Genera	l Objective 4.0: Understan	d Report Writing in Research	arch		•	•
12-14	4.1 Define research report		Text books			
	writing	writing	Projector			
	1	V	Computer			
	4.2 Explain preliminary	Explain preliminary	Lecture notes			
	chapters in research	chapters in research	Slides			
	Abstract	• Abstract	Marker			
			1			

 Introduction Literature review Methodology Results Discussion Recommendation and conclusion 4.3 Explain referencing in research 	 Literature review Methodology Result Discussion Recommendation and conclusion 	Whiteboard Eraser Journals Internet resources	
EVALUATION: C.A: EXAMINATION:	30% 70%		
WATION		99	

YEAR II SEMESTER II

PROGRAMME: NATIONAL DIPLOMA								
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								

GUAL: This course is designed to acquaint the student with knowledge and skills of Do

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

PROGR	AMME: NATIONAL DIPI	LOMA FORENSIC TEC	CHNOLOGY			•
Course 7	Fitle : Document Examination	II Course Code:	FRT 221	Con	tact Hours; 3	
		Credit Unit:	3	The	eoretical: 2	
Year:	II Semester: II	Pre-requisite:	FRT 214		ctical: 1	
COURS	E SPECIFICATION: THE	ORETICAL AND PRACT	ΓICAL	V	X	
GOAL:	This course is designed to account	quaint the student with kn	owledge and ski	ills of Document Exam	mation	
General	Objective 1.0: Understand I	Forensic Currency				
THEOR	RETICAL CONTENT			PRACTICAL CONT	ENT	
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources
1-4	1.2 Explain types of	Explain Currency Explain types Currency their security features	Textbooks Projector Computer Marker Whiteboard Eraser	Identify types of currency and their security features	Guide students to: Identify types of currency and their security features	Currencies
	1.3 Explain authentic and counterfeit Currencies	-	Journals Internet resources	Identify authentic and counterfeit Currency	-	Microscope
	1.4 Explain Forensic Currency Examination1.5 Explain the	Explain Forensic Currency examination Explain the importance		Identify the methods of forensic currency examination	Identify the methods of forensic currency	Light source Black-light
	importance of forensic currency examination	of forensic currency			examination	

1.6 Explain roles of Currency Forensics in criminal investigations: • Counterfeiting • Money • Money Laundering General Objective 2.0: Understand Currency Security Features 5-7 2.1 Define security features of currency of currency 2.2 Explain security features in various currencies: • Watermarks • Watermarks • Holograms Explain roles of Currency Forensics in criminal investigations: • Counterfeiting • Money Laundering Text books Projector Computer Marker Marker Whiteboard Currencies Watermarks Faster Journals Guide students to: Sample Currencies Sample Currencies Sample counterfeit various currencies Magnifying Jens
criminal investigations: investigations: • Counterfeiting • Money • Money Laundering General Objective 2.0: Understand Currency Security Features 5-7 2.1 Define security features of currency of currency 2.2 Explain security features in various currencies: • Watermarks • Watermarks • Watermarks • Watermarks • Watermarks • Counterfeiting • Money • Counterfeiting • Money • Counterfeiting • Money • Money • Money • Counterfeiting • Money • Counterfeiting • Marker Projector Computer
investigations: Counterfeiting Money Money Laundering Laundering General Objective 2.0: Understand Currency Security Features 5-7 2.1 Define security features of currency of currency 2.2 Explain security features in various currencies: Watermarks Watermarks Watermarks Counterfeiting Money Laundering Text books Projector Computer Marker Marker Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Watermarks
 Counterfeiting Money Laundering Money Laundering General Objective 2.0: Understand Currency Security Features 2.1 Define security features of currency 2.2 Explain security features features in various currencies: ourrencies: Watermarks Watermarks Watermarks Money Laundering Text books Projector Computer Marker Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Watermarks Watermarks Watermarks Watermarks Watermarks
• Money Laundering Laundering General Objective 2.0: Understand Currency Security Features 5-7 2.1 Define security features of currency of currency 2.2 Explain security features in various currencies:
General Objective 2.0: Understand Currency Security Features 5-7 2.1 Define security features of currency 5-7 2.2 Explain security Explain security features Explain security features Computer Marker Marker Features in various in various currencies: Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Whiteboard Currencies Watermarks Watermarks Watermarks Fraser Journals
5-7 2.1 Define security features of currency of currency 2.2 Explain security features features in various currencies: • Watermarks • Watermarks • Watermarks - Watermarks Explain security features of currency of currency of currencies
of currency of currency of currency of currency of currency of currency Projector Computer Marker Marker features in various features in various currencies: • Watermarks • Watermarks Ourrencies Frojector Computer Marker Marker Marker Marker Marker Miteboard Currencies Currencies Sample counterfeit currencies Magnifying
• Holograms • Holograms 2.3 Explain differences between authentic and counterfeit currency • Holograms Explain differences between authentic authentic authentic counterfeit currency • Holograms Internet between authentic and counterfeit currency Identify differences between authentic and counterfeit currency Explain differences between authentic and counterfeit currency Black-light
2.4 Explain techniques for visual inspection and detection of counterfeit currency Explain techniques for visual inspection and detection of counterfeit currency Explain techniques for visual inspection and detection of counterfeit currency General Objective 3.0: Understand Counterfeit Detection Techniques
General Objective 3.0. Underständ Odnierien Delection Techniques
8-10 3.1 Explain methods for Text books Guide students to: Sample

		T	L	T		
	UV light	• UV light	Whiteboard	Counterfeit detection		counterfeit
	 Infrared analysis 	 Infrared analysis 	Eraser		detection	Magnifying
		TD 1 1 1 100	Journals	T1 .: C : . C : .		lens
	3.2 Explain the differences	Explain the differences	Internet	Identify counterfeit	Identify	ichs
	between methods in 3.1	between methods in 3.1	resources	currencies	counterfeit ·	Microscope
	2.2 E1	E1		V	currencies	T . 1 .
	3.3 Explain the tools and	Explain the tools and				Light source
	technologies used for Counterfeit detection	technologies used for Counterfeit detection				Black-light
C 1			L			210011 118110
	Objective 4.0: Understand C		_	''		la 1
11-12	4.1 Define Physical	Explain Physical	Text books		Guide students to:	_
	Examination of	Examination of currency	Projector		T1 .'C 1 ' 1	Currencies
	currency		Computer	Identify physical	Identify physical	Sample
	425 1: 51 : 1	T 1 ' D1 ' 1	Marker	examination methods		counterfeit
	4.2 Explain Physical	Explain Physical	Whiteboard	of currency	methods of	Counterren
	examination methods of		Eraser		currency	Magnifying
	currency:	currency:	Journals	T.1	T.1	lens
	• Weight	Weight	Internet	Identify chemical	Identify chemical	
	• Texture	• Texture	resources	analysis of currency materials	analysis of	Microscope
	• Size	• Size		materials	currency materials	Light source
					materiais	Light source
	4.3 Explain chemical	Explain Chemical		Identify digital	Idantify diaital	Black-light
		analysis of currency		Identify digital imaging procedure	Identify digital imaging	
	materials	materials		imaging procedure	procedure	
					procedure	
	4.4 Explain Digital imaging	Explain Digital imaging		Visit aurranav	Visit aurranau	
				Visit currency	Visit currency Forensics	
	4.5 Explain Digital Imaging	Explain Digital imaging		Forensics Laboratory		
		and analysis for detailed			Laboratory	
	examination	examination				

3-15	5.1 Explain ethical	Explain ethical	Text books		
	considerations in	considerations in	Projector		
	document examination	document examination	Computer		
			Marker		
	5.2 Explain Laws and	Explain Laws and	Whiteboard		
	regulations related to	regulations related to	Eraser		
	currency and	currency and	Journals	•	
	counterfeiting (e.g.,	counterfeiting (e.g.,	Internet		
	Nigerian Money	Nigerian Money	resources		
	Regulation)	Regulation)			
	5.3 Explain the legal	Explain the legal			
		implications of currency	(()		
	examination	examination			
	5.4 Explain Case studies of	Explain Case studies of			
	currency-related crimes	currency-related crimes	6		
	5.5 Explain Professional	Explain Profession),		
	organizations and	organizations and			
	certifications	certifications			
	5.6 Explain Importance of	Explain Importance of			
	continuing education	continuing education and			
	and training	training			
ALU	ATION: C.A:	10%			
	EXAMINATION: 6	50%			
			104		

PROGRAMME: NATIONAL DIPLOMA FORENS			
Course Title: Legal Framework in Forensics	Course Code: FRT 222	Contact Hours: 2	
	Credit Unit: 2	Theoretical:	
Year: II Semester: II	Pre-requisite:	Practical: 0	
COAT TILL	.1.1 1.1 (1.1 (1.1 (1.1 (1.1 (1.1 (1.1		

GOAL: This course is designed to provide students with knowledge of legal framework in forensies

- 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

PROG	RAMME: NATIONAL DIPI	LOMA FOI	RENSIC TECH	HNOLOGY			C	
Course	Title: Legal Framework in Fo	orensics	Course Code	: FRT 222		Contac	et Hours: 2	
			Credit Unit:	2		Theore	tical: 2	
Year:	II Semester: II		Pre-requisite:			Practic		
COUR	SE SPECIFICATION: THE	ORETICAL	AND PRACT	ICAL				
GOAL	: This course is designed to pro	ovide studer	nts with knowle	dge of legal fra	mework in	orensics		
	al Objective 1.0: Understand					X		
THEO	RETICAL CONTENT				PRACTIC	AL CON	ΓENT	
Week	Specific Learning Outcome	Teacher's Activities		Resources	Specific L Outcome	earning	Teacher's Activities	Resources
1-4	1.1 Explain Nigerian Legal System	Explain Nig System Explain Nig	gerian Legal	Textbooks Marker Whiteboard				
	1.2 Explain Nigerian Criminal Justice System		istice System	Internet resources Nigerian Constitution				
	1.3 Explain Nigerian criminal justice system in relation to forensic evidence	-	gerian criminal am invelation evidence	Laws of the Federation				
	1.4 Explain Evidence (Amended) Act, 2023	Explain Ev (Amended)						
	1.5 Explain the principles of "Need to Know".	Explain the "Need to K	principles of now".					

					$\overline{}$	<u> </u>
	• Evidence Act, 2011	• Evidence Act, 2011				
	1.6 Explain Data Protection Regulation (2019)	Explain Data Protection Regulation (2019)			3700	
	1.7 Explain Computer Security Act (2010)	Explain Computer Security Act (2010)		CAL		
	1.8 Explain Nigeria Police Act 2020	Explain Nigeria Police Act 2020		M_{r}		
	1.9 Explain Cybercrime (Prohibition, Prevention, etc.) Act, 2015	Explain Cybercrime (Prohibition, Prevention, etc.) Act, 2015	1			
	1.10 Explain Terrorism (Prevention) Act 2011	Explain Terrorism (Prevention) Act 2011	K			
Gener	al Objective 2.0: Understand the	he legal provision for the co	ollection of fore	nsic 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			

	T		L			
	2.3 Explain the appropriate	Explain the appropriate	Laws of the			
	forensic tools for evidence	forensic tools for evidence	Federation		CV	
	collection	collection			. 10'	
Jenei	ral Objective 3.0: Understand t	he legality of Chain of Cust	ody		1 0	1
8-10	3.1 Define Chain of Custody	Explain Chain of Custody	Slides		Guide students to:	Sample
	as it relates to criminal	as it relates to criminal	Lecture notes	X		chain of
	justice system	justice system	Marker	Mock court sessions	Mock court	custody
			different		sessions	forms
	3.2 Explain chain of custody	Explain chain of custody	colors	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	form	form	Board	Fill chain of custody	Fill chain of	Forensic
			Internet	form	custody form	handling
	3.3 Explain the Filling of	Explain the Filling of	resources			equipmen
	chain of custody form	chain of custody form	Nigerian	Handle forensic	Handle forensic	
				evidence	evidence	
	3.4 Explain meaning of the	Explain meaning of	Laws of the		L	Forensic
	expression "Proper	expression "Proper	Federation	Dispose forensic	Dispose forensic	tool box
	Custody"	Custody"	Sample forms	evidence legally	evidence legally	
	3.5 Explain the legality of	Explain the legality of		Comply with the	Comply with the	
	'Need to Hold" principle	'Need to Hold" principle		regulatory rules in	regulatory rules	
	in forensic	in forensic		disposing forensic	in disposing	
	In Tolensie	in forensie		evidence	forensic evidence	
	3.6 Explain Handling of	Explain Handling of				
	forensic evidence	forensic evidence				
		00				
	3.7 Explain the legally	Explain the legally				
	acceptable ways of	acceptable ways of				
	forensics evidence	forensics evidence				
	disposal	disposal				
	disposai	uisposai				

					•
	 3.8 Explain the regulatory compliance of forensics evidence disposal. Record keeping Quality control Chemical destruction Secure electronic deletion 	Explain the regulatory compliance of forensics evidence disposal. • Record keeping • Quality control • Chemical destruction • Secure electronic deletion			
Genera	al Objective 4.0: Understand the	ne legal provision for the an	alysis of forens	sic evidence	
	4.1 Explain the use of appropriate forensic tools for evidence analysis	Explain the use of appropriate forensic tools	Markers Whiteboard Internet resources		
	4.2 Explain Evidence Act 2011 relating to the analysis of evidence	Explain Evidence Act 2011 relating to the analysis of evidence	Nigerian Constitution Laws of the		
	presentation of evidence in court	Explain procedure of presentation of evidence in court	Federation		
	al Objective 5.0: Understand P		umentary Evide	ence	
13-14	5.1 Explain Proof of contents of document	Explain Proof of contents of document	Slides Lecture notes Marker		
	5.2 Explain Primary evidence	Explain Primary evidence	different colors		
	5.3 Explain types of Primary Evidence	Explain types of Primary Evidence	Board Internet resources		

 Original document Witness statement DNA samples Fingerprints 	 Original document Witness statement DNA samples Fingerprints 	Nigerian Constitution Laws of the Federation	EDICK!
5.4 Explain Secondary evidence	Explain Secondary evidence		
 5.5 Explain Types of Secondary evidence Photocopies of original document Second hand information Expert analysis Statistical analysis 	Explain Types of Secondary evidence • Photocopies of original document • Second hand information • Expert analysis • Statistical analysis	RIFCHILL	
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		

<u>ener</u>	6.1 Explain admissibility of evidence Digital evidence Biological evidence Ballistic evidence etc.	Explain admissibility of evidence	Slides Lecture notes Marker different colors	ensic evidence	
	 6.2 Explain Confidentiality in Forensic investigation 6.3 Explain Integrity of evidence in Forensic investigation 6.4 Explain Availability of evidence in Forensic 	etc. Explain Confidentiality in Forensic investigation Explain Integrity of evidence in Forensic investigation Explain Availability of evidence in Forensic	resources Nigerian Constitution Laws of the Federation Boundary Tapes, Marker of different		
	investigation 6.5 Explain Computer Security Act (2010) in handling forensic evidence	investigation Explain Computer Security Act (2010) in handling forensic evidence	colors, Board, Constitution, Laws of the Federation		

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 stude	ents with the knowledge of economic offe	onses.
GENERAL OBJECTIVE: At the end of this		
1.0 Understand Asset Misappropriation		N
2.0 Understand bribery and corruption	. (- X -
.0 Understand bribery and corruption .0 Understand customer fraud		O '
	<i>(1111111111111</i>	>
4.0 Understand fraud in procurement 5.0 Understand cybercrime		
5.0 Understand cybercriffie 5.0 Understand money laundering	\(\bar{\chi}\).	
7.0 Understand money faundering		
o Chacistana tax naud	\\\	
	KO.	

PROG	RAM	ME: NATIO	NAL DIPL	OMA FORENSIC TEC	CHNOLOGY				
Course	Title	e: Economic C	Offences	Course Code: FR	Т 223		Conta	ct Hourst 2	
				Credit Unit: 2			Theo	retical: 2	
Year:	II	Semester:	II	Pre-requisite:			Pract		
COUR	SE S	PECIFICATI	ION: THE	ORETICAL AND PRAC	TICAL				
GOAL	: This	s course is des	igned to equ	ip students with the know	wledge of econo	omic offenses			
GENE	RAL	OBJECTIVE	E 1.0: Unde	rstand Asset Misappropr	iation				
THEO	RET	ICAL CONTE	ENT			PRACTICAL (CONTE	NT	
Week		cific Learning		Teacher's	Resources	Specific Learni	ng	Teacher's	Resources
		come		Activities		Outcome		Activities	
1.0	1.1	Define asset		Explain asset	Text books				
1-3	1 2	Explain classi	ification of	Explain classification of	Projector f Computer				
		assets	incauon oi	asset	Markers				
		assets		usset	Whiteboard				
	1.3	Explain Asset	t	Explain Asset	Eraser				
		misappropriat	tion	misappropriation	Journal				
					Internet				
		Explain differ		Explain Different states	resources				
		of misappropri the public offi		of misappropriation in					
		the public off	ice	the public office					
	1.5	Explain differ	ent states	Explain different states					
		of misappropi		of misappropriations in					
		the private sec	A	the private sectors					
		1		1					
	1.6	Explain the	conomic	Explain the economic					
		impact of asse	et	impact of asset					

	misappropriation to the government and private sectors	misappropriation to the government and private sectors			ICA	
	1.7 Explain measures to address misappropriation in private and public sectors	Explain measures to address misappropriation in private and public sectors				
Gene	ral Objective 2.0: Understand	bribery and corruption				
4-6	2.1Define bribe	Explain bribe	Text books Projector	16,		
	2.2 Define corruption	Explain corruption	Computer Markers			
	2.3 Explain types of bribery and corruption in public office	Explain types of bribery and corruption in public office	Whiteboard/ Eraser Journal Internet			
	2.4 Explain types of bribery and corruption in private office	Explain types of bribery and corruption in private office	resources			
	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				
	2.6 Explain procedures of investigating corruption and applicable laws in Nigeria	Explain procedures of investigating corruption and applicable laws in Nigeria				

	2.7 Explain the role of	Explain the role of			
	regulatory agencies in	regulatory agencies in			
	curbing bribery and	curbing bribery and			
	corruption	corruption			
	2.8 Explain ICPC Act 2000	Explain ICPC Act 2000		20	
	2.9 Explain EFFC Act 2004	Explain EFFC Act 2004			
Gene	ral Objective 3.0: Understand cu		1		1
7-8	3.1 Define a customer	Explain a customer	Text books		
		r ·· ·· ·· ·· ·· ··	Projector		
	3.2 Explain the classification	Explain the classification			
	of customers	of customers	Markers 🔨		
			Whiteboard		
	3.3 Define fraud	Explain fraud	Eraser		
			Journal		
	3.4 Define customer fraud	Explain customer fraud	Internet		
			resources		
	3.5 Explain prevalent cases of	Explain prevalent cases			
	Customer fraud	of Customer fraud	/		
	3.6 Explain investigation	Explain investigation			
	process and applicable	process and applicable			
	laws in Customer fraud	laws in Customer fraud			
		OK.			
	3.7 Explain measures taken by	Explain measures taken			
	the Government to address	by the Government to			
	Customer fraud	address Customer fraud			
	3.8 Explain the role of	Explain the role of			
	regulatory agencies in	regulatory agencies in			
	curbing Customer fraud	curbing Customer fraud			

Conor	ral Objective 4.0: Understand fr	and in procurement	
9-10	4.1 Define procurement	Define procurement	Text books
9-10	4.1 Define procurement	Define procurement	
	4.2 Explain the difference	Explain the difference	Projector Computer
		_ -	Marker
	between public and	between public and	Whiteboard
	private procurements	private procurements	
	4.2 Evaloin types of	Evaloin types of	Eraser Journal
	4.3 Explain types of	Explain types of procurements	
	procurements	procurements	Pamphlets
	1 1 Define and expensed from d	Define and evene	Internet
	4.4 Define procurement fraud	Define procurement fraud	resources
	4.5 Explain provalent asses of	Explain prevalent cases	
	4.5 Explain prevalent cases of	1 -	
	procurement fraud	of procurement fraud Explain how	
	4.6 Explain how procurement	*	
	fraud is carried out	procurement fraud is	
	radd is carried out	carried out	
	4.7 Explain investigation	Explain investigation	
	process and applicable	process and applicable	
	laws in procurement fraud	laws in procurement	
	naws in procurement fraud	fraud	
Conor	al Objective 5.0: Understand cy		
	5.1 Define cybercrime	Explain cybercrime	Text books
11-12	5.1 Define cybereffine	Explaine vocietime	Projector
	5.2 Explain types of cyber	Explain types of cyber	Computer
	crimes	crimes	Markers
	Crimes		Whiteboard
	5.3 Explain how cybercrime	Explain how cybercrime	
	offences impact on	offences impact on	Journal
	Government activities	Government activities	Internet
L	C S V CI III I CI I COS	Co. Jimmont activities	

(
	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		JJCAI.	
	5.5 Explain the role of	Explain the role of				
	regulatory agencies in	regulatory agencies in				
	fighting cybercrime	fighting cybercrime		10h		
	5.6 Explain methods of	Explain methods of		W,		
	preventing cybercrime	preventing cybercrime				
Gener	al Objective 6.0: Understand m	oney laundering				
13-14	6.1 Define money laundering	Explain money	Text books			
		laundering	Projector			
	6.2 Explain types of money	Explain types of money	Computer			
	launderings	launderings	Markers Whiteboard			
	6.3 Explain the role of	Explain the role of	Eraser Journal			
	international agencies in	international agencies in	Internet			
	investigating money	investigating money	resources			
	laundering	laundering	Sample			
			documents			
	6.4 Explain the process of	Explain the process of				
	investigating money	investigating money				
	launderings	aunderings				
	6.5 Explain the impact of	Explain the impact of				
	money laundering to	money laundering to				

	Developing Countries	Developing Countries		
Gene	ral Objective 7.0: Understand ta			
15	7.1Define Tax and Taxation	Explain Tax and	Text books	
		Taxation	Projector	
	7.2 Define tax fraud	Explain tax fraud	Computer Lecture notes	
	7.3 Explain types of tax fraud	Explain types of tax fraud	Slides Markers Whiteboard	
	7.4 Explain manner of	Explain manner of	Eraser	
	commissioning of tax fraud	_	Journal Internet	
	7.5 Explain tax evasion	Explain tax evasion	resources	
	7.6 Explain the role of international agencies in fighting tax fraud	Explain the role of international agencies in fighting tax fraud		
		٠, ٢		
	EXAMINATION: 70			
	WALION		118	

PROGRAMME: NATIONAL DIPLOMA FORENSIC TECHNOLOGY							
Course Title: Forensic Handwriting	Course Code: FRT 224	Contact Hours: 3					
	Credit Unit: 3	Theoretical:					
Year: II Semester: II	Pre-requisite:	Practical: 2					
COAL This case is desired to see its state	4	and the all Andreas and the Atlanta					

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 Handwrit	cing Course Code	e: FRT 224		Contact Hours: 3		
		Credit Unit:	3		Theoretical: 1		
Year:	II Semester: II	Pre-requisit			Practical: 2		
COUR	SE SPECIFICATION:	THEORETICAL AND P	RACTICAL				
GOAL	: This course is designed t	to provide students with t	he knowledg	ge and skills of orensic ha	ndwriting examination		
Genera	al Objective 1.0: Understa	and the Fundamentals of	Forensic Han	ndwriting			
THEC	RETICAL CONTENT			PRACTICAL CONTER	NT T		
Week	Specific Learning Outcome	Teacher's Activities	Resources	Specific Learning Outcome	Teacher's Activities	Resources	
	1.1 Define Forensic handwriting 1.2 Explain the importance and historical context of forensic handwriting 1.3 Explain the fundamental features of forensic handwriting	Explain Forensic handwriting Explain the importance	Whiteboard	Identify styles of handwriting in forensic investigation Identify internal consistency of handwriting	Guide students to: Identify styles of handwriting in forensic investigation Identify internal consistency of handwriting	Magnifying lens Cardboard paper Assorted Pens Measuring ruler	
Gener	1.4 Explain forged handwriting ral Objective 2.0: Know t	Explain forged handwriting the tools and technology	in Handwritii	ng Analysis			
	2.1 Explain the usage of		Text books Projector Computer	Identify altered	Guide students to: Identify altered	Microscopes Imaging	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Lecture	documents and	documents and	software	

	2.2 Explain Digital	Explain Digital	notes	markings	markings	
	Handwriting	Handwriting Analysis	Slides			Stylus-based
	Analysis		Markers	Cite different case	Cite different case	devices
		Explain case studies in	Whiteboard	studies	studies	
	2.3 Explain case studies	handwriting analysis	Eraser			Stylus-and
	in handwriting		Journal	Demonstrate	Demonstrate	fingertip-
	analysis	Explain technological	Internet	handwriting analysis	handwriting analysis	based
		applications in	resources	with the aid of	with the aid of	devices,
	2.4 Explain technological	handwriting analysis		Microscopes and	Microscopes and	
	applications in			imaging software	imaging software	3D motion-
	handwriting analysis					based
~		- 1 11 27	<u> </u>			devices
	al Objective 3.0: Know th			mination	,	
9-11	3.1 Explain Legal	Explain Legal	Text books			
	Framework of	Framework of	Projector			
	forensic handwriting	forensic	Computer			
		handwriting	Lecture	•		
			notes			
	3.2 Explain	Explain	Slides			
	Admissibility of	-	Marker			
		Admissibility	Whiteboard Eraser			
	evidence	of evidence	Journal			
	 Standards of 	 Standards of 	Internet			
	Proof	Proof	resources			
		VO,	resources			
	3.3 Explain Ethical	Explain Ethical				
	Considerations of :	Considerations of:				
	Chain of Custody	Chain of				
	 Expert Testimony 	Custody				
		• Expert				

		Testimony			(1)	
	3.4 Explain the technical	Explain the technical				
	aspects of	aspects of Handwriting				
	Handwriting analysis	analysis				
Genera	al Objective 4.0: Understa	nd Report Writing and I	nterpretation	in forensic investigation		
13-14	4.1 Explain Report	Explain Report	Text books		Guide students to:	Sample
	Writing	Writing	Projector			report
			Computer	Analyze quantitative \	Analyze quantitative	
	4.2 Explain the purpose	Explain the purpose of	Lecture	and qualitative data	and qualitative data	
	of Report Writing	Report Writing	notes	10,		
			Slides		Write a Report in	
	4.3 Explain structure of	Explain structure of	Marker	conformity with the	conformity with the	
	Reports	Reports	Whiteboard	rules guiding Structure	rules guiding Structure	
			Eraser	of Reports	of Reports	
	4.4 Explain	Explain Interpretation o	Journal			
		Reports	Internet	Interpret Reports in	Interpret Reports in	
	Reports	Understanding	resources	conformity with the	conformity with the	
	 Understanding 	Data			rules guiding	
	Data	• Contextual	Y	Interpretation of Reports	Interpretation of Reports	
	Contextual Analysis	Analysis		Carryout decision	Carryout decision	
	I -	 Decision Making 		making processes using	making processes using	
	 Decision Making 				report findings in	
					Forensic technology	

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

PROGRAMME: NATIONAL DIPLOMA		
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:

- 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

	RAMME: NATIONAL DIPLO	1			anda ad III can	
Course	Title: Forensic Accounting	Course Code: 1	Course Code: FRT 225		Contact Hours 3	
		Credit Unit: 3	3	7	Theoretical: 2	
Year:	II Semester: II	Pre-requisite:		I	Practical: 1	
COURS	E SPECIFICATION: THEOR	ETICAL AND PRACTI	CAL			
GOAL:	This course is designed to equip	students with the knowle	edge and skill	ls of forensic account	ing to investigate fina	ancial crimes
General	Objective 1.0:Understand the co	oncept of financial accou	nting		·	
THEOR	ATICAL CONTENT			PRACTICAL CONT	ΓENT	
Week	Specific Learning	Teacher's	Resources	Specific Learning	Teacher's	Resources
	Outcome	Activities		Outcome	Activities	
1-2	1.1 Define financial	Explain financial	Textbooks		Guide students to:	Calculator
	accounting	accounting	Projector			
			Computer	Prepare a	Prepare a	Computer
	1.2 Explain general	Explain general	Lecture	hypothetical	hypothetical	
	accounting concepts and	accounting concepts	notes	financial statements	financial statements	_
	conventions	and conventions	Slides			financial
	1.2 E1-1-1 d1-1-1-1-1-1-1-1	Empleio dendele en	Markers			statements/
	1.3 Explain double entry	Explain double entry concept	Whiteboard Eraser			reports
	concept	concept	Internet			Accounting
	1.4 Explain accounting	Explain accounting	resources			reporting
	reporting standards	reporting standards	Software			standards
	Toporting standards	reporting standards	Bottware			Starrage
	1.5 Explain financial	Explain financial				
	statements	statements				
		0				
	1.6 Explain the importance of	Explain the importance				
	accounting in forensic	of accounting in				
	investigation	forensic investigation				

Conoral	Objective 2.0: Understand Inter	nol Audit and raview	
General 3			Tout hooks
3	2.1 Define Audit	Explain Audit	Text books
	2.2 E1-i i41 4i4 4	E1-::	Projector
	2.2 Explain internal audit and		Computer
	review	and review	Markers
			Board
	2.3 Explain the scope of	Explain the scope of	Eraser
	internal Audit	internal Audit	Internet
		L	resources
	2.4 Explain the functions of	Explain the functions	Software
	internal Auditor	of internal Auditor	
	2.5 Explain the merits and	Explain the merits and	
	demerits of outsourcing of	_	
	internal audit function	of internal audit	
		function	
	Objective 3.0: Understand Audi		
4	3.1 Explain management		Text books
	responsibilities for:	responsibilities for	Projector
	 Quality control 	 Quality control 	Computer
	 Integrity and 	 Integrity and 	Lecture
	Reliability	Rehability	notes/ slides
	Internal control	 Internal control 	Marker
	of the financial reporting	of the financial	Whiteboard
	process	reporting process.	Eraser
			Internet
	3.2 Explain the role internal	Explain the role	resources
	auditor plays in	internal auditor plays in	Softwares
	preventing internal fraud	preventing internal	
	3.3 Explain the main	fraud	
	responsibilities of an		
	external Auditor		
	CAterial Attained		

		Explain the main			
		responsibilities of an			
		external Auditor			
enera	l Objective 4.0: Understand Finan			l	
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		X
	4.4 Explain the types of financial crime	Explain the types of financial crime	resources Software	Mr.	
	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			
Genera	l Objective 5.0: Understand Frau	d 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		
	5.4 Explain Fraud Jisk	Explain Fraud risk	resources Software		
			126		

	mitigation	mitigation					100	
	5.5 Explain:	Explain:						
	 Fraud risk analysis 	 Fraud risk 						
	 Fraud risk reporting 	analysis						
	 Fraud risk escalation 	 Fraud risk 						
		reporting						
		 Fraud risk 						
		escalation						
	5.6 Explain Incidence and	Explain Incidence and			く(し)			
	response management	response management						
	plan	plan			4.			
General	Objective 6.0: Understand the	principles of forensic acc	ounting 🦰	K)				
	6.1 Define Forensic	Explain Forensic	Text books	プ		Guid	e students to:	Calculator
8-10	Accounting	Accounting	Projector					
			Computer		duct using case	l l	luct using case	Computer
	6.2 Define fraud examination	_		study		study		
		examination	notes/ slides	•	Forensic	•	Forensic	Sample
			Marker		Accounting		Accounting	financial
	6.3 Explain the difference		Board	•	Fraud	•	Fraud	statements/
	between Forensic	between Forensic	Eraser		examination		examination	reports
	Accounting and fraud	Accounting and fraud	Internet					Commis assess
	examination	examination	resources					Sample cases
			Software					
	6.4 Explain the role and	Explain the role and						
	1	responsibilities of fraud						
	Examiners	Examiners						
	6.5 Explain the role and	Explain the role and						
	responsibilities of	responsibilities of						
	Forensic Accountant	-						
		Forensic Accountant						

	6.6 Explain professional standards governing Forensic accountant/fraud examiner	Explain professional standards governing Forensic accountant/fraud examiner			OlCVI	
General	Objective 7.0: Understand Fore	ensic Accounting Investig	ation Engage	ment	V	
11-12	7.1 Explain Forensic Accounting Investigation	Explain Forensic Accounting Investigation	Text books Projector Computer Lecture	Identify Forensic Accounting	Guide students to: Identify Forensic Accounting	Sample programme template
	7.2 Explain Forensic Accounting Investigation methodology	Explain Forensic Accounting Investigation methodology	notes Slides Marker Whiteboard	Investigation methods Design an investigation	Investigation methods Design an investigation	Sample team template Accounting software
	7.3 Explain the design of forensic accounting investigation programme7.4 Explain Assembling of forensic accounting	forensic accounting investigation programme Explain Assembling of forensic accounting	resources Softwares	programme Assemble an investigation team	programme Assemble an investigation team	
	analysis	Explain Adaptive process analysis Explain the fraud theory approach				

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

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

FORENSIC TECHNOLOGY PRACTICAL MANUAL

Introduction To Crime Scene Management	1. Identify physical, biological, digital sample and evidence
FRT 112	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.
Crime Scene Management (CSM)	Demonstrate how to Set up a crime scene:
FRT 121	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	1. Identify the race, gender, age using human skeleton
2 30	
FRT 122	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	1. Identify the types of Cybercrime
FRT 123	Hacking
	 Phishing
	Digital Identity theft
	• DDoS etc
	2. Identify Digital evidence from various sources:
	Hard drives
	• Flash drives
	Networks
	_
	Mobile devices
	Data banks
	3. Simulate a crime scene and carryout investigations using digital
	tools
Introduction to Fingerprints	Carryout fingerprint identification
FRT 124	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

analysis
6. Carryout chemical tests in fingerprint analysis
7. Take fingerprint
8. Take inked fingerprint
9. Take fingerprints using ten-print cards and ink pad
10. Use cleaning agents after taking fingerprint
Alcohol
Water and Soap
Paper towels
11. Demonstrate lifting prints using dusting techniques
12. Identify types of latent fingerprint powders
13. Break into groups:
Lay fingerprints on surfaces.
Apply the specialized powder on the surface
Lift the latent prints with the tape
• Fransfer to the fingerprint paper.
Analyze the results
14. Conclude which powders work best on different surfaces
15. Use ninhydrin solution to develop fingerprint from a porous surface
6. Immerse porous surface into ninhydrin solution and dry without
touching surface
17. Apply iron solution to develop the invisible latent prints
18. Preserve fingerprints
19. Conduct analysis using:
Patterns of fingerprint

• Ridge Characteristics

	20. Compare fingerprints		
Forensic Biology	1. Identify types of samples		
FRT 125	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		
	handling of biological samples 6. Identify equipment used for analysis 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	1. Conduct:		
FRT 126	 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	Identify bones of human skeleton		
FRT 211	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		
Q ₁	and laterality		
	5. Identify fractures on human bones		
Forensic Pathology	1. Visit hospitals/Morgues and observe post mortem examination		
FRT 212	2. Identify the common post-mortem changes after death		
	3. Identify common substances tested for post-mortem toxicology		
	4. Identify types of assaults		

	Interpret assault patterns and correlate them with potential scenarios		
	6. Report Assault findings		
	7. Visit hospitals/Morgues and observe post morten 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:		
	Bio-chemical		
	Trace elements		
	14. Utilize selective migration to generate chromatograms of :		
	Bio-chemical		
E D W 4	Organic compounds		
Forensic Ballistics	Vist Law Enforcement Training institutes		
FRT 213	2. Identify types of Firearm		
	3. Identify ammunition components		
	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		
Document Examination			

FRT 214 1. Identify types of documents 2. Distinguish between known and unknown documents 3. Examine documents using: • 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 handwiting analysis 7. Identify tools for handwiting analysis 7. Identify techniques for malyzing 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. 2. Authenticate Digital Signature 13. Store documents: • Cloud • Local 14. Dispose documents legally Instrumentation and Investigation 1. Identify instruments used in investigation techniques 2. Identify the types of forensic investigation techniques					
3. Examine documents using: • 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 paper and their composition 10. Demonstrate techniques for the identification of alterations and forgery 11. Verify the encryption in digital document. 2. Authenticate Digital Signature 13. Store documents: • Cloud • Local 14. Dispose documents legally Instrumentation Technique FRT 215 1. Identify instruments used in investigation techniques 2. Identify the types of forensic investigation techniques	FRT 214	Identify types of documents			
 Microscopes Magnifying lens Imager Software Hardware Emerging Technology Analyze printed documents for alterations Identify tools for hardwriting analysis Identify techniques for analyzing handwriting Identify types of paper and their characteristics Identify types of inks and their composition Demonstrate techniques for the identification of alterations and forgery Verify the encryption in digital document. Authenticate Digital Signature Store documents: Cloud Local Dispose documents legally Instrumentation and investigation Identify instruments used in investigation techniques Identify instruments used in investigation techniques Identify instruments used in investigation techniques		2. Distinguish between known and unknown documents			
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 Imager Software Hardware Emerging Technology Analyze hand written documents for alterations Analyze printed documents for alterations Identify tools for handwriting analysis Identify techniques for analyzing handwriting Identify types of paper and their characteristics Identify types of inks and their composition Demonstrate techniques for the identification of alterations and forgery Verfy the encryption in digital document. Anthenticate Digital Signature Store documents: Cloud Local Instrumentation and Investigation Identify instruments used in investigation techniques Identify the types of forensic investigation techniques 		• Microscopes			
Software Hardware Emerging Technology Analyze hand written documents for alterations Analyze printed documents for alterations Identify tools for handwriting analysis Identify techniques for analyzing handwriting Identify types of paper and their characteristics Identify types of paper and their characteristics Identify types of inks and their composition Demonstrate techniques for the identification of alterations and forgery Verify the encryption in digital document. Authenticate Digital Signature Store documents: Cloud Local Local Identify instruments used in investigation techniques Identify the types of forensic investigation techniques		Magnifying lens			
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• 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. 2. Authenticate Digital Signature 13. Store documents: • Cloud • Local 14. Dispose documents legally Instrumentation and threstigation 1. Identify instruments used in investigation techniques 2. Identify the types of forensic investigation techniques		• Software			
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 forgers 11. Verify the encryption in digital document. 2. Authenticate Digital Signature 13. Store documents: • Cloud • Local 14. Dispose documents legally Instrumentation Technique FRT 215 1. Identify instruments used in investigation techniques 2. Identify the types of forensic investigation techniques		Hardware			
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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: Cloud Local 14. Dispose documents legally Instrumentation and investigation Technique FRT 215 1. Identify instruments used in investigation techniques 2. Identify the types of forensic investigation techniques					
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12. Authenticate Digital Signature 13. Store documents: • Cloud • Local 14. Dispose documents legally Instrumentation and Investigation Technique FRT 215 1. Identify instruments used in investigation techniques 2. Identify the types of forensic investigation techniques					
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Technique FRT 215 2. Identify the types of forensic investigation techniques					
Technique FRT 215 2. Identify the types of forensic investigation techniques	Instrumentation and Investig	gation 1. Identify instruments used in investigation techniques			
3. Show video clips demonstrating methods in forensic		3. Show video clips demonstrating methods in forensic			

	investigation	
	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	
Document Examination II	1. Identify types of currency and their security features	
FRT 221	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	
	 Identify techniques for visual inspection and detection of counterfeit currency 	
	7. Identify tools and technologies used for Counterfeit detection	
	8. Identify counterfeit currencies	
	Mentify physical examination methods of currency	
	10. Identify chemical analysis of currency materials	
	11. Identify digital imaging procedure	
	12. Visit currency forensics laboratory	
Legal Framework in Forensics	1. Mock court sessions	
FRT 222	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	
Forensic Handwriting	1. Identify styles of handwriting in forensic investigation	

FRT 224	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 technolog	
Forensic Accounting	1. Prepare a hypothetical financial statements	
FRT 225	2. Conduct using case study:	
	Forensic Accounting	
	Fraud examination	
	3. Identity Forensic Accounting Investigation methods	
	4. Design an investigation programme	
	Assemble an investigation team	
	6. Carryout accounting evidence collection	
	7. Demonstrate effective interview techniques	
	8. Preserve accounting evidence and documents	
0 \	9. Analyse accounting evidence	
V	10. Report accounting investigation	
MAL		
WAIL	137	

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			
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)			

		1 (Medium size) Assorted Assorted 20 10 60 10 pkts
25		4 (3.5.1)
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	1
30	Fingerprint ink 5pkt	5 pkts	N.
31	Fingerprint Paper assorted	Assorted	
32	Images of Automated Fingerprint Identification System (AFIS)	1/2	7
	machine		
33	Lifting tapes assorted	Assorted	
34	Laboratory manual 60	60	
35	Soap assorted		
36	Paper towels assorted	Assorted	
37	Cardboard assorted	Assorted	
	Reagents	0.511	
1	Ethanol	25litres	
2	Formaldehyde	25litres	
3	Sodium chloride	500gm	
4	Water Distiller		
5	Distilled/DI Water	500	
6	Crystal ninhydrin	500gm	
7	Acetone	5litres	
8	Iodine solution	1litre	
1	Data/Software	T	
2	Anti virus/-malware software, Packet Sniffers software		
	Packet Snitters dottware		

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3	Penetration Testing Tool software Log Analysis Tools 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
	ONRO
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