

NATIONAL DIPLOMA (ND) PROGRAMME

IN

PHOTOGRAPHY

CURRICULUM AND COURSE SPECIFICATION

JUNE 2013

PLOT 'B' BIDA ROAD, P.M.B. 2239 KADUNA.

FOREWORD

Nigeria must strive to improve productivity throughout all sectors of the economy if she is to compete favourably in an era of rapid economic and technological change. This requires not only capital investment, but also a workforce that is knowledgeable and has the flexibility to acquire new skills for new jobs as the structures of the economy and occupations change. This flexibility and productivity of workforce is critically dependent on availability of skilled workers especially technicians and artisans. The level of competence of a country's skilled workforce determines the quality and efficiency of product development, production, and maintenance, as well as the efficiency of supervision and training of workers with lesser skills. Such lower level skill finds application in the modern technology sector, in agriculture, and in small and medium enterprises of the informal sector, both rural and urban.

Consequently, the development of sound basis in technical and vocational education (TVE) is central to the nation's desire of becoming industrialized and self-reliant. However, present realities in Nigeria indicate that it will take more than a mere refocusing of technical education in its present format to make it more relevant and effective. It has already been established that for Nigeria to advance technologically there is the need to revive the curriculum at all levels of the education sector – TVE inclusive. This is because studies have revealed the widening gap between programmes offered in technical colleges and polytechnics and the actual openings available in the employment market. In most key sectors of the economy, manpower shortages persist and the country remains over-dependent on the skills of expatriates. Regular curriculum review followed by appropriate staff development and the expansion of the knowledge base for information and communication technology are therefore vital ingredients in reversing this unwholesome situation.

A major concern that faces vocational education is the fact that the curricula for Technical Colleges were developed around 1985 and have not undergone any major review since then. Those for the Polytechnic sector are not different. There is therefore a general consensus on the need for their updating and revision to meet the current and future needs of Nigeria. In addition to the traditional functional skills, there is need for emphasis to be given to the new generic competencies such as entrpreneurship and Information and Communication Technology (ICT).

Pursuant to the need to address the major challenges outlined above, a Project Document and Plan of Action in "Support for Revitalising Technical and Vocational Education in Nigeria – Phase I" were signed by UNESCO and the Federal Government of

Nigeria on 15th December, 2000. The main objectives of this Project amongst others include review of existing curricula and development of new ones, training of TVE staff and the introduction of ICT education in polytechnics and technical colleges.

This set of revised curricula for polytechnics and technical colleges was produced as the first major activity of this strategic collaboration. The Federal Ministry of Education is indebted to UNESCO for supporting not only this project but also many others in the Federal Ministry of Education. It is our hope that the implementation of these curricula will enhance appropriate skills acquisition and thus increase the pace of the nation's technological development.

Prof. Ruqayyatu Ahmed Rufa'iHONOURABLE MINISTER OF EDUCATION

GENERAL INFORMATION

NATIONAL DIPLOMA (ND) IN PHOTOGRAPHY

1.0 PHILOSOPHY OF THE PHOTOGRAPHY PROGRAMME

The Photography Programme is designed to reflect a <u>FUNCTIONAL</u> philosophy of education. While seeking to achieve academic excellence and promote the furtherance of knowledge, the Photography programme also seeks to aid "... the acquisition of appropriate skills, abilities and competences, both mental and physical as equipment for the individual to live in and contribute to the development of his society.."

The programme is therefore committed to the production of qualified and competent technicians who will be able to face the challenges concomitant with the aspiration of the country to be technologically developed and the Technicians to be self-reliant after graduation.

2.0 GOALS AND OBJECTIVES OF THE PROGRAMME

The programme aims at producing photographers for the society, industries, organizations and commercial concerns. The diplomate should be able to:

- -Assist effectively in running photographic practice;
- -Analyse and solve simple problems related to photography;
- Maintain, select and operate both analog and digital tools and equipment used in the profession;
- Carry out photographic studio installation and maintenance;
- Apply management principles in organising supervisory groups and in the arrangement of sequence of activities.
- Display basic entrepreneur skills.
- Apply adequate Information Technology (IT) skills.

3.0 MINIMUM ENTRY REQUIREMENTS

Candidates for admission into the programme should have a minimum of:

- (i) Senior Secondary School Certificate (SSSC) with at least pass in English Language and credit passes in five subjects in at most two sittings which must include, Mathematics, Physics, Chemistry, and two other subjects from
- Fine art
- -English language
- -Agricultural science
- Further mathematics
- Economics
- Statistics
- Technical drawing,
- (ii) GCE 'O' Level or its equivalent (Teachers Grade II or West African School Certificate) with at least a pass in English Language and credit passes in five relevant subjects as specified in (i) above.

- (iii) National Technical Certificate (NTC) with five credit passes in mathematics, integrated physical science, English Language and in the art and design trade areas.
- (iv) Pass at NBTE recognized Pre-National Diploma entry requirement in English Language and five credits in the relevant subjects listed in (i) above.

4.0 DURATION

The duration of the programme is a minimm of two academic sessions consisting of four semesters of 18 weeks each and a maximum of four academic sessions consisting of eight semesters.

5.0 CURRICULUM

- **5.1** The curriculum of ND programme consists of four main components. These are:
- i. General studies/education
- ii. Foundation courses
- iii. Professional courses
- iv. Supervised Industrial Work Experience Scheme (SIWES)
- **5.2** The General Education component shall include courses in:
- i. Art and Humanities English Language, Communication, History.
- ii. Social Studies Citizenship Education, Political Science, Geography, Entrepreneurship, Philosophy and Sociology are compulsory.
- iii. Physical and Health Education One semester credit only.
- **5.3** The General Education component shall account for not more than 15% of the total contact hours for the programme.
- **5.4** Foundation courses include courses in Economics, Mathematics, Pure Sciences, Technical Drawing, etc. The number of hours for the Programme may account for about 10-15% of the total contact hours.
- **5.5**. Professional courses are core courses of the programme which give the student the theory and professional skills he needs to practice his field of calling at the technician/technologist level. These may account for between 60-70% of the contact hours.
- **5.6**. Student Industrial Work Experience Scheme (SIWES) shall be taken during the long vacation following the end of the second semester of the first year. See details of SIWES at section 11.0
- **5.7**. Personal Logbook: The students to maintain a personal Logbook to record all the daily and weekly summary of all the practical activities for all the semesters.

6.0 CURRICULUM STRUCTURE

The structure of the National Diploma programme consists of four semesters of classroom, laboratory and workshop activities in the college, and a semester (3-4 months) of student Industrial Work Experience Scheme (SIWES). Each semester shall be of 18 weeks duration made up as follows:

- a. 15 contact weeks of teaching, i.e. recitation, practical exercise, quizzes, test, etc, and
- b. 3 weeks for examinations and registration. SIWES shall take place at the end of the second semester of the first year.

7.0 ACCREDITATION

The Diploma programme shall be accredited by the National Board for Technical Education before the diplomates can be awarded the National Diploma certificates. Details about the process of accrediting a programme for the award of the National Diploma are available from the Executive Secretary, National Board for Technical Education, Plot "B", Bida Road, P.M.B. 2239, Kaduna, Nigeria.

8.0 AWARD OF NATIONAL DIPLOMA

Conditions for the award of National Diploma include the following:

- a. Satisfactory performance in all prescribed course work which may include class work, tests, quizzes, workshop practice, laboratory work which should amount to a minimum of between 72 and 80 semester credit units.
- b. Supervised industrial work experience for four months.
- c. Satisfactory performance at all semester examinations.
- d. Satisfactory completion of final year project work. Normally, continuous assessment contributes 30% while semester examinations are weighted 70% to make a total of 100%. The industrial training is rated on the basis of pass or fail.

National Diploma should be awarded in four classes:

- (i) Distinction CGPA of 3.50 and above
- (ii) Upper Credit CGPA of 3.0 3.49
- (iii) Lower Credit CGPA of 2.50 2.99
- (iv) Pass CGPA of 2.00 2.49.

9.0 GUIDANCE NOTES FOR TEACHERS

- **9.1** 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 wish to transfer the units already completed in an institution similar standard from which he/she is transferring.
- **9.2** In designing the units, the principle of the modular system by product has been adopted, thus making each of the professional modules, when completed provides the student with technician operative skills, which can be used for employment purposes, self employment and otherwise.
- **9.3** 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 behavioural 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. There is a slight departure in the presentation of the performance based curriculum which requires the conditions under which the performance are 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 he 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 acceptance level of performance.

Departmental submission on the final curriculum may be vetted by the Academic Board of the institution. Our 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 Polytechnic system.

9.4 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.

10.0 LOGBOOK

A personal Log-book to be kept by the students shall contain all the 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 and endorsed by the lecturers concerned at the end of every week.

11.0 GUIDELINES ON SIWES PROGRAMMES

For the smooth operation of the SIWES, the following guidelines shall apply:

- **11.1** Responsibility for placement of students.
- a. Institutions offering the National Diploma programme shall arrange to place the students in industry. By April 30 of each year, six copies of the master-list showing where each student has been placed shall be submitted to the Executive Secretary, National Board Technical Education, which 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:
- (a) A task inventory of what the students should be expected to experience during the period of attachment. It may be wise to adopt the one already approved for each field.
- (b) The industry-based supervisor of the students during the period. It should be noted that the final grading of the students during the period of attachment should be weighted more on the evaluation by his industry-based supervisor.
- **11.2** Evaluation of students during SIWES. In the evaluation of the student, cognizance should be taken of the following items:
- 1. Punctuality;
- 2. Attendance;
- 3. General Attitude to work;
- 4. Respect for Authority;
- 5. Interest in the field/technical area;
- 6. Technical competence of the student as a potential technician in his field.

- **11.3** 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 polytechnics is adopted.
- **11.4** The Institution-Based Supervisor: The institution-based supervisor should initial the log-book during each visit. This will enable him to check are being met and to assist students having any problems regarding the specific assignments given to them by their industry-based supervisor.
- **11.5** 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:
 - 1) there is another visit weeks after the first visit; and
 - 2) a final visit in the last month of the attachment.
- **11.6** 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.
- 11.7. 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 the 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 his 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 own expense.

12.0 FINAL YEAR PROJECT

Final year students in this programme are expected to carry out a project work. This could be on individual basis or group work. The project should, as much as possible incorporates basic element of design, drawing and complete fabrication of a marketable item or something that can be put to use. Project reports should be well presented and should be properly supervised.

The departments should make their own arrangement of schedules for project work

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CURRICULUM TABLE NATIONAL DIPLOMA IN PHOTOGRAPHY

ND1 FIRST SEMESTER

COURSE	COURSE TITLE	LECTURE	TUTORIAL	PRACTICALS/	CREDIT	PRE-REQUISITE
CODE				LABORATORY	UNIT	
GNS 101	USEOF ENGLISH	2	-	-	2	SSCE/GCE 'O' LEVEL
COM 101	INTRODUCTION TO COMPUTER	2	-	1	3	
GNS 111	CITIZENSHIP EDUCATION	2	-	-	2	
PHG 111	INTRODUCTION TO PHOTOGRAPHY	1	-	1	2	
PHG 112	THE CAMERA	1	-	2	3	
PHG 113	BASIC DESIGN I	1	-	2	3	
PHG 114	INTRO TO PHOTOGRAPHIC PHYSICS	1	-	1	2	
PHG 115	INTRO. TOPHOTOGRAPHIC CHEMISTRY	1	-	-	1	
LIB 111	USE OF LIBRARY	1	-	-	1	
	TOTAL	12	-	7	19	

ND 1 SECOND SEMESTER

COURSE	COURSE TITLE	LECTURE	TUTORIAL	PRACTICALS/ LABORATORY	CREDIT UNIT	PRE-REQUISITE
GNS 102	COMMUNICATION IN ENGLISH I	2	-	-	2	SSCE/GCE 'O' LEVEL
EED 126	INTRODUCTION TO ENTREPRENEURSHIP	2	-	-	2	-
PHG 121	INTRO. TO DIGITAL PHOTOGRAPHY	1	-	1	2	PHG 111
PHG 122	BASIC DESIGN II	1	-	2	3	PHG 113
PHG 123	FILM CHARACTERISTICS	1	-	1	2	-
PHG 124	PHOTOSHOP I	1	-	1	2	-
PHG 125	EXPOSURE IN PHOTOGRAPHY	1	-	2	3	PHG 112
PHG 126	CAMERA HANDLING & COMPOSITION	1	-	1	2	PHG 112
PHG 127	PHOTOGRAPHIC PHYSICS	1	-	1	2	PHG 114
PHG 128	PHOTOGRAPHIC CHEMISTRY	1	-	1	2	PHG 115
SWS 101	SIWES	-	-	2	2	-

TOTAL	12	-	12	24	
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ND II THIRD SEMESTER

COURSE	COURSE TITLE	LECTURE	TUTORIAL	PRACTICALS/	CREDIT	PRE-REQUISITE
CODE				LABORATORY	UNIT	
GNS 201	USE OF ENGLISH	2	-	-	2	
GNS 211	INTRODUCTION TO SOCIOLOGY	2	-	-	2	
GNS 221	INTRODUCTION TO PHE	1	-	-	1	
PHG 211	STUDIO LIGHTING	1	-	1	2	
PHG 212	DARKROOM PROCEDURE	1	-	2	3	PHG 123; 125
PHG 213	PHOTOSHOP II	1	-	1	2	PHG 124
GNS 228	RESEARCH METHODS	2	-	-	2	PHG 113
EED 216	ENTREPRENEURSHIP	2	-	-	2	EED 126
	TOTAL	12	-	4	16	

ND II FOURTH SEMESTER

COURSE CODE	COURSE TITLE	LECTURE	TUTORIAL	PRACTICALS/ LABORATORY	CREDIT UNIT	PRE-REQUISITE
GNS 202	COMMUNICATION IN ENGLISH II	2	-	-	2	GNS 102
GNS 222	ECONOMICS	2	-	-	2	
PHG 221	PHOTOSHOP III	1	-	2	3	
PHG 222	LAWS & ETHICS RELATING TO PHOTOGRAPHY	1	-	-	1	
PHG 223	PRINT FINISHING & PRESENTATION	1	-	1	2	
PHG 224	PHOTOGRAPHY BUSINESS	1	-	-	1	
PHG 225	PROJECT	-	-	4	4	
	TOTAL	8	-	7	15	

NATIONAL DIPLOMA

IN

PHOTOGRAPHY

ND I

FIRST SEMESTER

SEMESTER: - First

COURSE TITLE: - INTRODUCTION TO PHOTOGRAPHY

DURATION - Lecture 1 hr

UNIT: - 1

CODE NO: - PHG 111

GOAL: - This course is designed to introduce the student to photography

GENERAL OBJECTIVES:

On completion of this course, the student should be able to:

- 1.0 Understand Photography
- 2.0 Understand the importance and use of the photograph
- 3.0 Development of photography
- 4.0 Know the early photographers and their tools

PROG	RAMME: NATIONAL DIP	LOMA IN PHOTOGR	APHY						
	SE: INTRODUCTION TO PH			ODE: PHG 111	CONTACT HOU	RS: 1			
	GOAL: This course is designed to introduce the student to photography								
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	PRACTICAL CO	NTENT				
	General Objectives: 1.0 Un								
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources			
	Outcomes			Objective	activities				
	1.1 Define Photography	Define the term	Books,						
		Photography.	Journals,						
	1.2 Explain the importance		Magazine,						
	of light Photography		Internet.						
	1.3 State the qualities of a								
	good photograph								
	1.4 State the different areas								
	o photography. News,								
	Documentary, Sports,								
	Portraiture, Aerial								
	Photography, Micro								
	Photography, Aquatic								
	Photography, Glamour								
	Photography etc.								
	General Objectives: 2.0 Uno	derstand the important	ce and use of I	Photography		I			
	2.1 Explain Photography	Discuss social media	Multimedia						
	and social media.	in relation to	equipment,						
		photographs.	Books,						

		Tours als		
		Journals,		
2.2 Explain differences	Differentiate	Magazines.		
between Still	between still			
Photographs and	photography and			
motion Pictures.	motion pictures.			
3.0 General Objectives: Kn	ow the History of Pho	tography		
3.1 Explain the	Identify the	Photographs		
development of	contributors in the	, Books.		
photography from 1526 -	development of			
1900.	photography.			
3.2 Explain the changed emphasis in Photography from the First World War to 1945.	Discuss the state of photography during this period.			
3.3 Explain the development of Photography in Nigeria.				

SEMESTER: - First

COURSE TITLE: - The Camera

DURATION - Lecture 1 hr Practical: 2hrs

UNIT: - 3

CODE NO: - PHG 112

GOAL: - This course is designed to acquaint the student with the knowledge of cameras.

GENERAL OBJECTIVES:

On completion of this course, the student should be able to:

- 1.0 Understand the evolution of the camera;
- 2.0 Know types of camera and their functions
- 3.0 Know the safety procedures and maintenance of camera
- 4.0 Know how to construct a pinhole camera
- 5.0 Understand the techniques of taking pictures with various cameras.

PROG	PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY								
	SE: INTRODUCTION TO I				CONTACT HOUR	S: 3			
	GOAL: This course is designed to acquaint the student with the knowledge of the camera								
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	PRACTICAL CO	NTENT				
	General Objectives: 1.0 Und	derstand the evolution	of the camera						
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources			
	Outcomes			Objective	activities				
	1.1 Define Photography	Define Photography.	Markerboard,						
			Books,						
		Discuss the uses of	Journals,						
	1.2 Explain what is a	camera	Magazine,						
	camera		Internet.						
		Discuss the							
		evolution of the							
	1.3 Explain the evolution of	camera.							
	the camera from the								
	camera obscura to								
	digital camera.								
	General Objectives: 2.0 Kno	ow the types of camera	s and their fun	ctions					
	2.1 List different types of	Discuss different	Multimedia						
	cameras.	types of camera.	equipment,						
			Books,						
	2.2 Identify the parts and	Discuss the various	Camera,						
	functions of an analogue	parts and functions	Journals,						
	still camera.	of	Magazines.						
		i.analogue							
	2.3 Identify the parts and	ii.digital cameras							
	functions of a digital								

camera.					
2.4 Enumerate camera accessories.	Discuss camera accessories		Identify different camera accessories	Demonstrate the use of camera accessories.	Tripods, flash, lens hood, filters, light meter, lenses, cameras etc.
3.0 General Objectives: Kn	ow the safety procedul	res and mainte	enance of a camera		
3.1 State the maintenance procedure of a camera.	Discuss how to take care of a camera.	Photographs Books.			
3.2 State the safety procedure in camera handling.					
General Objectives: 4.0 Kno			a		
4.1 List the materials used in constructing a pin hole camera.	Explain the materials used in the construction of a pin hole camera.	Strawboard, cardboard, black tape, pin or needle,			
4.2 State the function of each material in 4.1 above.	Explain the function of each material.	aperture plate			
4.3 Explain the procedures of constructing a pin hole camera.	Describe the process of constructing a pin hole camera.	Strawboard, cardboard, black tape, pin or needle, aperture plate	Construct a pin hole camera	Demonstrate how to construct a pin hole camera. Use it to take pictures.	Strawboard, cardboard, black tape, pin or needle, aperture plate, bromide

					paper, processing chemicals.
5.0 General Objectives: Und	lerstand the technique	s of taking pic	tures with various can	neras	
5.1Define the following terms: aperture, shutter, shutter speed, exposure etc.5.2 Explain the methods of controlling exposure using aperture and shutter speed.	Explain the various terms. Relate aperture to shutter speed in picture taking.	Analogue Camera Analogue Camera	Practicalise the use of aperture and shutter speed in taking pictures.	Demonstrate how to use aperture and shutter speed in picture taking.	Analogue Camera
5.3 Describe out-of-focus and in-focus shooting procedures.	Explain out-of-focus and in-focus in picture taking.				
5.4 Define depth of field in relation to lens openings of a camera.	Explain depth of field.				
5.5 Describe the role of parallax in shooting pictures.	Explain parallax in picture taking.				

SEMESTER: - First

COURSE TITLE: - Basic Design I

DURATION - Lecture 1hr Practicals 2hrs

CREDIT UNIT: - 3

CODE NO: - PHG 113

GOAL: - The course is designed to acquaint the students with the elements of design

GENERAL OBJECTIVES:

On completion of this module, the students should be able to:

- 1. Understand the meaning of design
- 2. Know the elements of design
- 3. Know how to utilize the elements of design
- 4. Understand perspective and distinguish different perspectives
- 5. Understand colour

PROGR	RAMME: NATIONAL DIPI	LOMA IN PHOTOGR	RAPHY			
	E: BASIC DESIGN I		COURSE CO		ONTACT HOURS:	3
GOAL:	: The course is designed to a	cquaint the students v	vith the elemen			
COURS		THEORETICAL CO	NTENT	PRACTICAL CON	TENT	
	General Objectives:1.0: Und				_	
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources
	1.1 Explain the meaning of Design	Define Design Explain with pictures of finished works	Picture Textbooks Whiteboards Markers Cleaners Projector			
	General Objective 2.0: Know	the Elements of Design	l			
	2.1 Explain elements of Design	Discuss the elements of design	Pictures, textbooks, white board, markers, cleaners, projector	Illustrate the Elements of Design	Demonstrate the use of elements of design	Marker Cleaner Painting Textile designs Architectural
	2.2 Define the following: * Line * Form * Value * Light * Colour * Shape * Texture Pattern * Space * Time * Motion		Whiteboards Markers Cleaners Projectors Textbooks			drawing etc.
	2.3 Explain line and its	Discuss the		Draw lines,	Ask student to	Paper,

	attributes: - Contour and outline - Direction - Movement etc	attributes of contours and outline direction etc.		contours, direction, movement	make free hand sketches of lines, contours	pencils, eraser, drawing boards, clippers
2.4	Explain shape	Discuss various shapes and their formation.	Paper, Eraser, Pencil, Projectors	Demonstrate the use of various shapes with diagrams	Ask the student to make compositions with shapes	
2.5	Explain form	Explain form as in cubes, sphere, pyramids, cylinders etc. Relate form with shapes: cubes, sphere, pyramid, cylinders	Paper, Eraser, Pencil, Projectors	Draw cubes, spheres, cylinders	Ask the students to draw cubes, sphere, cylinders etc.	Paper, pencils, eraser, drawing boards, clippers
2.6	Explain value in design, tonal gradation light, shade and shadows	Discuss various forms in design and tonal gradation	Pictures, textbooks, projectors	Demonstrate values and tones with drawing	Ask the students to draw still life objects showing light, values, shadows and	Paper, pencils, eraser, drawing boards,
2.7	Explain techniques of shading hatching, cross hatching, blurring	Discuss techniques of shading, hatching, cross hatching, blurring etc.	Paper, Eraser, Pencil, Projectors		tones	clippers, Ink, etc.
2.8	Explain different forms of texture	Discuss different forms of texture	Textured materials; fabric mirrors, tree barks etc	Draw different textures and patterns	Ask the student to draw/paint patterns and texture on shapes and forms.	Paper, pencils, erasers, drawing boards, clippers, Ink,

2.9 Explain pattern	Discuss different	Pictures,			paints etc.				
	forms of pattern	projector							
General Objectives: 3.0 Know how to utilize the elements of design									
3.1 Explain how the elements of design are used in picture composition	Discuss how the elements of design are used in picture composition	Camera, paper, pencil etc.	Make a freehand drawing of objects using elements of design Combine elements of design to form a	Guide student in making freehand drawing of objects	Drawing paper, colour, drawing boards, pastels, etc.				
			design						
General Objectives: 4.0	Understand Perspect				1				
4.1 Define perspective 4.2 Explain different types of perspectives - Linear perspective - Foreshortening - Atmospheric perspective - Isometric perspective - Vanishing point	Explain vanishing point, horizon Discuss types of perspectives	Textbooks Maker board Projector	Illustrate perspective.	Ask student to illustrate perspective	Paper, pencils, erasers, drawing boards, Ink, paint etc.				
General Objectives: 5.0 U 5.1 Define colour	Understand colour Discuss colour.	Pictures Projector Whiteboard Colour brushes	Construct the colour wheel	Ask the student to construct the colour wheel.	Paper Pencil Colour Brushes				

5.2 Differentiate between colour as light and colour as pigment	Discuss the following terms: - RGB - CYMK	Projector Photographs	Design a colour charts showing the classification of colour	Ask the student to design a colour chart	Colour Paper Brushes Palettes
5.3 Explain the properties of colour: Hue Colour value Intensity (Chroma/saturation)	Discuss the properties of colour: Hue, value, intensity (Chroma, Saturation)				Talettes
5.4 Explain primary Colours5.5 Explain secondary Colours5.6 Explain tertiary	Classify colour into Primary, Secondary colour, Tertiary colours	Colour wheel Chart Projector Whiteboard Makers Pigment Brushes			
Colours 5.7 Explain colour harmony. - Monochrome - Polychrome - Analogous	Complementary colour, Split complementary, Double split complementary colours, colour harmony etc.				
5.8 Explain colour Scheme	Discuss different colour schemes				

SEMESTER: - First

COURSE TITLE: - INTRODUCTION TO PHOTOGRAPHIC PHYSICS

DURATION - Lecture 1 hr Practical 1hr

CREDIT UNIT: - 2

CODE NO: - PHG

GOAL: - This course is designed to provide the student with adequate knowledge of light, image

formation and their relevance in photography.

GENERAL OBJECTIVES:

On completion of this course, the student will be able to:

- 1.0 Understand the basic principle of optics
- 2.0 Understand the interaction of light with matter
- 3.0 Understand light waves
- 4.0 Know the basic Principle of image formation

PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY									
COUR	SE: INTRODUCTION TO PH	IOTOGRAPHIC PHYS	ICS C	OURSE CODE: PHG	CONTACT	HOURS: 3			
GOAL	GOAL: This course is designed to provide students with adequate knowledge of light, image formation and their relevance in								
photography									
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	PRACTICAL CONT	TENT				
	General Objective: 1.0 Unde				,				
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources			
	Outcomes			Objective	activities				
	1.1 Define Optics	Explain Optics	Chalk						
			Board,						
	1.2 Explain the branches of	Discuss the branches	Marker						
	optics such as: physical	of optics	Chalk,						
	optics, Geometrical								
	optics, Quantum optics		Books,						
	etc.		Journals						
	General Objective: 2.0 Und	lerstand the interaction	n of light wi	th matter.					
	2.3 Define Light	Define Light	Chalk						
			Board/						
	2.4 Explain reflection of	Explain the various							
	light by: Plain mirror,	terms.							
	Matt Surface.								
	25 84 41 1 6								
	2.5 State the laws of	Demonstrate	Torch ligh	t					
	reflection.	reflection of light on	Mirrors						
		the surface.							
	2.6 Explain parallax.								
	2.7 Explain absorption and								

transmission of light.			
2.8 Define refraction of light			
2.9 Explain the effects of refraction such as deviation, dispersion, displacement etc.			
2.10 Define index of refraction.			
2.11 Explain Critical angle.			
2.12 Relate refraction index to Critical angle.			
2.13 Draw a diagram showing refraction of light by a glass prism.			
2.14 Explain the dispersion of light by a glass prism.			
2.15 Distinguish between deviation and dispersion.			

3.1 Identify waves such as	Explain terms in 3.1	Chalk		
sound waves, light waves		Board/Mark		
etc		er Board.		
		Marker		
		Cleaner/Dus		
		ter. Book		
3.2 Define Electromagnetic	Illustrate the	Journals		
Spectrum	electromagnetic			
	Chart.	Marker		
		Board		
3.3 Explain Light Waves	Display chart for			
	electromagnetic			
3.4 Define terms such as	spectrum.			
wavelengths, frequency,				
Amplitude etc.				
250 1 0 1				
3.5 State the functions and				
Relationship of wave				
lengths in Electromagnetic				
spectrum.				
2.6 Evaloin the Visible	Discuss the visible			
3.6 Explain the Visible				
spectrum.	spectrum.			
3.7 Explain a diagram				
showing the visible				
spectrum.				
spectrum.				

General Objectives: 4.0 Know The Basic Principle of Image Formation					
1.1 Define Image	Explain Image	Chalk			
		Board			
		Marker			
		Board.			
1.2 Explain formation of Image with the pin hole.	Discuss image formation.				
		Cardboard			
		paper,			
1.3 State the Characteristics		Candle			
of a pin hole image.		Books/			
		Journals.			

Assessment: Course work 40% Examination 60%

SEMESTER: - First

COURSE TITLE: - INTRODUCTION TO PHOTOGRAPHIC CHEMISTRY

DURATION - Lecture: 1 hr

UNIT: - 1

CODE NO: - PHG 115

GOAL: - This course is designed to acquaint the student with the effects of chemical reactions on

photographic materials.

GENERAL OBJECTIVES:

On completion of this course, the student should be able to:

- 1.0 Understand basic Photographic chemistry
- 2.0 Know basic organic compounds
- 3.0 Understand Redox reactions
- 4.0 Comprehend simple chemistry of glass

PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY									
COURSE: INTRODUCTION TO PHOTOGRAPHIC COURSE CODE: CONTACT HOURS: 1									
CHEMISTRY									
GOAL: This course is designed to acquaint the students with the effect of chemical reactions on photographic materials.									
COURSE SPECIFICATION: THEORETICAL CONTENT PRACTICAL CONTENT									
***	General Objectives: 1.0 Un								
Week	•	Teacher's Activities	Resource		ific Learning	Teacher's	Resources		
	Outcomes			Obje	ctive	activities			
	1.1 Define Chemistry	Explain the field of							
		chemistry.	Chalk						
			Board,						
	1.2 Explain Photographic	Discuss	Marker						
	Chemistry.	photographic	Board						
		chemistry.							
	1.3 Identify chemical		Books,						
	Symbols relating to		Journals						
	photography			i					
			Chemical	L					
	1.4 Explain metals and non		chart						
	metals								
	mouns								
	1.5 Explain reaction of	D. 1 . 1							
	metals and non metals.	Discuss chemical							
	metals and non metals.	reactions on metals							
		and non metals.							

Gener	al Objectives: 2.0 Kno	w basic Organic Cor	npound		
2.1Def	ine Organic	Define term	Chalk		
compo	ounds		Board		
			Marker		
2.2 Na	me with a few	Explain the	Board		
exa	amples the two major	following:	Duster		
cla	sses of organic	Organic compounds.	Marker		
cor	mpounds i.e.	Aliphatic and	Cleaner		
Ali	iphatic and Aromatic	Aromatic	Books,		
cor	mpounds	compounds.	Journals.		
2.3 Na	me the functional	Explain the			
gro	oups and classes of	functional groups of			
org	ganic compounds	organic compounds.			
	entify the elements in	Discuss halogens.			
	ch class of organic				
	mpounds				
		derstand Redox react			
	efine chemical	Explain chemical	Magnetic		
reactio	n	reactions.	Board		
2 2 E		Diagnas and an	Marker		
	plain redox reactions as of electron gain or	Discuss redox reaction	Books Journals		
	e. (electron transfer).	reaction	Journals		
	(creetion transfer).				
3.3 Ex	plain oxidation in	Discuss oxidation			
	of oxygen, hydrogen,	and reduction			
	ns and changes in	processes.			
oxidati	ion numbers.				
3.4 Ext	plain reduction in				
	of Oxygen, hydrogen,				

electron and changes in reduction numbers. 3.5 Explain oxidizing agent and reducing agent. 3.6 Explain corrosion as a process involving oxidation. 3.7 List the main agent necessary for corrosion (e.g. water, oxygen, acid-alkalis). 3.8 Explain methods to protect metals against corrosion	Discuss corrosion and corrosion agent.			
4.0 General Objectives: C	 Comprehend Simple C	 hemistry Of G	lass	
4.1Explain glass	Discuss the	Chalk		
composition	composition,	Board		
	characteristics and uses of glass.	Marker Board.		
4.2 Explain the	abob of Stubb.	Bourd.		
characteristics of glass				
		Books		
4.3 Mention the uses of glass in photography		Journals.		

Assessment: Continuous Assessment: 40% Examination : 60%

ND I

SECOND SEMESTER

SEMESTER: - Second

COURSE TITLE: - INTRODUCTION TO DIGITAL PHOTOGRAPHY

DURATION - Lecture: 1 hr Practical: 1 hr

CREDIT UNIT: - 2

CODE NO: - PHG 123

GOAL: - This course is designed to acquaint the student with the basic principles of digital photography.

GENERAL OBJECTIVES:

- 5 Understand the basic principles of digital photography
- 6 Know the elements of digital photography
- 7 Understand the concepts and characteristics of digital image
- 8 Know the basic digital photography workflow
- 9 Understand the concept of image processing and manipulation in digital photography

PROGR	RAMME: NATIONAL DIPI	OMA IN PHOTOGRA	APHV				
	SE: INTRODUCTION TO D			COUR	SE CODE: PHG 12	3 CONTA	CT HOURS: 3
	This course is designed to ac						
		THEORETICAL CON			PRACTICAL CON	<u> </u>	
	General Objective: 1.0 Und	lerstand the basic princ	ciple of dig	gital ph	notography		
Week	Specific Learning	Teacher's Activities	Resou	rces	Specific Learning	Teacher's	Resources
	Outcomes				Objective	activities	
	1.1 Define digital	Explain digital	Chalk				
	photography	photography.	Board	,			
			Marke	er			
	1.2 Compare and contrast	Discuss differences an	nd Board				
	digital and analogue	similarities between					
	photography	digital and analogue					
		photography					
			Books	,			
	1.3 Explain how images are	Describe how digital	Journa	als			
	capture in digital	photographic images	Chem	ical			
	photography	are created.	chart				
	General Objective: 2.0 Kn	ow the elements of digi	tal photog	raphy			
	2.1 Discuss the following	Define the terms in	Whiteboa	rd			
	terms	2.1	Markers				
	- Digital image		Books				
	- Digital sensors		Journals				
	(CCD, CMOS) and						
	pixels						
	General Objectives: 3.0 U	nderstanding the conce	epts and C	haract	eristics of Digital ima	age	

3.1 Define digital image 3.2 List the following features of a digital image a. Resolution b. Colour depth c. File formats d. File size	Explain the term on 3.1 Discuss various terms listed in 3.2	Whiteboard Marker Books Journals			
3.3 Explain each features listed in the 3.2 above 3.4 Discuss the differences in each items listed in 3.4 for monitor and web display, and printer output. General Objectives: 4.0 Kr	Explain differences of each listed features when digital image is created for the monitor, web, printing and storage.	hotography w	orkflow.		
4.1 Explain the meaning of digital photography Workflow 4.2 Identify the following stages of digital photography workflow • Capturing • Transfer • Image processing • Outputting/Distribu tion/storing/sharing 4.3 Explain each stage	Discuss each step listed in 4.1 Give assignment on each stage of the workflow	Digital Cameras Scanners Computers (with appropriate image editors) Printers Internet facility DVD/memo ry card etc.	Identify the various hardware and software used in each stage of the workflow Practicalise each stage of the workflow	Illustrate the workflow as listed Display the various hardware and software required in each stage Demonstrate the	Digital Cameras Scanners Computers (with appropriate photo editing software e.g photoscape, photoshop etc) Printers
listed				correct	Internet

in 4.2				application of	facility
				various hardware	DVD/memo
				and software used	ry cards etc.
				in each of the	
				workflow.	
General Objectives: 5.0 U	Inderstanding the cond	ept of image p	rocessing and manipu		tography
5.1 Explain what is meant	Define the term	Digital			
by digital darkroom	digital darkroom	darkroom			
		Scanner			
5.2 Describe the setup and	Discuss a typical	Computers			
workspace of a typical	layout of a digital	(with			
digital darkroom	darkroom	appropriate			
		image			
5.3 Explain digital	Discuss various	editors)			
darkroom operations and	operations and	Printers			
activities	activities common in	Internet			
	a digital darkroom.	facility			
5 4 Daggilla handagan	The and make the	DVD/memo			
5.4 Describe hardware specifications suitable	List and relate the following items to	ry cards etc.			
for digital darkroom	digital darkroom				
operations.	operations:				
operations.	Computer platforms				
	(Macs and Windows				
	OS)				
5.5 Identify software for	Speed Memory,				
digital darkroom	performance for				
operations	digital image				
	processing system				
5.6 Explain in town digital	Monitor regulation				
5.6 Explain in term digital Image/post	Monitor resolution for a digital				
processing.	darkroom system				
processing.	uarkiooni system				
 1		l			

	Image editing		
	software.		

Assessment: Course work 40%

Examination

60%

SEMESTER: - Second

COURSE TITLE: - Basic Design II

CREDIT UNIT: - 2

CONTACT HOURS - Theory: 2 Practical: 3

CODE NO: - PHG 122

GOAL: - This course is designed to acquaint the student with the principle of design.

GENERAL OBJECTIVES:

- 1. Understand the principles of design in two dimensional form
- 2. Understand Three Dimensional design
- 3. Know Design and Technology

PROG	PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY									
COUR	SE: Basic Design II		COUR	RSE CODE: PHG	CONTACT HOURS: 2-0-					
GOAI	GOAL: The course is designed to acquaint the students with the principle of design									
COURSE SPECIFICATION: THEORETICAL CONTENT PRACTICAL CONTENT										
	General Objectives:1.0: U	nderstand the principle	of design in t	wo dimensional desig	n					
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources				
	Outcomes			Outcomes	activities					
	1.1Explain design and	Discuss design as it	Whiteboard,							
	technology	relates to technology	books,							
			journals,							
	1.3 Explain how technology	Discuss how	projector,							
	affects the visual image	technology affects the	graphic							
		visual image	tablet							
	1.4 Explain the principle of		Picture/dra-							
	design in two		wings, pins,							
	dimensional form		board,							
			textbooks,	Study the patterns						
			journals,	and colour in						
			whiteboard,	nature.						
			markers,	Use drawing to						
	1.5 Differentiate between		projector,	examine objects						
	the principles of design		printer.	closely show						
	and the elements of			differences among						
	design		Pictures,	colours, shapes,						
			geometrical	textures and other						
	1.6 Explain the term		forms,	qualities of objects		Pictures,				
	"Balance" in design.		while board	in their artwork.	Guide students to	paper,				

1.7.F. 1.1. H. '.	B: 1.1 ·	and chalk,	Create three	show differences	pencil, and
1.7 Explain Unity.	Discuss balances in planes forms, balance	books, journals,	dimensional forms with paper.	of elements with drawings,	eraser, colour,
	in landscape.	projector	with paper.	painting.	textured
	Discuss three types of	projector		painting.	materials,
1.8 Explain Movement and	balance:			Guide students to	gum, clay
Rhythm	- Symmetrical			create two	etc.
	- Asymmetrical		Show balance	dimensional	
1.9 Explain Emphasis in	- Radial balance		using diagrams	works flower	
design			from books, photo	design etc.	
	D:		books, picture etc.		
	Discuss unity in terms of design, materials,			Guide student to identify balance	
	silhouette, colour.			in plane forms,	
	simodette, colour.			landscape etc.	
	Discuss Movement			T	
1.10 Explain Space	Discuss emphasis in				
	focal point, point of interruption,				Photographs
	repetition, contrasting				, camera,
	the primary element			Guide students to	painting etc.
	with its subordinates,		Demonstrate	create design	
	sudden change in	"	Movement with the	representing	
	direction, size, shape		use of images,	movement	
	etc.		paintings etc.		
			D '1 1 '	Guide students to	
	Discuss Space		Describe emphasis	demonstrate	
	- Positive Space	٠.	using a composition of	emphasis using zoomed images,	
	- Negative		objects	etc.	
	Space				
	Foreground, middle		Show Emphasis		
	ground, background		using zoomed		
	Two dimensional		images		

	Space				
	Three dimensional				
	Space				
	Overlapping objects				Pictures,
	Changing size and				artworks
	placement of related				
	objects				
	Linear perspective				
	Relative hue and	٠.	Show contrast with		
	value		a creative work or		
	Atmospheric		photograph	Guide students to	
	perspective			show contrast	
	D' 1 1		Make a	with a creative	Camera,
	Discuss scale and		composition using	work or	Pictures,
	proportion.	"	the elements and	photograph Student create	paintings.
1.11 Explain Scale and	Disauss proportion in		principles of design		
1.11 Explain Scale and proportion	Discuss proportion in human form			designs with elements and	
proportion	numan 10m			principles of	
	Discuss Contrast.			design	
	Understand Contrast			design	
	with size, contrast				Paper, Ink,
1.12 Explain Contrast	with value, contrast				brushes,
1	with colour, contrast				colour etc.
	with type, using				
	obvious contrasting				
	elements.	۲۲			
	Discuss composition				
	of elements and				
1 12 5 1 :	principle of design.				Pictures,
1.13 Explain composition					paper,
					colour,
Companyal Object 200 TV 1	4				pencils, etc.
General Objective 2.0: Und	erstand Three Dimensio	onal design			

2.2	Define Three dimensional design State the differences between two dimensional and three dimensional design	Discuss three dimensional design Discuss the differences between two dimensional and three dimensional design	Clay, sculptures, projector, marker, white board etc			
2.3	Explain the elements and principles of 3D	Discuss the elements and principles of 3D design – (Planer forms) volume mass space texture, light colour, time. The organizing principles: Containment Proximity, continuity closure, repetition variation, Rhythm balance, scale proportion, emphasis economy, unity with variety.	cc	Create a sculpture with clay, plaster of Paris, etc. Demonstrate the processes of making a three dimensional design i.e sculpture, ceramic ware etc.	Create an artwork in 3D using clay, Students to undertake project to make a 3D work.	Clay, plaster of Paris, etc.
cons	Explain methods of struction in three ensional design	Discuss methods of construction in 3D Additive (modeling, casting, assemblage, armature, gluing) Subtractive (Carving, cutting) Modular.	Clay, wood, gauze wire, metal etc, makers, whiteboard.			cc

General Objectives: 3.0 Un	nderstand Design and To	echnology			
3.1 Discuss technological devices for design: - Computer - Camera - Printers - Etc	Explain the use of technological devices		Demonstrate how to design a prototype of a camera	Guide students to design prototype of a camera	Paper, adhesives, cutters etc.

Assessment: Course work - 40% Exams - 60%

SEMESTER: - Second

COURSE TITLE: - FILM CHARACTERISTICS

DURATION - Lecture 1 hr Practical: 1 hr

UNIT: - 2

CODE NO: - PHG 123

GOAL: - This course is designed to provide the student with adequate knowledge of the characteristics of

photographic films.

GENERAL OBJECTIVES:

- 1.0 Know the history of films;
- 2.0 Know the characteristics of films in terms of suitability of purpose;
- 3.0 Understand film speed for production of good quality prints;
- 4.0 Know the effect of films on lenses and filters;
- 5.0 Know different types of special films.

PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY								
COUR	SE: FILM CHARACTERIS	TICS	COURSE CO	ODE: PHG 123	CONTACT HOURS: 1			
	: This course is designed to p					graphic films.		
COUR	SE SPECIFICATION: General Objectives: 1.0 Kno	THEORETICAL CO	NIENI	PRACTICAL CO	JNIENI			
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources		
	Outcomes			Objective	activities			
	1.1 Explain the	Discuss the terms in	Books,					
	Daguerreotype.	1.1 – 1.3.	Journals,					
	1.2 Explain Calotype.		Internet. Different					
	1.3 Explain photographic emulsions.		types of films: Black and white,					
	1.4 Explain the development of the first roll of film.	Discuss the development of films in 1.4 – 1.6.	coloured, slides, x-ray, reversal films etc.					
	1.5 Explain the contibution of George Eastman to photography.							
	1.6 Explain the development of films from Kodak to X-ray.							
	General Objectives: 2.0 kno	w the characteristics o	f films in terms	of suitability of pu	rpose.	I		
	2.1 Explain the main light sensitive chemical in photographic films.							

	<u> </u>	ı			
2.2 Identify graininess in films.					
2.3 State the advantages and					
disadvantages of grainy films.					
3.0 General Objectives: Unc	 	r production of	good quality prints		
3.1 Define film speed.	Discuss film speed.	production of	Soon quanty prints.		
3.1 Define film speed.	Discuss filli speed.				
3.2 State the ASA, DIN and ISO ratings and how it affects production of good	Explain ASA, DIN and ISO ratings.				
quality prints.					
3.3Identify film types that do not respond to push-pull process.	Explain push-pull process.				
3.4 State the different types sizes of film format and their advantages.					
3.5 State the functions and uses of slow film speed in photography.					
3.6 Differentiate between films suitable for different light situations.					
General Objectives: 4.0 kno	w the effect of films on	lenses and filte	ers.	<u> </u>	<u>I</u>
4.1 Explain the main light					
sensitive chemical in					
photographic films.					

4.2 Identify graininess in films.			
4.3 State the advantages and			
disadvantages of grainy			
films.			

SEMESTER: - Second

COURSE TITLE: - PHOTOSHOP I

DURATION - Lecture: 1 Hr Practical 1Hr

UNIT: - 2

CODE NO: - PHG 124

GOAL: - The course is designed to introduce the student to Photoshop

GENERAL OBJECTIVES:

- 1. Understand the uses of the Photoshop as an image editing software
- 2. Understand basic keyboard shortcuts in Photoshop

	SE: PHOTOSHOP II			CODE: PHG 124	CONTACT HOURS	S: 2
GOAL	: The course is designed to in	troduce the student to	Photoshop	·		
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	PRACTICAL CO	NTENT	
	General Objectives: 1.0 Und	derstand the use of Pho	otoshop as an	image editing softwar	·e	
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources
	Outcomes			Objective	activities	
	1.1 Explain photoshop as an	Discuss the	Textbooks,			Computer
	image editing software	development of	Journals,			system,
		Photoshop	Computer			Internet,
			system,			Projector,
	1.2 Explain the use of	Discuss the uses of	Internet,			Printer,
	Photoshop in digital	Photoshop in image	Projector,			Scanner,
	images	manipulation	Printer,			Memory
			Scanner,			card reader,
	1.3 Open the Photoshop	Discuss various	Memory	Demonstrate how to	Demonstrate how	DVD,
	software	ways of importing	card reader,	open Photoshop.	to open the	Flash drive
		images to Photoshop	DVD,		Photoshop	
			Flash drive		workspace	
	1.4 Explain the Menu bar,	Explain the various				
	File, Edit, Image etc.	ways of opening		Import images into		
		Photoshop		Photoshop is opened	Demonstrate how	
	1.5 Explain the process of				to import images	
	importing images from a				into the	
	device into Photoshop				Photoshop	
					workspace.	
	1.6 Explain Photoshop	Discuss Photoshop				
	workspace	workspace.				

2.1 Explain shortcuts keys	Discuss shortcut	Textbooks,	Apply the palettes to	Demonstrate the	Computer
	keys	Journals,	manipulate images	use of palette to	system,
		Internet		manipulate	Internet,
2.2 Define history Palette:	Describe the use of	Computer		images.	Projector,
	history palette	system,	system,		Printer,
		Internet,			Scanner,
2.3 List basic shortcuts keys	Explain the shortcut	Projector,			Memory
like	keys	Printer,			card reader,
- Open		Scanner,			DVD,
- Undo		Memory			Flash drive
- Save		card reader,			
- Closing a single		DVD,			
images		Flash drive			
- etc					

Assessment: Course work 40%, Examination 60%

SEMESTER: - Second

COURSE TITLE: - EXPOSURE IN PHOTOGRAPHY

DURATION - Lecture: 1 Hr Practical 2Hrs

UNIT: - 3

CODE NO: - PHG 125

GOAL: - This course is designed to provide the student with the knowledge and skills required in the

application of exposure to photography.

GENERAL OBJECTIVES:

- 1. Understand exposure
- 2. Know camera controls
- 3. Understand exposure factors
- 4. Know aperture settings
- 5. Know shutter speed settings
- 6. Know the combinations of aperture and shutter speed settings
- 7. Know exposure techniques

PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY								
	SE: EXPOSURE IN PHOTO			JRSE CODE: 125	CONTACT HOURS: 3			
	: The course is designed to pr					osure.		
COUR	COURSE SPECIFICATION: THEORETICAL CONTENT PRACTICAL CONTENT							
	General Objective: 1.0 Und			T	T	T		
Week	Specific Learning	Teacher's Activities	Learning	Specific Learning	Teacher's	Resources		
	Outcomes		Resources	Objective	activities			
	1.1Define exposure.	Discuss exposure in	Whiteboard					
		photography	marker					
	1.2 Evalsia have svassovas	Discuss how		T1	Chary complex of	D 1		
	1.2 Explain how exposure affects image appearance	exposure affects		Identify correctly	Show samples of	Photographs		
	arrects image appearance	image appearance		exposed	correctly exposed photographs,	under		
		image appearance		photographs, under	under exposed	exposed		
	1.3Explain the terms:	Discuss the terms in		exposed photographs and over exposed	photographs and	and over		
	• correct exposure,	1.3		photographs	over exposed	exposed		
	 under exposure and 			pnotographs	photographs	photographs		
	 over exposure 				photographs			
	General Objectives: 2.0 Kno	ow camera controls						
	2.1 List camera controls	Discuss how the	Books	Identify different	Show different	Cameras		
	(e.g aperture, shutter	controls determine	Cameras	shutter speeds and	shutter speeds and	Calculator		
	speeds)	exposure	Calculator	aperture settings	aperture settings			
	2.2. Explain each camera							
	control listed in 2.1							
	2.3 Explain how each of the							
	controls in 2.1 above affects							
	exposure							
	General Objectives: 3.0 Un	derstand exposure fac	tors	1	I	<u> </u>		

 3.1 List out the factors that affect exposure: Lighting Subject properties Speed rating Unsual imaging conditions (such as light absorption due to lens filters and 	Discuss factors affecting exposure measurement	Camera Lenses Filters Whiteboard Marker Books Journals		
attachments e.t.c.) 3.2 Explain the role of each of the factors listed in 2.0 in exposure measurement				

4.0 General Objectives: Know aperture settings

4.1Explain aperture settings4.2 Explain the relationship between aperture settings and exposure	Discuss aperture settings	Camera Detachable lens (analogue)			Camera Detachable lens (analogue) Projector			
4.3 Explain how diffferent aperture settings affect depth of field			Demonstrate how to set different aperture settings	Guide students on how to set aperture				
6.0 General Objectives: Know shutter speed settings								
5.1 Explain shutter speed5.2 Explain the relationship between shutter speed and	Discuss shutter speed.	Camera Detachable lens (analogue)	Carry out exercises using different shutter speed settings	Demonstrate how to use different shutter speed settings	Camera Detachable lens (analogue)			
exposure								
5.3 Discuss how shutter speeds affect motion								
General Objective: 6.0 Know	w the combinations of	aperture and s	shutter speed settings	on exposure	<u> </u>			
6.1Explain the relationship between aperture settings, shutter speeds and exposure	Discuss how aperture, shutter speeds affect exposure.	White board Marker Cameras						
6.2 Explain how different	Explain the effect of							

combination of aperture and	different aperture		Demonstrate how to	Guide students on
shutter speeds affect depth	and shutter speeds		combine different	the exercise.
of field, sharpness, motion	on exposure		shutter speeds and	
etc.			aperture	
General Objective: 7.0 Know	w the ways of achieving	l g correct expo	*	f exposure measurement
7.1 List various techniques	Discuss various		Carry out the various	Demonstrate the
for getting correct	exposure techniques		techniques listed in	various
exposure:			7.1	techniques listed
enposure.	Explain exposure		7.1	in 7.1
	measurement			III /.1
5.05 C				
7.2Define exposure	Discuss types of			
measurement	camera in-built			
	meters such as:			
7.3 Explain how in-built	• Averaging meter	Cameras		
camera meter works	Center-weighted	with in-built		
camera meter works	meter meter	meters		
7.4 Identify types of	• Spot meter	Handheld		
camera in-built camera	• Multi-segment	meters		
meters	meter			
	Explain Exposure			
	value (EV)			
	compensation scale			
	in cameras			
	Discuss types of			
	hand-held meters			
	such as:			
	• Reflected-light		70 1 1: 1:4	
	meter		Take readings with	
	• Incident- light		handheld meters	Guide students to

7.5 Identify types of handheld meters	meter • Spot meter		take readings with handheld meters	
7.6 Explain how hand-held exposure meter works7.7 Explain the use of hand-	Explain how to covert the light measurement (readings) into an exposure setting			
held meter				
7.8 List the ways of "taking readings' with hand-held meters:				
 General reading 				
• Brightness-range				
reading				
 Grey-card reading 		Use handheld meters with fill-in flash	Guide students on	
• Incident-light reading		with fill-ill flash	the use of handheld meters	
7.9 Explain the use of handheld meter with fill-in flash			with fill-in flash	

Assessment: Course work 40%,

Examination 60%

SEMESTER: - Second

COURSE TITLE: - CAMERA HANDLING AND COMPOSITION

COURSE CODE: - PHG 126

DURATION: - 2HRS Lecture 1hr Practical 1hr

CREDIT UNITS: - 3

GOAL: This course is designed to provide the student with the knowledge and skill required in camera

handling and photographic composition.

GENERAL OBJECTIVES:

- 1. Understand the concept of composition in photograph
- 2. Know the use of various compositional elements in a photograph
- 3. Understand the application of framing
- 4. Understand the concept of depth of field
- 5. Understand view point and camera angle
- 6. Understand the application of the rule of third
- 7. Understand the techniques of camera handling
- 8. Understand camera supports.

PROG	RAMME: NATIONAL DIPI	LOMA IN PHOTOGR	APHY			
	SE: Camera Handling and C			RSE CODE: PHG 126	CONTACT HO	URS: 3
	: The course is designed to p	•	•			
	raphic composition	Tovide the student wit	ii the knowled	ge and skins required	m camera nananng	, and
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	PRACTICAL CONT	TENT	
	General Objectives: 1.0: Un	derstand the concept of	of composition	in photography		
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources
	Outcomes			Outcomes	activities	
	1.1 Explain the meaning of	Explain the concept	Photographs			
	composition	of composition in	Marker			
		photography	board,			
	1.2 Identify the elements of		Cleaner,			
	composition		Marker etc.			
			Books			
	1.2 Discuss the concept of		Journals			
	1.3 Discuss the concept of composition in					
	photography					
	General Objectives: 2.0 Kno	ow the use of various c	 ompositional e	l elements in a photogra	ph	
	2.1 Discuss arrangement of	Discuss the use of	Photographs			
		various elements of	Marker			
	elements such as line,	composition in a	board,			
	shape, space, tone,	photograph	Cleaner,			
	emphasis etc. in a		Marker etc.			
	photograph	Describe how these	Books			
	1 0 1	elements enhance	Journals			
		the visual features,				
		content, meaning				

	and aesthetic quality	7			
	of a photograph				
General Objectives: 3.0	Understand the appli	cation of framing	g		
3.1 Explain framing	Discuss framing	Sample Photographs Camera Projector	Compose pictures with correct framing and compositional techniques	Demonstrate how to compose pictures with correct framing	Sample Photographs ; Camera,
3.2 State framing errors	Discuss framing errors Describe ways to avoid framing errors	S			paper, projector
3.3 Explain the meaning of the terms (head room, nose room, looking room, etc.)	Discuss the terms in 3.3				
3.4 List ways to achieve the right head room in a photograph and looking room					
General Objectives: 4.0 U	nderstand the conce	pt of depth of fie	ld		
4.1 Explain the meaning of depth of field	Discuss foreground and background	Camera, Books, Journals.	Compose pictures with the right depth of field	Guide students to compose pictures with right depth of field	Camera, Books, Journals.
General Objectives: 5.0 U	nderstand Viewpoint	and camera ang	gle		
5.1 Explain viewpoint and camera angle Discuss viewpoint and camera angles.		Camera Books	Describe pictures with compose low and high camera angle	Demonstrate high and low camera angle	Camera, Books
5.2 Explain High and Low					

viewpoint Camera Angles					
General Objectives: 6.0	Understand the applica	tion of the rul	le of third		
6.1 Explain the rule of third	Discuss the rule of third		Compose pictures with correct rule of third	Demonstrate how to compose pictures using the	
6.2 Explain how the rule- of- third enhances visual impact	Describe how the rule-of-third enhances visual impact of a photograph			rule of third.	
6.3 Explain the meaning of					
focal point					
6.4 Explain focal point enhances focus of attention					
· ·	Understand the technic	-	handling	1	T
/.1 Explain camera	Discuss camera handling	Camera			
various techniques of holding a camera	State the various techniques of holding a camera				
- Handholding the camera					
General Objectives: 8.0 U	nderstand Camera Suj	pports			

8.1 Explain the need for	Discuss the need for	Tripod		
camera supports	camera support	Monopods		
8.2 Enumerate various		Camera		
camera supports:	Describe various	Clamps		
	camera supports	etc.		
- Tripods				
- Monopods				
- Clamps etc.				

Assessment: Theory 40 %; Practical 60%

SEMESTER: - Second

COURSE TITLE: - PHOTOGRAPHIC PHYSICS

DURATION - Lecture 1 hr Practical 1hr

UNIT: - 2

CODE NO: - PHG: 127 NDII 3rd Semester

GOAL: - This course is designed to provide the student with knowledge of photographic physics

GENERAL OBJECTIVES:

- 1.0 Understand the principle of image formation in the human eye
- 2.0 Understand refraction of light through lenses
- 3.0 Know the concept of heat as a form of energy
- 4.0 Understand the concept of latent heat
- 5.0 Understand the behavior of vapour

PROG	PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY								
COUR	SE: PHOTOGRAPHIC PH	YSICS		COUR	RSE CODE: PHG 127 CONTACT HOURS: 3				
	: This course is designed to								
COUR	SE SPECIFICATION:	THEORETICAL CO			PRACTICAL CON	TEN	T		
	General Objective: 1.0 Und					_			
Week	Specific Learning	Teacher's Activities	Resour		Specific Learning		acher's	Resources	
	Outcomes				Objective		ivities		
	1.3 Describe the human	Discuss the human	Marker		Draw a labeled		ide the student	Books,	
	eye	eye	Board,		diagram of human	to c	draw the human	Journals,	
			Cleaner	,	eye	eye	•	Paper,	
	1.4 Explain the formation	Discuss formation of	Books,					Pencil,	
	of images by the eye	image by the eye	Journal					Eraser	
		lenses							
	1.5 Explain the defects	Discuss defects that							
	that can affect the eyes	can affect the eye							
	1.6 Explain how those								
	defects can be	Discuss how eye							
	corrected	defects can be							
		corrected							
	General Objective: 2.0 Un				nses.	,			
	2.1 Identify different types	Discuss simple lens,	Marke						
	of lenses	Compound lens,	Board	<i>'</i>					
		wide angle lens,	Cleane	,					
		Long focus lens,	Books	•					
		zoom lens etc, tele	Journa	<i>'</i>					
		photo, fish eye	Charts	,lenses.					
		lenses.							
	2.2 Define linear	Discuss linear							
	magnification	magnification.							

2.3 Derive a relation between focal length and radial of curvature of the lens surface	Guide the Student in 2.3.
2.4 Explain the effect of combining two thin lenses in contact	Discuss the effect of combining two thin enses in contact.
2.5 State the relation for the combined focal length of two lenses in contact	Guide the Student in 2.5.
2.6 Explain the defects of lenses (e.g. chromatic and spherical aberration)	Explain defects of enses.
2.7 Explain how those defects can be corrected	
2.8 Explain image formation by a positive lens.	Discuss formation of mage by a positive ens. w the Concept of heat as a form of energy

cap	Define Heat, heat acity, specific heat acity	Example 3.1	Marker Board. Cleaner, Book Journals.		
hea liqu	Determine the specific t capacity of solid and aid by method of sture.	Guide the student in 3.2			
	State Newton law of ling.				
hea	Determine the specific t capacity of a liquid by thod of cooling.				
	Explain cooling rection in calorimetric.				
Gei	neral Objectives: 4.0				
1.4			Chalk Board Marker Board.		
Gei	neral Objectives: 5.0 Un	derstand the behavi	our of Vapour	1	-
5.1	Define vapour	Discuss vapour Discuss evaporation	Marker board, Cleaner Books, Journal	Guide students to carry out experiment to determine specific	Bunsen Burner Gas cylinder

5.2 Explain evaporation			latent heat of fusion	Glassware Books
5.3 Distinguish between evaporation and boiling	Discuss difference between evaporation and boiling		Guide the student in 4.4	Journal Marker Board cleaner Thermomet er.
5.4 Relate evaporation to Cooling.	Discuss evaporation and vapour			
5.5 Explain saturated and unsaturated vapour				
5.6 Define saturated vapour Pressure				
5.7 Solve simple numerical problems on vapour	Guide students to solve numerical problems on vapour			
5.8 Define sublimation	Discuss sublimation			

Assessment: Course work 40% Examination 60%

SEMESTER: - Second

COURSE TITLE: - PHOTOGRAPHIC CHEMISTRY

DURATION - Lecture: 1 hr Practical 1hr

UNIT: - 2

CODE NO: - PHG 128

GOAL: - This course is designed to introduce the student to photographic chemistry.

GENERAL OBJECTIVES:

- 2 Understand some preparative organic reactions
- 3 Understand Photographic chemistry
- 4 Know the photochemistry of light sensitive materials

PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY							
COURSE: PHOTOGRAPHIC CHEMISTRY			COURSE CODE: 128		CONTACT HOURS: 1		
GOAL: This course is designed to acquaint the students with the effect of chemical reactions on photographic materials.							
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	NTENT PRACTICAL CONTENT			
General Objectives: 1.0 Understand photographic chemistry.							
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources	
	Outcomes			Objective	activities		
		Discuss					
	4.1 Define Chemistry	photographic	Chalk				
		chemistry.	Board,				
			Marker				
	4.2 Explain Photographic	Discuss chemical	Board				
	Chemistry.	reactions on metals					
		and non metals.					
	4.3 Identify chemical						
	Symbols relating to		Books,				
	photography.		Journals				
			Chemical				
	4.4 Explain metals and non		chart				
	metals						
	4.5 Explain reaction of						
	metals and non metals.						
	General Objectives: 2.0 Know basic Organic Compound						
	2.16 Define Organic	Define terms	Chalk				
	compounds	Explain the	Board				
		following:	Marker				
	2.17 Name with a few	Organic compounds.	Board				
	examples the two	Aliphatic and	Duster				
	major classes of	Aromatic	Marker				

organic compounds i.e.	compounds. Explain	Cleaner		
Aliphatic and	the functional groups	Books,		
Aromatic compounds	of organic	Journals.		
F	compounds.			
	Discuss halogens.			
2.18 Name the functional	Discuss harogens.			
groups and classes of				
organic compounds				
2.19 Identify the elements				
in each class of				
organic compounds				
3.0 General Objectives: Unc	l derstand Redox reacti	ions		
3.1 Define chemical	Explain chemical	Magnetic		
reaction	reactions.	Board		
200002012	Discuss redox	Marker		
	reaction	Books		
3.2 Explain redox reactions	Discuss oxidation	Journals		
in terms of electron gain or	and reduction			
loss i.e. (electron transfer).	processes.			
225 1: :1::	Discuss corrosion			
3.3 Explain oxidation in	and corrosion agent.			
terms of oxygen, hydrogen, electrons and changes in				
oxidation numbers.				
omedical name of s.				
3.4 Explain reduction in				
terms of Oxygen, hydrogen,				
electron and changes in				
reduction numbers.				
2.5 Evaloin ovidining accord				
3.5 Explain oxidizing agent and reducing agent.				
and reducing agent.				

3.6 Explain corrosion as a process involving oxidation.3.7 List the main agent necessary for corrosion (e.g. water, oxygen, acid-alkalis).3.8 Explain methods to protect metals against corrosion				
4.0 Comprehend Simple Ch 4.6 Explain glass composition 4.7 Explain the characteristics of glass	Discuss the composition, characteristics and uses of glass.	Chalk Board Marker Board. Books/ Journals.		
4.8 Mention the uses of glass in photography				

Assessment: Continuous Assessment: 40% Examination

: 60%

ND II

THIRD SEMESTER

SEMESTER: - Third

COURSE TITLE: - STUDIO LIGHTING

DURATION - Lecture 1 hr Practical 1hr

UNIT: - 2

CODE NO: - PHG 211 ND

GOAL: - This course is designed to acquaint the student with the technical knowhow of

photographic studio Practice and lighting.

GENERAL OBJECTIVES:

- 1. Use a hand held light meter
- 2. Begin to use some of the creative possibilities that allows light controls
- 3. Control the level of contrast desired by the use of lights, reflectors and light shapers
- 4. Use both "soft" and "hard" lighting
- 5. Analyse images, recognize how they are lit and begin to use the "style of lighting" in their own practice
- 6. Create "High and Low Key" portraits
- 7. Photograph still life objects lit by flash, tungsten and "cold" lighting.

PROG	RAMME: NATIONAL DIPI	LOMA IN PHOTO	GRAPHY				
COUR	SE: STUDIO & LIGHTING			COL	URSE CODE: PHG 21	1 CONTACT HO	OURS: 2
GOAL	This course is designed to a	equaint the student	with the tec	chnica	al knowhow of photog	raphic studio practi	ce and
	lighting.						
COUR	SE SPECIFICATION:	THEORETICAL (CONTENT		PRACTICAL CO	ONTENT	
	General Objectives: 1.0 Use	a hand held light n	neter				
Week	Specific Learning	Teacher's	Resources		Specific Learning	Teacher's	Resources
	Outcomes	Activities			Objective	activities	
	1.1 Define Hand Held	Discuss Hand	Books,		Identify the various	Display the	Hand Held
	Meters	Held Meters	Journals,		types of Hand Held	various Types of	Meters
	1.2 Evalois the importance	Describe	Magazines	and	Meters	Hand Held	
	1.2 Explain the importance of Hand Held Meters	different types of	Hand Held			Meters	
	of fland fleid Weters	Hand Held	Meters				
		Meters					
	1.3 Label different types of	Wielers					
	Hand Held Meters						
	General Objectives: 2.0 Begi		e creative p	ossibi	lities that allows light	controls	
	2.1 List the following as	Discuss different	Books,		Categorise the	Categorise the	Tungsten,
	different light sources:	light sources.	Journal	,	various types of	various types of	Fluorescent,
	(a) Daylight(b) Flash		Magazi		lights. (Cold and	lights. (Cold and	Led, Ice
	(c) Fluorescent		colour g		Warm lights)	Warm lights)	Light, Flash
	(d) Led		and stud	dio			lights.
	(e) Ice Light		lights				
	(f) Tungsten, etc.						
	2.2. A decomposar	Describe the					
	2.2 Advantages and disadvantages of lighting.						
	disadvantages of fighting.	advantages and					
		disadvantages of					
		lighting.					
	2.3 Mixing studio flash with						
	daylight to control						

background exposure and image contrast. 2.4 Mixing studio flash and continuous lighting to create movement and blur. 2.5 Painting with lights in the studio. 2.6 Controlling the colour of light and images by using coloured gels. General Objectives: 3.0 Co 3.1 Discuss what is contrast	ontrol the level of control bescribe the reasons	rast desired by Reflectors,	the use of lights, refle	ctors and light shap	ers Reflectors,
in relation to flash	why light shapers	Snoots,			Snoots,
photography	and reflectors are needed in the studio	Honey Comb, Barn			Honey
3.2 Explain Reflectors and	for lighting.	Doors,			Comb, Barn
how they affect lighting in		Beauty			Doors,
photography.		Dish, etc.			Beauty Dish, etc.
3.3 Explain other light shapers in the studio: Snoots, Honey Combs, Door Barns, Beauty Dish etc.					Disti, etc.
General Objectives: 4.0 Us	e both "soft" and "har	d" lighting			
4.1 Discuss what is Soft and	Give assignment on	Cameras,		Demonstrate the	Cameras,
Hard lighting	hard and soft lighting	Studio Lights,		positioning of	Studio
4.2 Explain the effects of	ngnung	Tripods and		lights in creating	Lights,

shadows in pictures		Soft Boxes		a very good	Tripods and
				image in the	Soft Boxes
				Studio	
General Objectives: 5.0 Ar	nalyse images, recogniz	ze how they ar	e lit and begin to use	the "style of lighting'	" in their
own practice					
5.1 Explain the need in	Discuss technics on	Cameras,		Construct few	Cameras,
research of great	how people	Studio		methods of how	Studio
photographers in terms of	recognize images by	Lights and		to be consistent	Lights and
lighting in the studio	an artist from	Tripods		with own lighting	Tripods
5.2 E1-in h	another			signature in the	1
5.2 Explain how to mix different sources of light				studio	
together. E.g. daylight and				514410	
flash					
General Objectives: 6.0 Cro	eate "High and Low K	Ley" Portraits			
6.1 Explain What is "High"	Discuss the technics	Cameras,		Show the two	Cameras,
and "Low" Key Portraits	involve in the	Studio		backdrops needed	Studio
	creation of "High"	Lights and		to be able to	Lights,
6.2Explain when to use	and "Low" Key	Tripods		create a "High" or	Tripods and
either of the technics	Portraits			"Low" Key	Backdrops
	C:i			Portraits	Bucharops
	Give assignment on the two technics.			Tornaits	
 General Objectives: 7.0 Ph	II.	 ects lit by flash	tungsten and "cold"	 lighting	
7.1 Explain the correlation	Discuss the	Cameras,	, varing over warm vorm	Demonstrate the	Cameras,
between flash, tungsten and	correlation between	Studio		mixture of the three	Studio
cold lighting on a still life	flash, tungsten and	Lights,			
	cold lighting on still	Tungsten		lights source on	Lights,
	life	Lights and		Still life	Tungsten
7.2Explain still life		Tripods			Lights,
-					Tripods and
					Backdrops

Assessment: Course work 40% Examination 60%

SEMESTER - Third

COURSE TITLE: - DARKROOM PROCEDURES

DURATION - Lecture: 1 hr Practical 2hrs

UNIT: - 3

CODE NO: - PHG 212

GOAL: - This course is designed to acquaint the student with darkroom procedures.

GENERAL OBJECTIVES:

- 1.0 Know darkroom setting and equipment
- 2.0 Know photographic chemicals
- 3.0 Understand the procedures of using and handling darkroom equipment and chemicals

PROG	PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY								
	SE: DARKROOM PROCEI		COURSE O		CONTACT HOURS				
	: This course is designed to a	-				terials.			
COUR	SE SPECIFICATION:	THEORETICAL CO		PRACTICAL CO	NTENT				
	General Objectives: 1.0 Understand photographic chemistry.								
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources			
	Outcomes			Objective	activities				
	1.1 Define darkroom	Discuss darkroom.	Textbooks,						
			roll films,						
	1.2 State the essential	Discuss the essential	developing						
	requirements for a	requirements for a	tank, timer,						
	darkroom.	darkroom.	film washer,						
			graduated						
	1.3 Identify the equipment	Discuss the	containers,						
	used in processing film.	equipment used in	film clips,						
		processing film.	dryer etc.			Darkroom,			
	4.471	5				roll films,			
	1.4 Identify the equipment	Discuss the				developing			
	used in processing	equipment used in				tank, timer,			
	prints.	processing print.				film washer,			
				Identify the	Guide the student	graduated containers,			
	1.5 State the functions of			Identify the similarities and	to identify	drying rack,			
	each equipment in			differences of	darkroom	thermomete			
	processing raw film and			darkroom equipment	equipment.	r, printing			
	production of prints.			darkroom equipment	equipment.	frame,			
	production of prints.					developing			
						trays, film			
						clips, source			
						of water etc.			
						or water etc.			

General Objectives: 2.0 Kno	ow photographic chem	nicals						
2.1 Explain the use of the	Discuss chemicals	Textbooks,						
following chemicals	used in processing	journals,						
used in processing roll	roll film.	white board,						
film:		marker and						
(a) Developer;		cleaner.						
(b) Stop bath;								
(c) Fixer;								
(d) Water;								
(e) Wetting agent.								
2.2 Explain how to mix and	Discuss how to mix							
store chemicals.	and store chemicals							
5.0 General Objectives: Understand the procedure of using and handling darkroom equipment and chemicals								
3.1 Explain the processes of	Discuss the	Developing	Develop a roll film.	Demonstrate	Developing			
developing a roll film.	processes of	reel,		how to develop	reel,			
	developing black-	developing		roll film.	developing			
	and-white roll film.	tank, roll film, timer,			tank, roll			
3.2 State the functions of an	Discuss the	film washer,			film, timer,			
enlarger	functions of an	photo			film washer,			
	enlarger.	sponge,			photo			
		graduated			sponge,			
3.3 Explain the steps	Discuss factors that	containers,			graduated			
involved in processing	affect production of	thermometer,			containers,			
prints	good prints.	processing	Use the enlarger to	Demonstrate the	thermometer,			
3.4 Explain the factors that	Discuss safety	chemicals, enlarger,	produce prints.	process of	processing			
determine good prints	equipment.	safelight,		producing	chemicals,			
actornine good prints	oquipmon.	printing		prints.	enlarger,			
3.5 Explain the use of the		frame, trays,		1	safelight,			
following safety		drying racks			printing			
equipment:		etc.			frame, trays,			
- Rubber gloves					- , J - ,			

- Safety goggles			drying racks
 Printing tongs 			etc.
 Waterproof apron 			
- Particle mask etc.			

Assessment: Continuous Assessment: 40% Examination : 60%

SEMESTER: - Third

COURSE TITLE: - PHOTOSHOP II

DURATION - Lecture: 1 Hr Practical 1Hr

UNIT: - 2

CODE NO: - PHG 213

GOAL: - The course is designed to provide the student with skills on how to sue Photoshop

GENERAL OBJECTIVES:

- 1. Understand the toolbox
- 2. Understand palettes
- 3. Understand the key concept of image, size,. Resolution, resizing, pixel
- 4. Understand Colour management

PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY								
COUR	SE: PHOTOSHOP II		COURSE (CODE: 213	CONTACT HOURS	S: 3		
	: This course is designed to p							
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	PRACTICAL CO	NTENT			
	General Objectives: 1.0 Und			-		·		
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources		
	Outcomes			Objective	activities			
	1.1 Explain Toolbox.	Discuss Toolbox	Textbooks,	Apply the tools to				
	105		Journal,	manipulate images	View the toolbox	Computer		
	1.2 Enumerate basic tools	Explain basic tools	Internet and		on the screen	system,		
	- Move		computer			projector,		
	- Zoom	Discuss various			Demonstrate the	etc.		
	- Marquee	tools and their			use of tools to			
	- Lasso	application			manipulate			
	- Crop - Etc.				images.			
	- ElC.							
	1.3 Explain the uses of							
	various tools and how they							
	can be applied to image, e.g							
	polygona, magnetic, patch,							
	red eyes etc							
	General Objectives: 2.0 Und	lerstand Palettes			•			
	2.1 Define Palettes	Discuss Palettes	Textbooks,	Apply the palettes to	Demonstrate the	Computer		
			Journals,	manipulate images	use of palette to	system,		
	2.2 List the contents of	Enumerate the	Internet		manipulate	projector		
	Palette:	contents of Palette			images.	etc.		
	- Info							
	- History							
	- Colour Swatches							
	General Objectives: 3.0 Un	derstand the key conc	ept of Image s	size, resolution, resizi	ng, pixel			

3.1 Explain Image size,	Discuss image size,	Textbooks,	Demonstrate how	Show how pixel	Computer
resolution, pixel etc	resolution, pixel, etc.	Journals,	pixels, resolution	resolution etc	System,
		Internet	affects the image size.	affects the image	Projector,
			Size.	size.	etc.
General Objectives: 4.0 Un	derstand Colour Mana	ngement			
4.1 Explain the colour	Discuss the attribute	Demonstrat	Guide student to		
management, colour	of colour	e different	demonstrate		
correction.	management	ways of	different ways of		
42 5 1 1 1	D' 41 1	colour	colour management,		
4.2 Explain the colour	Discuss the colour mode	managemen	selection and file		
mode Kab, CYMK, RGB	mode	t, selection and file	format.		
4.3 Explain the processes	Discuss the process	format.			
of adjusting colour tone	of colour tone	Torrinat.			
with curves, level, exposure,	adjustment				
hue/saturation					
4.4 Explain the conversion					
of image sepia, black and					
white, monochrome, black					
and colour etc.					
4.5 Explain how to read	Discuss how to read				
navigator, histogram, info,	navigator histogram				
etc	info etc.				
4.6 Explain the various	Discuss various tools				
tools for selection, e.g Lasso	for selection.				
Marquee, Magic Wand, etc.					
4.7 Explain different type	Discuss file format.				
of file format, e.gJPEG,	Discuss the format.				
PSD, RAW etc					

Assessment: Course work 30%, Test 10%; Practical 20%; Examination 40%

ND II

FOURTH SEMESTER

SEMESTER: - Fourth

COURSE TITLE: - PHOTOSHOP III

DURATION - Lecture: 1 Hr Practical 2Hr

UNIT: - 3

CODE NO: - PHG 242

GOAL: - The course is designed to provide the student with indepth knowledge of Photoshop

GENERAL OBJECTIVES:

- 1. Understand layers
- 2. Understand Masks and channels
- 3. Understand correction and Enhancement of Digital images
- 4. Know Typographic Design

PROG	RAMME: NATIONAL DIP	LOMA IN PHOTOGR	APHY			
COUR	SE: PHOTOSHOP III		COURSE (CODE: PHG 242	CONTACT HOURS	5: 3
	: The course is designed to pr			0	-	
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT	PRACTICAL CO	NTENT	
	General Objectives: 1.0 Und	derstand Layers				
Week	Specific Learning	Teacher's Activities	Resources	Specific Learning	Teacher's	Resources
	Outcomes			Objective	activities	
	1.1 Explain how to use the	Discuss how to use	Textbooks,	Use the Layers	Demonstrate the	Computer
	layers palette	the layers palette	Journals,	Palette to enhance an	use of the layers	system,
			Internet,	image	palette to enhance	Projector,
			Maker		an image	etc.
			board,			
	1.2 Explain layers style	Discuss	projector	Illustrate the	Demonstrate the	
		rearrangement of		rearrangement of	rearrangement of	
		layers		layers.	layers while	
	1.3 Explain how to				designing	
	rearrange layers.	Discuss layer style		Apply style		
	1.4 Explain how to merge	Discuss how to		Carry out merging	Demonstrate	
	and flatten layers.	flatten layers		and flattening of	proper procedure	
		,		layers.	of merging and	
					flatting.	
	General Objectives: 2.0 Ur	derstand Masks and (Channels			ı
	2.1 Explain Masks and	Discuss masks and	Textbooks,	Use Masks and	Demonstrate the	Computer
	channels	channels	Journals,	channels to enhance	use of Masks and	system,
			Internet,	an image	channels to	Videos and
			Maker		enhance an image	projector
			board.			etc.
	2.2 Explain creating and	Discuss how to		Demonstrate	Guide the	

editing a quick mask	create and edit a quick mask.		creating and editing a quick mask.	students to create and editing a			
	1		1	quick mask.			
2.4 Explain saving a	Discuss saving a		Demonstrate saving	Guide students to			
selection as channel	selection as channel		a selection as	saving a selection			
mask	mask		channel mask	as channel mask			
2.5 Explain the application	Discuss Hue to		Apply filter effect to	Guide student to			
of filter effect to a mask	application of filter		a Mask selection	apply filter effect			
selection	effect to a mask			to a mask			
	selection.			selection			
2.6 Explain gradient mask	Discuss gradient		Apply effects using				
	mask.		gradient mask.				
General Objectives: 3.0 Understand Correction and Enhancement of Digital Images							
3.1 Define Camera raw	Explain camera raw	Textbooks	Carryout the	Demonstrate how	Computer		
		Journals	processing of a	to process a	system, and		
3.2 Explain the processing	Discuss the	Videos	camera raw file	camera raw image	projector		
of camera raw file	processing of camera	Internet		file	etc.		
	raw file	Marker					
		Board					
3.3 Explain correction of	Discuss correction of		Guide student to	Demonstrate how			
digital images	digital images		correct digital	to correct digital			
			images	images			
3.4 Explain PDF	Discuss PDF		Describe creation of	Guide students to			
-			PDF	create PDF			
General Objectives: 4.0 Kn	ow Typographic Desig	n	•	•			
4.1 Define typographic	Discuss typographic	Textbooks	Guide student to				
design	design	Journals	create a clipping				

		Internet	mask from type	Demonstrate the
4.2 Explain clipping mask	Discuss clipping	Marker		creation of
from type	mask from type	Board		clipping mask
				from type
4.3 Explain ways of creating a design elements from type	Discuss how to create a design element from type		Guide students to create design from type	Demonstrate how to create design from type
4.4 Explain Warping type	Discuss Warping		Illustrate how to	Demonstrate how
	type.		warp type	to warp a type.

Assessment: Course work 40%, Examination 60%

SEMESTER - Fourth

COURSE TITLE: - LAWS AND ETHICS RELATING TO PHOTOGRAPHY

DURATION - Lecture 1 hr Practical 0hr

UNIT: - 1

CODE NO: - PHG 222 **ND**

GOAL: - This course is designed to acquaint the student with knowledge of law and ethics relating to the

practice

of photography

GENERAL OBJECTIVES:

- 1. Understand the importance of law in the society
- 2. Know the laws relating to some selected professional practice
- 3. Known some selected legal terms
- 4. Know the rights and limitations to take pictures
- 5. Understand the basic principles of copyright
- 6. Know the basic principles of Libel
- 7. Know basic elements and principles of ethical standards.

PROG	RAMME: NATIONAL DIP	LOMA IN PHOTOGR	RAPHIC TI	ECH	INOLOGY		
COUR	SE: LAW AND ETHICS RE	ELATING TO	(COU	RSE CODE: PHG 21	12 CONTACT	HOURS: 3
	OGRAPHY						
GOAL	: This course is designed to	-	vith knowle	edge	of laws and ethics re	lating to photog	raphic practice
		e industry in general			ı		
COUR	SE SPECIFICATION:	THEORETICAL CO			PRACTICAL CO	ONTENT	
	General Objectives: 1.0 Und				<u>*</u>	T	
Week	Specific Learning	Teacher's Activities	Resource		Specific Learning	Teacher's	Resources
	Outcomes				Objective	activities	
	1.1 Explain the role and	Discuss as in 1.1	Books				
	importance of law in		Internet				
	Nigeria		Law repor	rts			
	General Objectives: 2.0 Kn	0		ofes	sional practice		
	2.1 Explain the various law	Discuss 2.1	APCON				
	and legislations relating		code of				
	to media		conduct				
			Nigeria				
			constitutio	on			
	2.2 Explain the various laws	Discuss various laws	NUJ code	;			
	and legislations relating	and legislation	of conduc	t			
	to the creative and	relating to the	Books				
	entertainment industry	creative and					
		entertainment					
		industry					
	General Objectives: 3.0 Km	ow some selected lega	l terms			I	

3.1 Explain the following terms: - National security - Clear and present danger to public safety - Copyright - Courtroom proceeding - Libel - Slander - Common Law - Criminal offense - Civil offense - Right of Privacy - Defamation - Public figures - Privacy and property rights - Obscenity - Profanity - etc	Discuss how each of the terms affect photography			
General Objectives: 4.0 K	Know in rights and limit	ation to take p	icture	
4.1 Explain the rights of Freedom	Discuss the right of freedom to take pictures	Official secret Act of 1962		
4.2 Explain the rights to take Picture		57.1702		
4.3 List the various statues limiting the right to take picture	Discuss the official secret act.			

		,		1	
4.4 Explain locations,					
places, areas etc. where the					
use of photographic					
equipment is restricted by					
laws.					
General Objectives: 5.0 U	nderstand the basic pri	nciple of Copy	vright		
5.1 Explain copyright	Discuss copyright				
5.2 Explain the basic					
principles of copyright					
5.3 Explain how to					
secure					
copyright for:					
- Published					
photographs					
- Unpublished					
photographs					
General Objectives: 6.0 K	know the basic principle	s of Libel			
6.1 Explain libel	Discuss				
6.2 Explain principles of	Discuss				
libel	Discuss				
11001					
6.3 Explain libel by					
Photograph					
General Objectives: 7.0 K	I Inow the basic elements	and principle	s of ethical standards		
General Objectives. 7.0 P	and we the busic cicinents	and principle	s of cultar standards		

7.1 Explain ethics			
7.2 Discuss ethical			
standard			
in photography			
- The personal level			
- The professional			
level			
- The societal level			

Assessment: Course work 40% Examination 60%

PROGRAMME: - NATIONAL DIPLOMA IN PHOTOGRAPHY

SEMESTER: - FOURTH

COURSE TITLE: - PRINT FINISHING / PRESENTATION

DURATION: - Lectures:1hr Practicals:1hr

CREDIT UNIT: - 2

CODE NO: - PHG 223

GOAL: This course is designed to provide the student with knowledge on finishing and presentation of photographs.

GENERAL OBJECTIVES:

- 1. Understand print finishing processes.
- 2. Know how to mount prints.
- 3. Know how to produce a portfolio.
- 4. Know how to plan and exhibit.

PROG	PROGRAMME: NATIONAL DIPLOMA IN PHOTOGRAPHY							
COUR	SE: PRINT FINISHING & I	PRESENTATION	COURSE	E CODE: PHG 223	CONTACT HOUR	S: 2		
	GOAL: The course is designed to provide the student with knowledge on how to finish and present photographs. composition							
COUR	SE SPECIFICATION:	THEORETICAL CO	NTENT 1	PRACTICAL CONTI	ENT			
	General Objectives: 1.0: Un	derstand print finishi	ng processes.					
Week	Specific Learning Outcomes	Teacher's Activities	Resources	Specific Learning Outcomes	Teacher's activities	Resources		
	 1.1 Explain print finishing. 1.2 Explain how to use brushes, airbrush, and lacquer to enhance picture quality. 1.3 Explain how to produce transparency. 1.4 Explain how to mount transparency. 	Discuss print finishing. Describe how to use fixative, airbrush and lacquer to enhance picture quality. Discuss transparency and how to mount transparency.	Books, Journals, Magazines and different types of photo papers. Airbrush, fixative, lacquer, stickers	Identify the various types of finished prints.	Display the various types of finished prints.	Books, Journals, Magazines and different types of photo papers.		
	General Objectives: 2.0 Kno	ow how to mount print	S.					
	2.1 Explain print mounting.	Discuss different types of mounting. Stickers	Cutter, Mounting Boards,	Differentiate the various types of mounts.	Assemble the types of mounts.	Cutter, Mounting Boards,		
	2.2 Explain the Dry and wet Mounting technique.		Sharpener, Frames, Masking			Sharpener, Frames, Masking Tapes,		

2.3 Explain Glass framing technique.2.4 Explain lamination technique.2.5 explain canvassing technique		Tapes, Gum, Heat Sealer. stickers			Gum, Heat Sealer. stickers
General Objectives: 3.0	Know how to produce a	Portfolio.	,		•
3.1 Explain Portfolios and their importance.3.2 Explain the different types of Portfolios.3.3 explain how to create digital portfolios.	Discuss Portfolios.	Photo Books, Mounted Prints, Clear Sleeves, CD, and DVD, internet etc.	Use Prints, digital files to make type(s) of Portfolio(s).	Demonstrate how to use Photo Book, Mounted Prints, Clear Sleeves, CD, and DVD etc. to make Portfolios.	Photo Book, Mounted Prints, Clear Sleeves, CD, DVD etc.
General Objectives: 4.0	Know how to plan and ex				
4.1 Define a Body of Work.4.2 Explain Exhibition	Discuss having a body of work. Discuss Exhibition.	Books, magazine, journals	Mount an exibition	Guide the student to mount an exibition	Body of work. Display boards/stan d

Assessment: Course Work: 40% Examination: 60%

PROGRAMME: - NATIONAL DIPLOMA IN PHOTOGRAPHY

SEMESTER: - FOURTH

COURSE TITLE: - PHOTOGRAPHY BUSINESS

DURATION: - 1HRS

CREDIT UNIT: - 1

CODE NO: - PHG 224

GOAL: This course is designed to provide the student with practical information on a sole proprietor

GENERAL OBJECTIVES:

- 1. Understand Photography Business.
- 2. Know how to Market and Publish.
- 3. Know how to set up Bookkeeping Records.
- 4. Know how to Register a company
- 5. Understand image Copyright.

PROG	RAMME: NATIONAL DIP	LOMA IN PHOTOGI	RAPHY			
	SE: PHOTOGRAPHY BUS			RSE CODE: 224 CONTACT HOURS: 1		
	: The course is designed to p		_			
COUR	SE SPECIFICATION:	THEORETICAL CO		PRACTICAL C	CONTENT	
	General Objective: 1.0 Und	9 - 1	Business.			
Week	Specific Learning	Teacher's Activities	Learning	Specific	Teacher's	Resources
	Outcomes		Resources	Learning	activities	
				Objective		
	1.1 Explain Professional	Discuss working as a	Books,			
	Photography.	Professional	Journals,			
		Photographer.	Magazines			
	1.2 Explain personal	Discuss personal	and Resource			
	presentation.	presentation.	Person.			
	presentation	presentation.				
	General Objectives: 2.0 Kn	ow how to Market and	l Publish.			
	2.1 Explain Marketing.	Discuss marketing.	Books,			
			Journals,			
	2.2 Explain Publishing.	Discuss publishing.	Magazines			
	2.2 Evaloin Publicity	Discuss publicity.	and Resource			
	2.3 Explain Publicity.	Discuss publicity.	Person.			
	General Objectives: 3.0 Kı	now how to set up a Bo	okkeeping Reco	rds.	I	l .
	3.1 Explain Bookkeeping.	Discuss	Books,			
		Bookkeeping.	Journals,			
	3.2 Explain Invoicing, Cost		Magazines			
	Accounting, Investment and	Discuss Invoicing,	and			
	Pension.	Cost Accounting,	Resource			
		Investment and	Person.			

4.0	3.3 Explain Credit Control 3.4 Explain Business plain. General Objectives: Know he	Pension. Discuss Credit Control. Discuss Business plan.	any and becon	ne VAT registered	
1.0			-	ic viti registered.	
	4.1 Explain Company	Discuss Company	Books,		
	Registration.	Registration.	Journals,		
	4.2 Explain Taxation	Discuss VAT,	Magazines		
	(Personal income and VAT)	Personal income	and		
		Taxation	Resource		
			Person.		
	4.3 Explain Insurance	Discuss Personal			
		Accident Insurance,			
		Critical Illness			
		Insurance.			
5.0 Ge	neral Objective. Understand	image Copyright.			
	5.1 Explain Copyright	Discuss Copyright.	Books,		
	50 D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D' W D'	Journals,		
	5.2 Explain key points of Copyrights.	Discuss Key Points of Copyrights:	Magazines		
	Copyrights.	(a) Protected Works	and		
		(b) Artistic Works	Resource		
		(c) Authorship	Person.		
		(d) Ownership			
		(e) Duration			
		(f) Employed			
		Photographers			
	5.3 Explain Licensing the	Discuss Licensing			
	use of photographs.				

5.4 Explain Moral Rights			
5.5 Explain Ethics			
5.6 Explain Contracts and licensing.			

Assessment: Course work 40%,

Examination 60%

S/NO	WORKSHOP/STUDIO/	EQUIPMENT REQUIRED	QUANTITY
	LABORATORY		
1.	Design Studio (ND & HND)	Drawing tables (A2 size)	30
		Storage Cupboards	30
		Work tables (15 x 2.5m2)	2
		Hand trimmer	5
2.	Photographic Studio (ND & HND)	2.5 h.p Air conditioner.	2
		Twin –lens Reflex camera	2
		Single lens reflex camera (Analogue)	4
		35 mm Rangefinder camera	4
		35 mm Digital camera	10
		Medium format camera	5
		View Camera	5
		Electronic light flash gun	10
		Camera Tripod	10
		Standard lens (50mm)	5
		Wide-angle lens	2
		Telephoto lens	2
		Zoom lens	2 2 2
		Fish-eye lens	
		Camera Extension tubes	2 2 2
		Bellow attachment	2
		Focusing bellows	2
		Hand held meter	15
		Camera cable release	15
3.	Photographic Laboratory	Hand Trimmer & Guillotine	5
	(ND & HND)	Condenser Enlargers	5
		Diffusion Enlargers	5
		Paper Dryers	5

		Masking Frames	15
		Film negative storage	5
		Darkroom Densitometer	5
		Developing Dishes	1 sets (8 dishes)
		Developing tanks	5
		A & B developers (in packets)	20
		Photo-flo chemicals	20
		Studio Safelights (red & Yellow)	20
		Developing Timer Clock	$\frac{1}{2}$
		Magnifying Mirror	5
		Exposure Meters	10
		Fixer Chemicals (in packets)	20
		Roll fim	20 packets
		Funnels	12 packets
		Pegs	4 dozens
		Bromide paper	5 packets
		Hand gloves	5 packets
		Contact proof printers	3
		Safety goggles	$\begin{vmatrix} 5 \\ 50 \end{vmatrix}$
		First aid box	1
		Scissors	$\begin{vmatrix} 1 \\ 20 \end{vmatrix}$
		Tongs	40
		Callibrated containers	12
		Aprons	30
		Negative viewer	$\frac{1}{2}$
		Worktops	4
		Stools	8
		Airconditioners (2.5 hp)	$\begin{vmatrix} 3 \\ 2 \end{vmatrix}$
		5 KVA Stabilizers	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$
4	Photographic Colour Laboratory	Colour Camera Enlargers	2
+	I notographic Colour Laboratory	Darkroom Densitometer	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$
		Darkioulii Delisitullietei	J

		Colour Analyses	O
		Colour Analyser	8
		Colour Densitometer	4
		Manual film processor	5
		Automatic film processor	1
		Gelatine filters	5
		Dichroic filters	5
		Masking Frames	20
		Film negative storage	5
		Developing Tanks and Reels	10
		2.5 hp Air conditioner	2
		Developing Timer clocks	3
		Paper Dryers	3
		Magnifying Mirror	5
		Negative viewer	2
		Film Holder (tongs)	30
		Filter Tray	20
		Developing Dishes	20
		Photo – flo chemicals (in packets)	20
		Hand Guillotine and Trimmer	5
		Photographic paper	20 packets
		Roll fim	20
		Airconditioner	2 (2.5 Hp)
		Stabilizer	2 (5KVA)
5.	Computer (PHOTOSHOP) Studio	Desk top computer units (System	31
	(ND & HND)	configuration: minimum 20" screen	
		monitor; 1 terrabyte hard drive; 16 GB	
		RAM and Card reader)	
		Colour printers (A3)	5
		Scanners – A3 (Flatbed & film) not less	5
		than 2,400 dpi/48bits.	
		Softwares assorted (Adobe Photoshop,	
		2 3 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	<u> </u>

		Lightroom, ImageReady, Corel Draw,	
		Indesign etc.)	
		CDs; DVDs; External hard drives	
		Screen Projector and stand	2
6.	Display Room	Display Boards	20
		Display Board Stands	10
		Masking tapes	
		Lacquer	
		Airbrush	
		Thumb tacks	

NOTE: Consumable items to be procured could be replenished accordingly for students use. The items are photographic papers and panchromatic/orthochromatic film negatives as well as chemicals.

SCHOOL - ART, DESIGN, PRINTING AND RELATED PROGRAMME

DEPARTMENT - PHOTOGRAPHY

ENVIRONMENT - 30 STUDENTS PER STREAM

The size of these facilities should not be below the standard stated below:

Workshop/Laboratory/ Studio	Capacity	Minimum Surface Area Per	Minimum Surface Area for	Ancillary Space as	Surface Area Required	No of Unit Required	Total Surface Area
		Studio	Unit (M2)	Surface Area	Kequirea	Area	Required
Design Studio	30	7.20	216.00	25.00	270.00	4	370.00
Photographic Studio	30	5.10	150.00	25.00	187.50	2	375.00
Photographic Colour Laboratory	30	5.10	150.00	25.00	187.50	2	375.00
Computer Studio	30						
Display Room	20	5.10	150.00	25.00	187.50	2	375.00

Each of the workshop/laboratories/studio should not be used for more than 30 hours per week because of the used factor of 7. If it is more than the required, then an additional workshop/Laboratory/Studio should be provided.

LIST OF PARTICIPANTS (CURRICULUM DEVELOPMENT IN PHOTOGRAPHIC TECHNOLOGY, IBADAN, OCTOBER, 1999)

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