

**JOY INTERNATIONAL COLLEGE**  
**A CHRISTIAN CO-EDUCATIONAL BOARDING INSTITUTION**  
**KM 12 KADUNA ABUJA EXPRESS WAY KADUNA**

COMMERCE SS3 FIRST TERM TOPICS.

WEEKS	TOPICS	CONTENT
1	Insurance.	A . Types of insurance. B . Some insurance terms.
2	Business Law	A . Branches of commercial law. B . Principle of agency. C . Rights and obligations of employers and the employee.
3	Business Law.	D. Government regulations of business.: i. Registration of business. ii. Patent law.
4	Business Law.	iii . Trade mark. iv. Copyright -set.

**SCHEME OF WORK SSIII FIRST TERM**

WEEKS	TOPIC	CONTENT
1	4. Database	1. Definitions: - Database - Database packages (DBMS) 2. Examples of DBMS: 3. Definition of Basic terminologies: - File - Record - Field - Key 4. Forms of database organization: 5. Computer database Format: 6. Creating database: 7. Basic operations
2	7. High level languages (HLL)	1. Definition of High Level Language (HLL) 2. Examples of HLL: 3. Features of BASIC, C, PASCAL, COBOL 4. Advantages of HLL over ML and LLL.
3	8. Overview of Number Bases	1. Review of number bases <ul style="list-style-type: none"> <li>• Binary</li> <li>• Octal</li> <li>• Decimal</li> <li>• Hexadecimal</li> </ul> 2. Conversion in number bases 3. Basic arithmetic in number bases <ul style="list-style-type: none"> <li>• Addition</li> <li>• Subtraction</li> </ul>
4	9. Data Representation	1. definition of data representation 2. Description of data representation methods: <ul style="list-style-type: none"> <li>• Bits</li> <li>• BCD</li> <li>• EBCDIC</li> <li>• ASCII</li> </ul> 3. Computer character sets
5	Security and Ethics	1. Sources of security breaches 2. Preventive measures 3. Legal issues:

**COMPUTER SCIENCE SCHEME OF WORK SSIII FIRST TERM**

WEEKS	TOPIC	CONTENT
1	4. Database	1. Definitions: - Database - Database packages (DBMS) 2. Examples of DBMS: 3. Definition of Basic terminologies: - File - Record - Field - Key 4. Forms of database organization: 5. Computer database Format: 6. Creating database: 7. Basic operations
2	7. High level languages (HLL)	1. Definition of High Level Language (HLL) 2. Examples of HLL: 3. Features of BASIC, C, PASCAL, COBOL 4. Advantages of HLL over ML and LLL.
3	8. Overview of Number Bases	1. Review of number bases <ul style="list-style-type: none"> <li>• Binary</li> <li>• Octal</li> <li>• Decimal</li> <li>• Hexadecimal</li> </ul> 2. Conversion in number bases 3. Basic arithmetic in number bases <ul style="list-style-type: none"> <li>• Addition</li> <li>• Subtraction</li> </ul>
4	9. Data Representation	1. definition of data representation 2. Description of data representation methods: <ul style="list-style-type: none"> <li>• Bits</li> <li>• BCD</li> <li>• EBCDIC</li> <li>• ASCII</li> </ul> 3. Computer character sets
5	Security and Ethics	1. Sources of security breaches 2. Preventive measures 3. Legal issues:

**TAKE HOME ASSIGNMENT FOR SSS3 (ECONOMICS)**

WEEK	TOPIC	CONTENT
1	FINANCIAL INSTITUTION	a. Commercial bank b. Central bank c. Specialized banks
2	INFLATION	a. Meaning and type b. Causes of inflation c. Remedies for inflation d. Effects of inflation
3	PUBLIC FINANCE	a. Meaning b. Fiscal policy c. Sources of government revenue d. Government expenditure e. Reasons for government expenditure
4	TAXATION	a. Meaning of tax b. Canons of tax c. System of taxation

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ENGLISH LANGUAGE SCHEME OF WORK FOR SS3 1<sup>ST</sup> TERM TAKE HOME ASSIGNMENT

S/N	TOPICS	CONTENT
1	Essay	Informal letter, narrative essay
2	Oral	Diphthongs, consonant, monophthongs
3	structure	Idioms/ idiomatic expression
4	structure	Noun clause
5	structure	Reported speech, sequence of tenses

**TAKE HOME ASSIGNMENT FOR PROSPECTIVE SS3 STUDENTS ( FURTHER MATHEMATICS)**

S/NO	TOPIC	CONTENT
1. Integration	(i) Anti-derivative (ii) Standard integrals (iii) Integration by algebraic substitution (iv) Integration by trigonometrical substitution (v) Integration by parts (vi) Integration by partial fractions	
2. Probability Distributions	(i) Binomial distribution (ii) Poisson distribution (iii) Normal distribution	
3. Composition and resolution of coplanar forces	(i) Composition of forces (ii) Resolution of forces (iii) Resultant of several concurrent forces	
4. Matrices	(i) Basic concepts (ii) Addition and subtraction of matrices (iii) multiplication of matrices (iv) Transposition and special matrices	
5. Determinants	(i) Determinants of order 2 (ii) Determinants of order 3 (iii) Simultaneous equations	

**NB: You are to prepare notes per each topic (content by content) with examples and submit on the day of resumption**

FIRST TERM SCHEME OF WORK FOR SS 3 (LITERATURE)

WEEK	TOPIC	CONTENT
1	Othello	Background of the play and author
2	Othello	Act 1 scene 1 and 2
3	Othello	Act 2 scene 1 and 2

4	Vanity	Background of the poem and poet
5	Vanity	Subject matter, stanza analysis, themes and poetic devices

### **1<sup>ST</sup> TERM SCHEME OF WORK FOR SS 3 MATHEMATICS EXAMINABLE TOPICS AND CONTENTS FOR SS3**

Week	Topic	Content
1	Latitude and Longitude	i. Great and Small circle ii. The Earth iii. The distance along longitude iv. The distance along Great circle
2	Statistics	i. Mean, median mode (grouped data) ii. Standard deviation and Variance (grouped data) iii. Cumulative frequency curve iv. Quartile and percentile
3	Bearing and distances	i. Concept of bearing ii. Two figure bearing iii. Three figure bearing iv. Calculating bearing and distance problems
4	Graphs	i. Quadratic graphs ii. Trigonometric graphs
5	Matrices and determinants	i. Addition and Subtraction of matrices ii. Scale multiplication of matrices iii. Multiplication of matrices iv. Transposition of matrices v. Adjoint of matrices vi. Inverse of matrices vii. Cramer

ANIMAL HUSBANDRY TAKE HOME ASSIGNMENT SS 3		
1	Animals nutrition	i. Meaning of animals nutrition ii. classification of animals feeds (concentrate, supplement, roughages, feeds additives)
2	Processing of animals product	i. Processing technique (slaughtering and post slaughtering activities) ii. slaughtering labs and hygiene
3	Marketing of animals produce	i. meaning of marketing and marketing agric produce ii. marketing channels iii. Marketing agent and their functions -producers, -wholesalers,
4	Apiculture	Definition of apiculture Importance of apiculture Composition of bee colony with their features and functions Steps of wax processing

### **SS3 AGRIC SC SCHEME OF WORK**

1	Crop Improvement	<ul style="list-style-type: none"> <li>Aims of crop improvement</li> </ul> -To increase yield, improve quality of produce etc. <ul style="list-style-type: none"> <li>Methods of crop improvement</li> </ul> -Proper timing of planting, adoption of better cultivation methods, etc. <ul style="list-style-type: none"> <li>Mendel's law of inheritance</li> </ul> -Definition of some genetic terms: Chromosomes, genes etc. -Mendel's first law of segregation of genes -Mendel's second law of independent assortment of genes (give examples) Advantages and disadvantages of crop improvement
2	Animal Improvement	<ul style="list-style-type: none"> <li>Meaning of animal improvement</li> <li>Aims of animal improvement</li> <li>Methods of animal improvement</li> </ul> -Introduction, Selection, Types of selection, Breeding, Types of Breeding

		<ul style="list-style-type: none"> <li>• Meaning of artificial insemination</li> <li>• Methods of collecting semen</li> </ul> Advantages and disadvantages of artificial insemination
3	Aquaculture	<ul style="list-style-type: none"> <li>• Meaning of Aquaculture</li> <li>• Different types of Aquaculture -Fish farming, Shrimp farming, Crab farming etc.</li> <li>• Meaning of fish farming</li> <li>• Importance of fish farming</li> <li>• Conditions necessary for setting a fish pond - Adequate water supply, soil, vegetation etc.</li> <li>• Establishment and maintenance of fish pond</li> <li>• Fishery regulations – meaning and regulations like close season, catch quota, regular stocking etc. - Fishing methods and tools.</li> </ul>
4	IRRIGATION	<ol style="list-style-type: none"> <li>a. Meaning of irrigation</li> <li>b. Types and Description of each irrigation</li> <li>c. Advantages and disadvantages of each irrigation</li> <li>d. Importance of irrigation</li> <li>e. Problems associated with irrigation</li> </ol>

### SS3 BIOLOGY

WEEK	TOPIC	CONTENT
1.	KIDNEY	1 Structure of Kidney 2 Functions 3 Effects of Kidney diseases 4 Ways to Remedy K. diseases
2.	LIVER	1 Structure 2 Functions 3 Diseases 4 Remedy
3.	SKIN	1 Structure 2 Functions 3 Diseases 4 Care of the Skin.
4.	HORMONES	1 Functions of Hormones 2 Types of Hormones & where secreted 3 Effects of over secretion & deficiency of hormones 4 Plant Hormones & Functions 5 Modern Application of Auxins 6 Effects of Auxins
5.	THE CENTRAL NERVOUS SYSTEM (C. N. S.)	1 Components of the CNS 2 Structure of the Spinal Cord 3 Components of Brain 4 Description & Functions of the Brain 5 Functions of the CNS

### CHEMISTRY SCHEME OF WORK FOR SS3

S/N	TOPICS	CONTENTS
1	ALKANOIC ACID	-LABORATORY PREPARATION OF ALKANOIC ACID -PHYSICAL AND CHEMICAL PROPERTIES -USES OF ALKANOIC ACID -IUPAC NOMENCLATURE OF ALKANOIC ACID
2	ALKANOATES	-LABORATORY PREPARATION OF ALKANOATES -PHYSICAL AND CHEMICAL PROPERTIES -USES OF ALKANOATES -PROPERTIES OF FATS AND OIL

		-HYDROGENATION OF OILS -SAPONIFICATION
<b>3</b>	<b>CHEMICAL BONDING</b>	-CHEMICAL BONDING BASED ON PERIODIC PROPERTIES OF ATOMS -ATOMIC VOLUME, IONIZATION ENERGY -ELECTROPOSITIVITY -ELECTRONEGATIVITY -POLARITY OF CHEMICAL BONDS -ELECTROAFFINITY -POLARITY OF MOLECULES
<b>4</b>	<b>ENERGY</b>	-ENERGY INVOLVED IN VARIOUS CHEMICAL BONDING -SHAPES OF SIMPLE MOLECULES -PROPERTIES AND STRUCTURE OF SOLIDS , COVALENT, IONIC, METALLIC AND MOLECULAR SOLIDS -HYBRIDIZATION IN S AND P ORBITALS
<b>5</b>	<b>METALS AND THEIR COMPOUNDS</b>	-PRINCIPLES OF EXTRACTION OF METALS -REDUCTION BY ELECTROLYSIS -REDUCTION BY THE USE OF CARBON OR CARBON [IV] OXIDE -THE ALKALI METALS SODIUM AND ITS COMPOUNDS -EXTRACTION OF SODIUM METAL -PHYSICAL AND CHEMICAL PROPERTIES OF SODIUM METAL -USES OF SODIUM METAL -COMPOUNDS OF SODIUM, SODIUM CHLORIDE, SODIUM HYDROXIDE, SODIUM TRIOXOCARBONATE[IV], SODIUM HYDROGEN TRIOXOCARBONATE[IV]

#### PHYSICS SCHEME OF WORK FOR SS3

S/N	TOPICS	CONTENTS
<b>1</b>	<b>NUCLEUS, RADIOACTIVITY, NUCLEAR REACTIONS</b>	-NATURAL AND ARTIFICIAL RADIOACTIVITY -PROPERTIES OF THE EMITTED PARTICLES -RADIOACTIVE DECAY, HALF LIFE DECAY CONSTANT -TRANSFORMATION OF ELEMENTS -NUCLEAR ENERGY
<b>2</b>	<b>ENERGY QUANTIZATION</b>	-ATOMIC ENERGY LEVEL -FRANK-HERTZ EXPERIMENT -ATOMIC SPECTRA; COLOUR AND LIGHT FREQUENCY -PHOTO-ELECTRIC EFFECT -X-RAYS
<b>3</b>	<b>ELECTRIC FIELD 2</b>	-PRODUCTION OF CONTINUOUS CHARGES -ARRANGEMENT OF CELLS -RESISTIVITY AND CONDUCTIVITY -GALVANOMETER CONVERSIONS -THE PRINCIPLE OF A POTENTIOMETER, WHEATSTONE BRIDGE AND METRE BRIDGE
<b>4</b>	<b>SOUND WAVES</b>	-PRODUCTION AND TRANSMISSION OF SOUND -CHARACTERISTICS OF SOUND -FORCED VIBRATION -VIBRATION IN STRINGS AND PIPES -APPLICATION OF SOUND WAVES IN MUSICAL INSTRUMENTS
<b>5</b>	<b>SIMPLE A.C CIRCUITS</b>	-NOMENCLATURE IN A.C CIRCUITS -RESISTANCE, CAPACITANCE AND INDUCTANCE IN A.C CIRCUIT -SERIES CIRCUIT CONTAINING RESISTANCE, INDUCTANCE AND CAPACITANCE -PHASE RELATION BETWEEN I AND V IN AN A.C CIRCUIT. VECTOR DIAGRAM. -RESONANCE IN RLC SERIES CIRCUIT

#### TECHNICAL DRAWING SS 3

<b>1</b>	Computer Aided Drawing	Building and engineering designs using	Use the computer and appropriate soft wares for b
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	(CAD)	Corel draw and Harvard graphics etc.	uilding and engineering designs
2 - 3	Reading for construction and Production Industries	Blue print reading and interpretation.	Read and interpret blue print for construction and production industries
4 - 5	Computer Aided Drawing and Training Services	Computer aided drawing (CAD). Computer aided drawing training	Produce computer aided drawing services Offer computer aided drawing training services

#### FINANCIAL ACCOUNTING SCHEME OF WORK FOR SS 3 TAKE HOME ASSIGNMENT FOR 1<sup>ST</sup> TERM

1-2	CONSIGNMENT ACCOUNT/ REGULATION OF THE CAPITAL MARKET	<ul style="list-style-type: none"> <li>a. Definition of Consignment</li> <li>b. Explanation of terms</li> <li>c. Preparations of accounts on consignment inward and outward accounts</li> <li>d. Consignor and Consignee accounts</li> <li>e. Goods on consignment account</li> <li>f. Preparation of account sales or statement of sales</li> <li>g. Explain the meaning of regulation</li> <li>h. Types of regulation {Statutory and Self regulation}</li> </ul>
3-4	JOINT VENTURE ACCOUNT	<ul style="list-style-type: none"> <li>a. Definition of joint venture</li> <li>b. Differences between joint venture and partnership</li> <li>c. Preparation joint venture account</li> <li>d. Venture account</li> <li>e. Memorandum account</li> <li>f. Treatments of remittance</li> </ul>
5-7	HIRE PURCHASE AND INSTALMENT ACCOUNTS	<ul style="list-style-type: none"> <li>a. Definition of terms</li> <li>b. Calculations of hire purchase interest</li> <li>c. Preparation of hire purchase accounts in sellers ledgers</li> <li>d. Hire purchase accounts in buyers ledgers</li> <li>e. Hire purchase suspense account</li> </ul>

#### CRS 1<sup>ST</sup> TERM SSS 3 SCHEME OF WORK

WEEK	TOPICS	CONTENT
1	PARABLES	PARABLES OF THE Kingdom of god a) The sower Matt 13: 1-23, Mark 4:1-29 b) The mustard seed matt 13; 31-32, Mk 4: 30-32, Luke 13; 18-19 c) the wheat and tare or the parable of the weeds Matt 13: 24-30, 36-43 d) The seed growing secretly mark 4; 26-29
2	THE PARABLES CONT	a) PARABLE ILLUSTRATING GOD'S LOVE i. The lost sheep matt 18: 12-14, Luke 15: 1-7 ii. The lost coin Luke 15: 8-10 iii. The prodigal son Luke 18: 11-32 b) PARABLE ILLUSTRATING CONCERN FOR ONE ANOTHER i. The good Samaritan Luke 10: 25-37 ii the rich man and Lazarus Lk 16; 19-31
3	SERMON ON THE MOUNT	THE DEMAND OF THE KINGDOM a) The beatitude Matt 5: 1-12 b) The disciples as Salt and light of the world matt 5: 13-16 c) The new law Matt 5:21-48

4	SERMON ON THE MOUNT	WORLDLY POSSESSION a) religious practices Matt 6:1-18 b) Treasures in Heaven Matt 6: 19-24 c) Divine providence matt 6.25-34
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### **SS3 FIRST TERM SCHEME OF WORK (GOVT)**

#### **1. Political Crisis in Nigeria**

##### **i. Kano Riot of 1953**

##### **ii. Census Crisis of 1962**

##### **iii. Why census figures are always inflated**

#### **2. The Action Group Crisis of 1963**

##### **i. Causes and Principal Actors in the Crisis**

##### **ii. Federal government intervention**

##### **iii. Political Implications**

#### **3. Electoral Crises in Nigeria.**

##### **i. The federal election crisis of 1964**

##### **ii. Western region election crisis in 1964**

##### **iii. General election crisis of 1979&1983**

##### **iv. Why elections are rigged**

#### **4. Kaduna State legislative/ Executive crisis of 1981**

##### **i. Impeachment of the state Governor**

##### **ii. Implication of the crisis in 1981**