CURRICULUM AND COURSE SPECIFICATIONS FOR DIPLOMA IN CHIROPRACTIC CARE

INTRODUCTION

In an era where musculoskeletal disorders, stress-related ailments, and lifestyle-induced health challenges are increasingly common, the demand for non-invasive, patient-centered, and evidence-informed care continues to rise. Chiropractic Medicine has emerged globally as a trusted, effective form of natural healthcare—especially for spinal, joint, and neuromuscular conditions.

Cyrillic College proudly presents a restructured and forward-looking **Diploma in Chiropractic Care**. This program is tailored to equip aspiring chiropractic practitioners with the academic knowledge, manual skills, and clinical experience to meet the health needs of today's society.

The original curriculum, introduced in 2021, served as a foundational training framework for natural medicine practitioners. However, recent shifts in global health policy, patient expectations, and professional standards have created the need for a modernized, integrated approach to chiropractic education.

A curriculum review committee—composed of educators, practicing chiropractors, and public health experts—was tasked with identifying key updates. Their findings revealed the need to:

- Enhance **clinical and diagnostic competencies**
- Integrate **spinal biomechanics, radiology, and imaging**
- Embed **public health, ethics, and digital literacy**
- Align the program with both **traditional healing wisdom** and **modern clinical practices**

The outcome is a robust, competency-based curriculum that blends foundational science with hands-on chiropractic technique and supervised clinical experience.

This program is designed to:

- Train skilled and ethical chiropractic professionals
- Promote spinal health and functional wellness in underserved communities
- Foster safe, effective, and evidence-based chiropractic care
- Integrate chiropractic services within broader healthcare systems

Graduates of this diploma will be equipped to:

- Assess and treat spinal and musculoskeletal conditions

- Utilize radiographic imaging and biomechanical analysis
- Collaborate across disciplines within natural and conventional medicine
- Practice legally, ethically, and professionally under Nigerian regulatory standards

The **Diploma in Chiropractic Care** marks a bold step toward building a new generation of spinal health experts who can transform lives—one adjustment at a time.

DANIEL OMISANDE

REGISTRAR

22, APRIL 2025.

ADMISSION REQUIREMENTS

PERSONAL QUALIFICATION

i) Physically and mentally fit.

ii) Able to communicate and work well with people in different settings

iii) Able to guide, supervise and give good leadership to his subordinates

iv) Be willing to live and work in the community

v) Mature, approachable, friendly and honest

vi) Able to work independently when necessary and make good judgment.

DURATION AND ENTRY QUALIFICATIONS

MODE OF STUDY	DURATION	ENTRY QUALIFICATIONS
ONLINE/ONSITE	12 MONTHS	5 Credits at O'Level including Mathematics and English Language

CERTIFICATE AWARDED

Diploma in Chiropractic Care

GENERAL INFORMATION

Structure of the Programme:

The Diploma in **Chiropractic Care** is a terminal programme structured to twelve (12) months (two semesters). Each semester shall comprise 16 contact weeks of structured academic activities, including lectures, practical exercises, quizzes, tests, and examinations. These programmes also incorporate mandatory periods of Supervised Clinical Experience (SCE), which serve to consolidate classroom learning with practical, real-world exposure.

Conditions for Award of Diploma:

The training institution shall award Diploma to students who successfully complete the full programme, including all prescribed coursework, examinations, the final project and the Supervised Clinical Experience (SCE).

GRADING SYSTEM

A standard **Five (5) Point Grading Scale** shall apply across all programs:

FOR ONSITE STUDY:

Score Range	Grade	Grade Point
70 – 100%	A	5.00
60 – 69%	B	4.00
50 – 59%	C	3.00
45 – 49%	D	2.00
40 – 44%	E	1.00
Below 40%	F	0.00

FOR ONLINE STUDY:

Score Range	Grade	Grade Point
90 – 100%	A	5.00
80 – 89%	B	4.00
70 – 79%	C	3.00
60 – 69%	D	2.00
50 – 59%	E	1.00
Below 50%	F	0.00

Classification of Diploma:

Distinction	-	CGPA of 3.5 – 4.00
Upper Credit	-	CGPA of 3.0 – 3.49
Lower Credit	-	CGPA of 2.5 – 2.99
Pass	-	CGPA of 2.5 – 2.99
Fail	-	CGPA of 2.5 – 2.99

CONTINUOUS ASSESSMENT POLICY

1. **Onsite Studies:** 30% of each course grade shall be from continuous assessment and 70% from end-of-semester examinations.
2. **Online Studies:** 50% of the course grade shall be assessed internally by lecturers ('INTERNALS'), and 50% externally through the examination administered by the college ('EXTERNALS').
3. Continuous assessments may include formal and informal tests, workshop evaluations, laboratory work, field assignments, presentations, and other discipline-relevant methods.
4. Colleges must maintain computer systems with appropriate software to manage assessment records.
5. Teaching standards and examination quality shall be monitored through student surveys and peer evaluation. Outcomes will be shared with lecturers for continuous improvement.

SEMESTER EXAMINATIONS

1. Onsite students shall write semester exams weighted at 70%, while online students will take 100-MCQ (Multiple Choice Question) exams worth 50% of the final score. Students will be evaluated on their practitioner-readiness.
2. A minimum score of 40% (aggregate of C.A. and exam) is required to pass any course.
3. Eligibility to sit for exams includes 75% class attendance, filled course forms, and complete registration.
4. Students without valid continuous assessment records or who fail to meet INTERNALS/CA will be denied access to EXTERNALS/Examinations.

RESIT EXAMINATIONS AND POLICY

1. **No resit is allowed within the same semester.**
2. **First resit attempt**: N5,000 per credit unit.
3. **Second resit attempt**: N7,500 per credit unit.
4. **Third and subsequent attempts**: N10,000 per credit unit and mandatory re-enrolment in the course.
5. All attempts and scores shall be recorded and visible on the student's academic transcript.
6. This system ensures responsibility, academic integrity, and supports institutional sustainability.

EXAMINATION CONDUCT

Rules apply to both onsite and online students. Highlights include:

1. Punctuality: 30-minute window before and after exam commencement.
2. Ban on unauthorized materials, exchange of papers, and electronic devices.
3. Mandatory presentation of ID, fee clearance, and proper exam registration.
4. No impersonation, no leakages, no external assistance.
5. Strict supervision and surveillance are mandatory for online exams.
6. All misconducts carry stiff penalties, including carry-overs/backlogs, suspension, or expulsion depending on severity and recurrence.

PENALTIES FOR MISCONDUCT

Examples include:

1. Possession of unauthorized materials: Repeat the year.
2. Impersonation, assault on invigilator, or exam leakages: Immediate expulsion.
3. Non-submission of scripts, absence without excuse, and plagiarism: Carry-over or project rewrite.
4. Recurrent cheating: Dismissal without re-admission.

SUPERVISED INDUSTRIAL/CLINICAL EXPERIENCE (SIE)

1. Duration: Minimum of **15 weeks** between sessions.
2. Minimum of **10 out of 15 weekly visits** required.
3. Visits must be to a **licensed practitioner** or institution.
4. A **reference letter** will be provided by the college.
5. At completion, students submit:
    - A **logbook** or evaluation sheet.
    - A letter of performance from the host institution.

GPA/CGPA CALCULATION

1. **GPA (Grade Point Average):**

   GPA = Total (Grade Point × Credit Unit) ÷ Total Credit Units Taken

2. **CGPA (Cumulative Grade Point Average):**

   CGPA = Sum of Grade Points × Credit Units × 0.8 ÷ Total Registered Credit Units

This formula provides a weighted measure of overall academic performance across the duration of study.

FIRST SEMESTER

CODE	COURSE	DURATION	UNITS
BMS 101	Introduction to Biomedical Sciences	90hrs	6
RES 101	Research Methodology	45hrs	3
IPH 101	Introduction to Public Health	45hrs	3
CHI 101	Principles, Philosophy and Practice of Chiropractic Care	45hrs	3
CHI 102	Applied Musculoskeletal Sciences	45hrs	3
CHI 103	Applied Neuroscience	45hrs	3
	TOTAL	315hrs	21

SECOND SEMESTER

CODE	COURSE	DURATION	UNITS
RES 201	Research Project	60hrs	3
SIWES 201	Supervised Industrial Work Experience Scheme (SIWES)	240hrs	4
CLI 201	Clinical Examinations and Diagnostics	45hrs	3
CIH 201	Ethical and Business Management Practices in Complementary and Integrative Healthcare	45hrs	3
CHI 201	Applied Biomechanics and Kinesiology	45hrs	3
CHI 202	Applied Radiology and Imaging	45hrs	3
CHI 203	Techniques of Chiropractic Care	90hrs	6
CHI 204	Ancillary Therapies related to Chiropractic Care	45hrs	3
	TOTAL	625hrs	28

COURSE TITLE	**INTRODUCTION TO BIOMEDICAL SCIENCES**
COUSRE CODE	**BMS 101**
DURATION	**90 HRS**
UNIT	**6.0**

GOAL:

This course provides a structured and clinically relevant foundation in biomedical sciences for students of complementary and integrative health sciences. It integrates core principles of anatomy, physiology, pathology, microbiology, biochemistry, nutrition, immunology, and pharmacology into a unified framework for understanding the human body in health and disease. Emphasis is placed not merely on knowledge acquisition, but on **clinical interpretation, patient safety, and responsible practice**. Students will develop the ability to recognize normal and abnormal processes, understand disease mechanisms, identify red flags, and apply biomedical reasoning within the scope of integrative healthcare. By the end of the course, students will possess the scientific literacy and clinical awareness required to engage safely, competently, and credibly in holistic health practice.

GENERAL OBJECTIVES:

1. Understand the scope and relevance of biomedical sciences in integrative healthcare practice.
2. Understand the structure and functional organization of the human body.
3. Understand fundamental mechanisms underlying health and disease.
4. Understand the role of microorganisms, immunity, and infection control in health.
5. Understand biochemical and nutritional principles governing body processes.
6. Understand the principles of pharmacology and safe therapeutic practice.
7. Apply biomedical knowledge in basic clinical reasoning, patient assessment, and decision-making.
8. Recognize red flag conditions and practice within safe professional limits.

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
1.0 Understand foundations of biomedical sciences	On completion of this course, the student be able to: 1.1 Define biomedical sciences and explain their role in healthcare. 1.2 Explain the relevance of biomedical sciences to complementary and integrative medicine. 1.3 Describe the levels of biological organization (cell, tissue, organ, system). 1.4 Define homeostasis and explain its importance in health. 1.5 Define disease and outline its general causes (genetic, environmental, infectious, lifestyle). 1.6 Explain the relationship between biomedical knowledge and patient safety. 1.7 Describe ethical and legal responsibilities in clinical practice. 1.8 Recognize the limits of practice and the importance of referral.
2.0 Understand the structure and function of the human body.	2.1 Describe the structure and function of major body systems: • Musculoskeletal • Cardiovascular • Respiratory • Digestive • Nervous • Endocrine • Urinary • Reproductive • Immune • Integumentary 2.2 Relate structure to function in each system. 2.3 Explain the following physiological processes

	(homeostasis, cell division, inflammation, cellular respiration, metabolism, circulation, respiration, digestion, absorption, hepatic metabolism, renal excretion, thermoregulation, immune response, inflammation, acid-base balance, fluid and electrolyte balance, endocrine signaling, neurotransmission, blood sugar balance and protein synthesis) 2.4 Identify signs of normal vs abnormal function. 2.5 Relate system function to common clinical presentations (e.g., breathlessness, pain, fatigue).
3.0 Understand the mechanisms of health and disease.	3.1 Define pathology and pathophysiology. 3.2 Describe cellular adaptations (atrophy, hypertrophy, hyperplasia, metaplasia). 3.3 Differentiate reversible and irreversible cell injury. 3.4 Explain necrosis and its types. 3.5 Explain inflammation: • Causes • Acute vs chronic • Clinical signs and implications 3.6 Describe wound healing and factors affecting healing. 3.7 Explain hemodynamic disorders: • Edema • Thrombosis • Embolism • Shock 3.8 Explain fluid, electrolyte, and acid-base imbalances.

	3.9 Describe basic genetic and congenital disorders. 3.10 Explain immunopathology: • Hypersensitivity • Autoimmune disorders • Immunodeficiency 3.11 Explain neoplasia: • Benign vs malignant • Carcinogenesis • Warning signs of cancer 3.12 Explain metabolic disorders with emphasis on diabetes mellitus. 3.13 Relate disease mechanisms to observable patient signs and symptoms. 3.14 Identify red flag conditions requiring urgent referral.
4.0 Understand microbiology, immunity and infection control.	4.1 Define microbiology and describe its relevance in healthcare. 4.2 Identify major groups of microorganisms and describe the nature of their infections: • Bacteria • Viruses • Fungi • Parasites 4.3 Explain modes of transmission of infections. 4.4 Describe host defense mechanisms and immune response. 4.5 Describe the following and their components: Innate immunity, adaptive immunity. Passive immunity, active immunity.

	4.6 Describe the components and mechanism of cell-mediated immunity and humoral immunity 4.7 Explain factors influencing susceptibility to infection. 4.8 Identify common infections and their basic clinical features. 4.9 Explain principles of infection prevention and control. 4.10 Apply standard precautions in clinical and therapeutic settings. 4.11 Recognize risks of contamination in herbal and clinical practice. 4.12 Explain the role of natural antimicrobial agents and probiotics.
5.0 Understand biochemistry, nutrition and metabolism.	5.1 Define biochemistry and its relevance to health. 5.2 Explain energy production and metabolism (ATP, basic pathways). 5.3 Describe carbohydrates, proteins, and lipids: • Functions • Digestion • Absorption • Metabolism • Clinical relevance • Sources 5.4 Explain vitamins and minerals: • Functions • Deficiencies and excesses • Clinical implications • Sources 5.5 Explain hormonal regulation of metabolism. 5.6 Describe oxidative stress and the role of antioxidants.

	5.7 Define nutrition and explain its relevance to integrative health care 5.8 Explain principles of balanced nutrition. 5.9 Apply basic nutritional assessment methods (BMI, waist circumference, MUAC, diet recall etc.). 5.10 Relate nutrition to disease prevention and integrative care.
6.0 Understand pharmacology, therapeutics and clinical safety	6.1 Define pharmacology and key terminologies. 6.2 Explain basic pharmacokinetics (absorption, distribution, metabolism, excretion). 6.3 Explain pharmacodynamics (mechanism of drug action). 6.4 Identify major drug classes and their general uses. 6.5 Explain adverse drug reactions and toxicity. 6.6 Discuss herb-drug and supplement-drug interactions. 6.7 Explain safe principles of dosage and administration. 6.8 Identify populations requiring special caution (children, elderly, pregnancy). 6.9 Apply pharmacovigilance principles in practice. 6.10 Recognize unsafe practices and contraindications in integrative care.
7.0 Understand Emergency Response	7.1 Describe Vital Signs and their physiological significance 7.2 Describe the following vital signs, their physiological significance, methods of measurement, normal and abnormal values Pulse rate, Blood pressure, Breathing rate, Pain, Oxygen saturation, Respiratory rate, Blood glucose level 7.3Recognize warning signs of serious conditions:

	• Severe infection • Respiratory distress • Cardiac events • Neurological emergencies 7.3 Explain Basic life support, advanced life support, pediatric life support, geriatric life support 7.4 Describe the components, indications, protocols, guidelines and precautions applicable to delivering the following: Basic life support, advanced life support, pediatric life support, geriatric life support
8.0 Understand Patient assessment, communication, health promotion, and application of findings	8.1 Conduct a basic health history interview, including main complaint, symptom analysis, and relevant background. 8.2 Demonstrate respectful, professional patient communication. 8.3 Explain determinants of health and preventive health measures. 8.4 Develop and deliver basic health education talks for individuals or groups. 8.5 Integrate biomedical, nutrition, and clinical observation findings to inform safe practice. 8.6 Identify when referral is necessary and act appropriately.

COURSE TITLE	**INTRODUCTION TO PUBLIC HEALTH**
COUSRE CODE	**IPH 101**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL:

This course introduces students to the principles and practice of public health, emphasizing health promotion, disease prevention, and community-level interventions relevant to Complementary and Integrative Healthcare (CIH).

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

1.0 Understand the concept, history, and scope of public health.

2.0 Understand determinants of health and disease.

3.0 Understand epidemiology and its application.

4.0 Understand the role of health education and promotion.

5.0 Understand environmental and occupational health.

6.0 Understand primary health care and community health services.

7.0 Understand the role of CIH in public health.

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
	On completion of this course, the student be able to:
1.0 Understand the concept, history, and scope of public health	1.1 Define public health. 1.2 Explain the goals and functions of public health. 1.3 Discuss the history of public health and its evolution.
2.0 Understand determinants of health and disease	2.1 Explain biological, environmental, social, and cultural determinants of health. 2.2 Discuss health inequalities and their impact. 2.3 Explain the concept of risk factors and protective factors.
3.0 Understand epidemiology and its application	3.1 Define epidemiology. 3.2 Describe measures of disease frequency (incidence, prevalence, mortality). 3.3 Explain epidemiological methods (descriptive, analytical, experimental). 3.4 Apply epidemiology to understanding disease prevention and health trends.
4.0 Understand the role of health education and promotion	4.1 Define health education and health promotion. 4.2 Discuss communication methods for health promotion. 4.3 Explain the importance of lifestyle modification in disease prevention.
5.0 Understand environmental and occupational health	5.1 Explain the impact of water, sanitation, and waste management on health. 5.2 Discuss air, soil, and food pollution and their health consequences.

	5.3 Explain occupational hazards and workplace health.
6.0 Understand primary health care and community health services	6.1 Define primary health care (PHC). 6.2 Explain principles of PHC. 6.3 Discuss community participation in health services. 6.4 Explain integration of CIH into primary health care.
7.0 Understand the role of CIH in public health	7.1 Discuss the contribution of complementary and integrative healthcare to health promotion. 7.2 Explain the role of CIH in preventing non-communicable diseases. 7.3 Discuss CIH interventions in maternal, child, and community health.

COURSE TITLE: **SUPERVISED INDUSTRIAL WORK**

EXPERIENCE SCHEME

COURSE CODE: **SIWES 201**

DURATION: **240 HRS**

UNIT: **4.0**

GOAL: This course is designed to introduce the student to field practical's in industrial settings.

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

1.0 Know what is required of them in industrial settings

2.0 Know how to carry out simple responsibilities in industrial settings

COURSE TITLE	**CLINICAL EXAMINATION AND DIAGNOSTICS**
COUSRE CODE	**CLI 201**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL:

This course equips students with the foundational knowledge and practical skills required for safe and structured clinical assessment within Complementary and Integrative Healthcare (CIH). It emphasizes systematic patient evaluation, clinical observation, basic diagnostic reasoning, and appropriate referral practices. Students will learn how to take a comprehensive patient history, perform basic physical examinations, interpret observable signs, and understand the role and limitations of laboratory and imaging investigations. The course prioritizes **clinical safety, professional boundaries, and responsible decision-making**, ensuring that students operate competently within their scope of practice. By the end of the course, students will be able to assess patients methodically, recognize patterns of illness, identify red flags, and communicate findings clearly and professionally.

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

1. Understand the principles, scope, and ethical responsibilities of clinical examination in CIH practice.
2. Conduct structured patient history taking and basic physical examination.
3. Apply standard clinical examination techniques and interpret findings at a basic level.
4. Understand the purpose, indications, and limitations of laboratory and imaging investigations.
5. Recognize clinical red flags and medical emergencies requiring referral.
6. Apply basic clinical reasoning in assessing patient conditions.
7. Document findings and communicate effectively with patients and other healthcare professionals.
8. Practice safely within defined professional limits.

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
1.0 Understand the principles and ethics of clinical examination	On completion of this course, the student be able to: 1.1 Define clinical examination, diagnosis, assessment, and clinical impression. 1.2 Differentiate between biomedical diagnosis and functional/integrative assessment. 1.3 Discuss the scope of practice of CIH practitioners. 1.4 Explain ethical principles including consent, confidentiality, and professionalism. 1.5 Explain medico-legal implications of improper assessment or delayed referral. 1.6 Identify situations where examination should be limited or avoided. 1.7 Describe the importance of referral culture in integrative healthcare practice.
2.0 Know how to take structured patient history	2.1 Explain the importance of patient history in diagnosis. 2.2 Conduct a structured consultation using a standard framework: • Patient identification and rapport building • Chief complaint • History of presenting illness (onset, duration, progression, severity) • Red flag screening • Past medical and surgical history • Drug, herbal, and supplement history • Family history • Social and lifestyle history

	2.3 Apply symptom analysis techniques (e.g., location, quality, triggers, relieving factors). 2.4 Incorporate integrative assessment perspectives (nutrition, lifestyle, stress, environment). 2.5 Apply basic traditional questioning methods (where appropriate). 2.6 Identify inconsistencies or gaps in patient history. 2.7 Document patient history clearly and accurately.
3.0 Understand physical examination techniques and clinical signs	3.1 Explain and demonstrate the four basic examination techniques: • Inspection • Palpation • Percussion • Auscultation 3.2 Measure and interpret vital signs: • Pulse • Blood pressure • Respiratory rate • Temperature • Oxygen saturation 3.3 Use basic clinical instruments (thermometer, sphygmomanometer, stethoscope). 3.4 Identify and interpret basic clinical signs: • Pallor, jaundice, cyanosis • Edema • Dehydration • Abnormal breathing patterns • Pain responses

	3.5 Perform basic system-focused examinations: • Cardiovascular • Respiratory • Abdominal • Musculoskeletal • Neurological (basic level) 3.6 Interpret simple clinical findings and relate them to possible conditions.
	4.1 Identify the following investigations: • Full blood count • Blood glucose • Lipid profile • Renal function test • Liver function test • Urinalysis • Blood pressure • Electrolyte panel • Malaria test • Pulse oximetry • Hemoglobin A1c (HbA1c) 4.2 Explain the purpose and basic interpretation of these tests. 4.3 Describe imaging modalities and their indications: • X-ray • Ultrasound • CT scan • MRI
4.0 Understand the use and interpretation of laboratory and imaging investigations	4.4 Explain indications and limitations of laboratory and imaging investigations.

	4.5 Recognize when tests are necessary or unnecessary. 4.6 Identify situations requiring referral for diagnostic confirmation. 4.7 Avoid over-interpretation beyond scope of practice.
5.0 Apply Clinical reasoning and symptom-based assessment	5.1 Explain the concept of clinical reasoning. 5.2 Apply symptom clustering to patient complaints. 5.3 Differentiate functional disturbances from pathological conditions. 5.4 Assess common presentations: • Fever • Headache • Fatigue • Pain (general and localized) • Digestive disturbances • Breathlessness 5.5 Formulate basic clinical impressions. 5.6 Decide on appropriate next steps: • Monitor • Support • Refer 5.7 Recognize uncertainty and act cautiously.
6.0 Apply red flags, emergencies, and referral protocols	6.1 Define red flags and medical emergencies. 6.2 Identify critical warning signs: • Chest pain • Sudden weakness or paralysis • Severe abdominal pain • Difficulty breathing

	• High fever with systemic symptoms • Uncontrolled bleeding 6.3 Recognize signs of: • Cardiovascular emergencies • Neurological emergencies • Severe infections • Metabolic crises 6.4 Explain immediate actions required in emergencies. 6.5 Apply referral protocols effectively. 6.6 Understand limits of CIH intervention in acute conditions.
7.0 Understand documentation, professional communication and case management	7.1 Document clinical findings using SOAP format. 7.2 Prepare referral notes and case summaries. 7.3 Communicate clearly with patients and caregivers. 7.4 Communicate effectively with other healthcare professionals. 7.5 Maintain accurate and confidential patient records. 7.6 Demonstrate professional conduct in clinical interactions.

COURSE TITLE	**RESEARCH METHODOLOGY**
COUSRE CODE	**RES 101**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL: This course is designed to equip the student with the knowledge and skills of research methodology to enable him/her to present research report.

GENERAL OBJECTIVES: At the end of this course the student should be able to:

1.0 Understand the concept, nature and importance of research.

2.0 Understand the concept of research methodology.

1.0 Know the methods of data collection

4.0 Understand methods of data analysis and presentation.

1.0 Understand the presentation of research report.

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
1.0 Understand the concept, nature and importance of research.	On completion of this course, the student should be able to: 1.1 Define research and explain its nature and importance. 1.2 Discuss various types of research (historical, experimental, descriptive, qualitative, and mixed methods). 1.3 Explain the role of research in CIH, clinical practice, and policy development.
2.0 Understand the concept of research methodology.	2.1 Define research methodology and distinguish it from research methods. 2.2 Explain the elements of a research design. 2.3 Enumerate the steps in the basic research process. 2.4 Discuss ethical considerations in research, including informed consent, confidentiality, and integrity.
3.0 Know the methods of data collection.	3.1 Define data and explain the difference between primary and secondary data. 3.2 Discuss qualitative data collection methods (observation, interviews, focus groups). 3.3 Discuss quantitative data collection methods (questionnaires, experiments, surveys). 3.4 Explain sampling and sampling techniques (probability and non-probability sampling).

4.0 Understand methods of data analysis and presentation.	4.1 Explain descriptive statistics (mean, median, mode, standard deviation, frequency distribution). 4.2 Discuss inferential statistics (parametric and non-parametric tests). 4.3 Explain qualitative data analysis techniques (thematic analysis, coding). 4.4 Demonstrate appropriate methods of presenting research findings (tables, charts, graphs, narrative).
5.0 Understand the presentation of research report.	5.1 Explain the general format of a research report: i. Preliminary pages (title page, acknowledgments, abstract, table of contents). ii. The main body (Chapters I–V: Introduction, Literature Review, Methodology, Results, Discussion/Conclusion). iii. References and appendices. 5.2 Discuss best practices for writing and presenting research work. 5.3 Explain plagiarism, referencing styles (APA, Vancouver, etc.), and academic integrity.

COURSE TITLE	**RESEARCH PROJECT**
COUSRE CODE	**RES 201**
DURATION	**45 HRS**
UNIT	**3**

GOALS: This course is designed to equip the student with the knowledge and ski to enable him/her carry out simple survey.

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

1.0 Understand how to write and present a research project on their discipline-related topics.

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
1.0 Understand how to write and present a research project on related topics.	On completion of this course, the student should be able to: 1.1 Use his knowledge in basic research methods to carry out and write a research project in the following presentation: A. Preliminaries: ix. Title page x. Approval I Certification page xi. Dedication page. xii.Acknowledgement xiii. Table of Content xiv. List of Tables xv. List of Figures xvi. Abstract G. Chapter One: Introduction including; background of the study, statement of the problem, purpose (or objective) of the study, significance of the study, research questions and/ or hypothesis (ses), Delimitation of the study, definition of terms (if any), etc. H. Chapter Two: Literature Review. I. Chapter Three: Research Methodology. J. Chapter Four: Data Presentation and Analysis. K. Chapter Five: Summary, Findings, Discussion of findings, Conclusion, Implications and Recommendations, Limitations of the study (if any), Suggestions for further studies. L. References (APA format is recommended). M. Appendix

COURSE TITLE	**ETHICAL AND BUSINESS MANAGEMENT PRACTICES IN COMPLEMENTARY AND INTEGRATIVE HEALTHCARE**
COUSRE CODE	**CIH 201**
DURATION	**45 HRS**
UNIT	**3**

GOALS: This course is designed to equip the student with the knowledge and skills required for establishing and managing a professional Complementary and Integrative Healthcare (CIH). Emphasis is placed on ethical conduct, regulatory compliance, business design, financial management, and patient-centered professionalism in line with Nigerian laws and global best practices.

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

1.0 Understand the principles of ethics in health care and their application to Complementary and Integrative healthcare.

2.0 Understand patient rights, autonomy, cultural and religious considerations in Complementary and Integrative healthcare.

3.0 Understand legal and regulatory frameworks guiding Complementary and Integrative healthcare in Nigeria.

4.0 Understand business design, types of business entities, and processes for establishing a Complementary and Integrative healthcare.

5.0 Understand financial management, taxation, and record-keeping requirements for small health businesses.

6.0 Understand marketing, branding, and professional reputation management in Complementary and Integrative healthcare.

7.0 Integrate ethical and business principles into sustainable Complementary and Integrative

healthcare.

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
	On completion of this course, the student be able to:
1.0 Understand the principles of ethics in health care and their application to CIH	1.1 Define ethics and medical ethics. 1.2 Discuss theories and principles of ethics (autonomy, beneficence, non-maleficence, justice). 1.3 Explain CIH-specific ethical issues such as consent, honesty, and confidentiality. 1.4 Describe codes of conduct for CIH practitioners.
2.0 Understand patient rights, autonomy, cultural and religious considerations in CIH practice	2.1 Define patient rights and autonomy in CIH. 2.2 Discuss respect for cultural and religious healing traditions. 2.3 Explain cultural competence and its relevance in Nigerian society.
3.0 Understand legal and regulatory frameworks guiding CIH in Nigeria	3.1 Identify relevant regulatory agencies (Federal Ministry of Health, Nigerian Council of Physicians of Natural Medicine, etc). 3.2 Describe licensing, certification, and accreditation requirements. 3.3 Discuss malpractice, liabilities, and penalties for misconduct. 3.4 Outline company and health practice laws relevant to CIH.
4.0 Understand business design, types of business entities, and processes for	4.1 Differentiate between sole proprietorship, partnership, and limited liability company.

establishing a Complementary and Integrative healthcare	4.2 Discuss the pros and cons of each structure for CIH practices. 4.3 Outline the process of CAC registration for a health business. 4.4 Explain the importance of business plans and strategic planning. 4.5 Discuss organizational structure and hierarchy within a Complementary and Integrative healthcare.
5.0 Understand financial management, taxation, and record-keeping requirements for small health businesses	5.1 Identify sources of start-up capital. 5.2 Explain Nigerian tax obligations (e.g. VAT, PAYE, Company Income Tax). 5.3 Demonstrate preparation of basic financial statements. 5.4 Discuss cost control, pricing of services, and break-even analysis. 5.5 Explain the importance of proper record-keeping and accounting in health businesses.
6.0 Understand marketing, branding, and professional reputation management in CIH	6.1 Define marketing and branding in the health sector. 6.2 Discuss ethical marketing and patient outreach. 6.3 Explain digital platforms (social media, websites) and their role in CIH visibility. 6.4 Highlight the risks of false claims and unethical advertising. 6.5 Discuss strategies for building patient trust and long-term loyalty.
7.0 Integrate ethical and business principles into sustainable CIH practice	7.1 Develop a business and ethical code of conduct for a hypothetical CIH practice.

	7.2 Present a model clinic design incorporating legal, ethical, and business requirements. 7.3 Evaluate case studies of ethical and unethical business practices in CIH.

COURSE TITLE	**PRINCIPLES, PHILOSOPHY AND PRACTICE OF CHIROPRACTIC CARE**
COUSRE CODE	**CHI 101**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL: This course introduces students to the origin, principles, philosophy, and professional practice of chiropractic care. It provides an understanding of the body as a self-healing organism, emphasizing the spine's central role in health, the relationship between structure and function, and the application of manual techniques to restore physiological balance. The course also aims to cultivate appreciation for chiropractic's historical roots, modern scientific validation, and its integration within holistic and complementary healthcare systems.

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

1.0 Understand the Concept and Origin of Chiropractic Care.

2.0 Understand the Core Principles of Chiropractic.

3.0 Understand the Philosophical Foundations of Chiropractic Practice.

4.0 Understand the Scientific Theories Underpinning Chiropractic and Spinal Care.

5.0 Understand the Techniques, Approaches, and Scope of Practice.

6.0 Understand Chiropractic within Holistic Health Care.

7.0 Understand Research and Evidence-Based Practice in Chiropractic practice.

8.0 Understand Case Studies and Practical Applications in Chiropractic.

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
1.0 UNDERSTAND THE CONCEPT AND ORIGIN OF CHIROPRACTIC CARE	On completion of this course, the student be able to: 1.1 Define *chiropractic care*, and *chiropractor*. 1.2 Discuss the history of spinal manipulation across civilizations and its evolution into modern chiropractic. 1.3 Trace the emergence of spinal Adjustment therapy as a clinical adaptation of chiropractic principles. 1.4 Explain the development of chiropractic philosophies and their relationship to other manual healing traditions.
2.0 UNDERSTAND THE CORE PRINCIPLES OF CHIROPRACTIC	2.1Differentiate between *vitalistic* and *mechanistic* perspectives of health. 2.2 Define and explain the concept of **vertebral subluxation** and its physiological implications. 2.3 Describe the principle of **innate intelligence** and the body's self-healing capacity. 2.4 Explain how spinal Adjustment affects the nervous system, posture, and general wellness.
3.0 UNDERSTAND THE PHILOSOPHICAL FOUNDATIONS OF CHIROPRACTIC PRACTICE	3.1 Explain the philosophical concepts of *health*, *disease*, and *healing* within chiropractic philosophy.

	3.2 Differentiate between *holistic* and *reductionist* approaches to health. 3.3 Describe the concept of *mind-body integration* and its relevance to chiropractic. 3.4 Discuss the ethical and humanistic values guiding chiropractic care.
4.0 UNDERSTAND THE SCIENTIFIC THEORIES UNDERPINNING CHIROPRACTIC CARE	4.1 Define **biomechanics** and explain its importance in understanding spinal function. 4.2 Explain the neurophysiological basis of chiropractic adjustments. 4.3 Discuss theories of neuromechanical and musculoskeletal dysfunction. 4.4 Explain how modern research supports chiropractic and adjustment techniques. 4.5 Emphasize the balance between scientific validation and traditional wisdom in chiropractic philosophy.
5.0 UNDERSTAND TECHNIQUES, APPROACHES, AND SCOPE OF PRACTICE	5.1 Identify the major chiropractic and Adjustment techniques and their general applications. 5.2 Explain the difference between **mobilization** and **manipulation**. 5.4 Discuss the significance of posture, ergonomics, and patient-centered care.

	5.5 Describe the general procedure of evaluation and adjustment (non-invasive techniques). 5.6 Explain the ethical scope and limits of chiropractic therapy practice.
6.0 UNDERSTAND CHIROPRACTIC IN HOLISTIC HEALTH CARE	6.1 Describe integrative health models and the role of chiropractors within them. 6.2 Discuss the benefits of collaborative care between chiropractic practitioners and other health professionals. 6.3 Explain how spinal health supports wellness, energy balance, and nervous system integrity. 6.4 Highlight the preventive and rehabilitative value of chiropractic care in holistic medicine.
7.0 UNDERSTAND RESEARCH AND EVIDENCE-BASED PRACTICE IN CHIROPRACTIC MEDICINE	7.1 Discuss the importance of research in validating chiropractic practices. 7.2 Explain the principles of **evidence-based practice (EBP)** and its application in spinal health care. 7.3 Describe types of research used in chiropractic medicine. 7.4 Analyze selected studies demonstrating outcomes of spinal manipulation therapy.

	7.5 Discuss challenges, controversies, and emerging directions in chiropractic research.
8.0 UNDERSTAND CASE STUDIES AND PRACTICAL APPLICATIONS	8.1 Review real-world clinical cases demonstrating chiropractic principles in action. 8.2 Apply learned principles to patient assessment, spinal analysis, and treatment planning. 8.3 Discuss reflective practice and the development of a personal philosophy of healing. 8.4 Demonstrate awareness of patient communication, consent, and professional ethics in practice.

COURSE TITLE	**APPLIED MUSCULOSKELETAL SCIENCES**
COUSRE CODE	**CHI 102**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL:

This course introduces students to the musculoskeletal (MSK) system as an integrated biological and functional system essential to chiropractic and musculoskeletal care. Emphasis is placed on understanding the structure, behavior, and interaction of musculoskeletal tissues, joints, and movement systems, using the spine as the central reference point.

The course provides foundational musculoskeletal literacy that prepares students for subsequent studies in biomechanics, kinesiology, neuroscience, diagnostic assessment, and chiropractic techniques. By the end of the course, students will be able to conceptualize common musculoskeletal dysfunction patterns, appreciate mechanisms of injury and adaptation, recognize red flags, and apply sound musculoskeletal reasoning within the ethical scope of chiropractic care.

GENERAL OBJECTIVES:

1.0 Understand the musculoskeletal system as an integrated structure–function system

2.0 Understand the basic structure and behavior of musculoskeletal tissues

3.0 Understand joint systems and fundamental movement behavior

4.0 Understand the spine as the central axis of musculoskeletal function

5.0 Understand regional interdependence between the spine and extremities

6.0 Understand basic mechanisms of musculoskeletal injury, adaptation, and degeneration

7.0 Recognize musculoskeletal red flags and limits of chiropractic care

8.0 Develop foundational musculoskeletal reasoning for later clinical and biomechanical training

GENERAL OBJECTIVES	PERFORMANCE OBJECTIVES
1.0 Understand the Musculoskeletal System	On completion of this course, the student be able to: 1.1 Define the musculoskeletal system and its components 1.2 Explain the role of the MSK system in posture, movement, and functional activity 1.3 Discuss the relevance of musculoskeletal sciences to chiropractic care 1.4 Describe the relationship between structure, function, and dysfunction 1.5 Explain the concept of musculoskeletal health and dysfunction
2.0 Understand Musculoskeletal Tissues, Structure and Functional Behavior	2.1 Identify and describe the basic structure and function of: • Muscle • Tendon • Ligament • Fascia • Cartilage • Bone

	2.2 Explain the functional roles of different tissues in movement and stability 2.3 Describe tissue response to mechanical stress and loading 2.4 Differentiate tissue adaptation, overload, and underuse 2.5 Explain basic principles of tissue healing and repair 2.6 Relate tissue behavior to musculoskeletal pain and dysfunction
3.0 Understand Joint Systems and Fundamental Movement Concepts	3.1 Define joints and classify joint types (fibrous, cartilaginous, synovial) 3.2 Explain the functional purpose of joints in movement systems 3.3 Differentiate between: • Mobility • Stability • Controlled movement 3.4 Define and explain:

	• Hypomobility • Hypermobility • Joint instability 3.5 Introduce the concepts of joint play and movement restriction 3.6 Explain how joint dysfunction alters normal movement patterns
4.0 Understand The Spine as the Central Axis of Musculoskeletal Function	4.1 Explain why the spine is central to musculoskeletal and postural control 4.2 Describe the general structure and regional organization of the spine 4.3 Explain the functional roles of the: • Cervical spine • Thoracic spine • Lumbar spine • Pelvis 4.4 Describe spinal curves and their functional significance 4.5 Relate spinal dysfunction to posture and extremity complaints

	4.6 Identify common spinal musculoskeletal dysfunction patterns
5.0 Understand Regional Interdependence and Movement Integration	5.1 Define the concept of regional interdependence 5.2 Explain how dysfunction in one region affects other body regions 5.3 Describe functional relationships between: • Cervical spine and shoulder complex • Thoracic spine and upper limb function • Lumbar spine, pelvis, hip, and lower limb 5.4 Explain how extremity dysfunction may contribute to spinal stress 5.5 Introduce the concept of movement chains and compensation 5.6 Apply regional interdependence concepts to basic musculoskeletal reasoning
6.0 Understand Mechanisms of Musculoskeletal Injury, Adaptation, and Degeneration	6.1 Explain basic mechanisms of musculoskeletal injury, including: • Sprains • Strains

	• Overuse injuries 6.2 Differentiate between: • Acute conditions • Subacute conditions • Chronic conditions 6.3 Explain repetitive stress, microtrauma, and cumulative loading 6.4 Describe basic degenerative changes affecting joints and soft tissues 6.5 Relate posture, occupation, lifestyle, and activity patterns to MSK degeneration
7.0 Understand Musculoskeletal Pain, Red Flags, and Scope Awareness	7.1 Define musculoskeletal pain and introduce mechanical vs non-mechanical pain 7.2 Identify basic musculoskeletal red flags suggestive of: • Fracture • Infection • Inflammatory disease • Malignancy

	• Severe trauma 7.3 Explain the importance of early recognition and referral 7.4 Identify absolute and relative contraindications to chiropractic manipulation 7.5 Explain ethical responsibilities and scope limitations in chiropractic care
8.0 Apply Musculoskeletal Sciences to Clinical Reasoning in Chiropractic Care	8.1 Integrate musculoskeletal findings with biomechanical and neurological information 8.2 Interpret movement dysfunction and compensatory patterns 8.3 Correlate patient history with musculoskeletal examination findings 8.4 Apply musculoskeletal science principles to safe clinical decision-making 8.5 Demonstrate awareness of professional scope, limitations, and patient safety 8.6 Apply musculoskeletal reasoning to conservative management planning

9.0 Understand Foundations of Musculoskeletal Reasoning	9.1 Explain the purpose of musculoskeletal assessment and clinical reasoning 9.2 Describe how tissue behavior, joint function, and movement patterns interact 9.3 Correlate basic patient complaints with possible musculoskeletal sources 9.4 Apply musculoskeletal science concepts to simple case scenarios 9.5 Demonstrate readiness for advanced study in biomechanics, kinesiology, diagnostics, and chiropractic techniques

COURSE TITLE	**APPLIED BIOMECHANICS AND KINESIOLOGY**
COUSRE CODE	**CHI 104**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL: This course equips students with a functional understanding of biomechanics and kinesiology as applied to the musculoskeletal system, using the spine as a central reference while extending analysis to the upper and lower extremities. Emphasis is placed on movement analysis, load management, posture, injury mechanisms, and clinical reasoning relevant to chiropractic and musculoskeletal care.

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

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

1.0 Understand core principles of biomechanics and kinesiology as applied to the spine and MSK system as a whole

2.0 Understand spinal biomechanics as a model for movement and load transfer

3.0 Understand biomechanics of the upper and lower extremities

4.0 Understand posture, gait, and functional movement patterns

5.0 Understand mechanisms of musculoskeletal injury and dysfunction

6.0 Apply biomechanical reasoning to clinical assessment and care planning

UNITS	PERFORMANCE OBJECTIVES
1.0 Understand Principles of Biomechanics	On completion of this course, the student be able to: 1.1 Define biomechanics, kinesiology, functional anatomy, and pathomechanics 1.2 Explain Newton's laws in relation to human movement. 1.3 Explain motion, force, torque, levers system, moments, center of gravity and load 1.4 Differentiate static and dynamic biomechanics. 1.5 Explain stress, strain, elasticity, and viscoelasticity in tissues. 1.6 Describe tissue response to mechanical stress 1.7 Relate biomechanics to injury prevention and rehabilitation
2.0 Understand Spinal Biomechanics as a Model System	2.1 Define a vertebra 2.2 Describe the features and components of a typical vertebra 2.3 Explain the vertebral column and its general functions 2.4 Describe the structure and regional organization of the vertebral column 2.5 Explain normal spinal curvatures and their functional significance

	2.6 Explain load transmission and load distribution through the vertebral column 2.7 Describe intervertebral joints and intervertebral discs 2.8 Explain disc mechanics and facet joint biomechanics 2.9 Describe the ligaments of the vertebral column and their biomechanical roles 2.10 Explain the different movements of the spine 2.11 Describe segmental spinal motion (flexion, extension, rotation, lateral flexion) 2.12 Explain coupling mechanics in the cervical, thoracic, and lumbar spine 2.13 Explain the biomechanics of the sacroiliac joint 2.14 List the muscles of the spine and describe their functions 2.15 Explain spinal stability and the role of core musculature 2.16 Explain the mechanisms of neural control of spinal movement 2.17 Relate spinal mechanics to posture and movement efficiency 2.18 Identify and describe common biomechanical dysfunctions of the spine (hypomobility, hypermobility)

3.0 Understand Upper Limb Biomechanics	3.1 Describe biomechanics of the shoulder complex (scapulohumeral rhythm) 3.2 Explain elbow and wrist mechanics during functional tasks 3.3 Discuss load transfer from upper limb to cervical and thoracic spine 3.4 Identify common biomechanical contributors to shoulder and elbow dysfunction
4.0 Understand Lower Limb Biomechanics	4.1 Describe biomechanics of the hip, knee, ankle, and foot 4.2 Explain pelvic–lumbar–hip interaction and pelvic stability 4.3 Discuss lower limb loading during standing, walking, and lifting 4.4 Identify biomechanical factors contributing to knee and foot disorders 4.5 Explain foot arches and gait biomechanics.
5.0 Understand Posture, Gait, and Functional Movement	5.1 Define normal and postural deviations 5.2 Perform static posture analysis 5.3 Explain effects of prolonged sitting, standing, and lifting 5.4 Describe gait cycle phases and common gait deviations 5.5 Perform basic gait analysis 5.6 Identify muscle imbalance patterns. 5.7 Discuss occupational and ergonomic biomechanics
6.0 Understand Forces, Injury Mechanics and Overuse Syndromes	6.1 Explain compressive, tensile, and shear forces. 6.2 Explain mechanisms of sprains, strains, and tendinopathies 6.3 Describe repetitive stress and microtrauma 6.4 Explain whiplash biomechanics.

	6.5 Discuss acute vs chronic musculoskeletal loading 6.6 Relate biomechanical errors to injury development 6.7 Discuss occupational loading patterns. 6.8 Relate biomechanics to degenerative joint disease.
7.0 Appy Clinical Biomechanics	7.1 Apply biomechanical principles to chiropractic patient assessment 7.2 Interpret movement and motion dysfunctions 7.3 Correlate motion restriction with joint dysfunction 7.4 Identify appropriate adjustment vectors based on joint mechanics 7.5 Explain the biomechanical principles of preload, thrust, and line of drive 7.6 Identify contraindications and precautions to spinal manipulation 7.7 Integrate biomechanical analysis into chiropractic case evaluation 7.8 Apply biomechanics to conservative management planning 7.9 Discuss professional scope, limitations, and referral considerations in chiropractic practice

COURSE TITLE	**APPLIED NEUROSCIENCE**
COUSRE CODE	**CHI 103**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL: This course provides students with an applied understanding of neuroscience relevant to musculoskeletal movement, pain, and function. Emphasis is placed on neural control of movement, pain modulation, proprioception, peripheral nerve involvement, and neurological red flags within the ethical scope of chiropractic and musculoskeletal care.

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

1.0 Understand neural control of movement and posture

2.0 Understand spinal and peripheral nervous system involvement in MSK function

3.0 Understand pain mechanisms relevant to musculoskeletal care

4.0 Understand proprioception, motor control, and adaptation

5.0 Recognize neurological red flags and referral indications

6.0 Apply neuroscience principles to safe chiropractic practice

UNITS	PERFORMANCE OBJECTIVES
1.0 Understand Neuroscience	On completion of this course, the student be able to: 1.1 Explain neuroscience and its relevance to chiropractic practice 1.2 Describe neuron structure, glial cells, and neural communication 1.3 Explain synaptic transmission 1.4 Describe action potentials and nerve conduction 1.5 Differentiate the roles of the central and peripheral nervous systems in movement 1.6 Relate nervous system function to musculoskeletal health
2.0 Understand Spinal Cord Anatomy and Segmental Organization	2.1 Describe the gross anatomy of the spinal cord 2.2 Identify the cervical, thoracic, lumbar, and sacral spinal cord segments 2.3 Explain spinal nerve organization 2.4 Describe dermatomes and myotomes 2.5 Relate nerve root compression to clinical symptoms

	2.6 Discuss referred pain patterns 2.7 Relate segmental innervation to clinical findings 2.8 Explain upper versus lower motor neuron lesions
3.0 Understand Peripheral Nervous System and MSK Dysfunction	3.1 Describe peripheral nerve anatomy and function 3.2 Describe the anatomy and clinical relevance of the brachial plexus 3.3 Describe the anatomy and clinical relevance of the lumbosacral plexus 3.4 Explain nerve entrapment and compression syndromes (e.g., carpal tunnel syndrome, sciatica) 3.5 Differentiate radiculopathy from peripheral neuropathy 3.6 Explain classifications of nerve injury (neuropraxia, axonotmesis, neurotmesis) 3.7 Identify clinical features and red flags requiring referral
4.0 Understand Pain Neuroscience	4.1 Define pain and nociception 4.2 Explain pain pathways (spinothalamic tract). 4.3 Differentiate acute and chronic pain

	4.4 Differentiate between slow and fast pain 4.5 Explain central sensitization 4.6 Discuss referred pain mechanisms. 4.7 Explain gate control theory of pain. 4.8 Discuss psychological and contextual influences on pain 4.9 Apply pain neuroscience principles to patient education
5.0 Understand Proprioception, Motor Control, and Reflex Function	5.1 Define proprioception and kinesthetic awareness 5.2 Define the reflex arc 5.3 Explain motor control mechanisms 5.4 Explain muscle tone and motor unit recruitment 5.5 Discuss motor learning and neuroplasticity 5.6 Explain coordination and cerebellar function 5.7 Differentiate upper motor neuron (UMN) and lower motor neuron (LMN) signs 5.8 Demonstrate and interpret deep tendon reflex testing 5.9 Relate proprioception to balance, posture, and rehabilitation

6.0 Understand Autonomic Nervous System	6.1 Differentiate sympathetic and parasympathetic systems. 6.2 Explain autonomic regulation of heart rate, digestion, and blood pressure. 6.3 Discuss stress physiology and neuroendocrine responses. 6.4 Relate spinal segments to autonomic outflow.
7.0 Understand Clinical Application in Musculoskeletal Care	7.1 Apply neuroscience concepts to musculoskeletal assessment 7.2 Perform basic neurological examination, including dermatomes and myotomes 7.3 Perform sensory and motor screening 7.4 Interpret neurological findings in the context of patient presentation 7.5 Integrate neurological, biomechanical, and pain assessment findings 7.6 Discuss the limits of chiropractic intervention based on neurological findings 7.7 Demonstrate safe, patient-centered clinical reasoning and management planning
8.0 Understand Neurological Red Flags, Emergencies, and Referral	8.1 Identify symptoms and clinical features of serious neurological pathology 8.2 Recognize signs of spinal cord involvement 8.3 Differentiate cauda equina syndrome and upper motor neuron signs

	8.4 Identify warning signs of cerebrovascular accident (stroke) 8.5 Recognize progressive or rapidly worsening neurological deficits 8.6 Emphasize ethical responsibility, documentation, and referral protocols

COURSE TITLE	**APPLIED RADIOLOGY AND DIAGNOSTIC IMAGING**
COUSRE CODE	**CHI 202**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL: To equip students with foundational knowledge of diagnostic imaging modalities**,** safe interpretation of musculoskeletal images**,** and clinical decision-making skills necessary for screening, referral, and contraindication assessment within chiropractic practice.

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

1.0 Understand basic principles of radiology and radiation safety.

2.0 Identify normal musculoskeletal radiographic anatomy (spine and extremities).

3.0 Recognize common musculoskeletal pathologies on plain radiographs.

4.0 Understand indications and limitations of MRI, CT, and ultrasound.

5.0 Identify imaging red flags and contraindications to chiropractic manipulation.

6.0 Apply imaging knowledge to ethical, safe, and effective chiropractic care.

UNITS	PERFORMANCE OBJECTIVES
1.0 UNDERSTAND PRINCIPLES OF RADIOLOGY AND IMAGING SAFETY	On completion of this course, the student be able to: 1.1 Explain how X-rays are produced 1.2 Define ionizing vs non-ionizing radiation 1.3 Explain radiation risks and biological effects 1.4 Describe ALARA principle and radiation protection 1.5 Identify basic radiographic views (AP, lateral, oblique, special views) 1.6 Discuss ethical responsibilities in imaging requests
2.0 UNDERSTAND IMAGING MODALITIES IN CHIROPRACTIC PRACTICE	2.1 Describe principles, uses, and limitations of: • X-ray • CT • MRI • Ultrasound

	2.2 Identify indications for each modality in musculoskeletal care 2.3 Understand when imaging is unnecessary or contraindicated 2.4 Recognize the chiropractor's role in imaging referral.
3.0 UNDERSTAND NORMAL MUSCULOSKELETAL RADIOGRAPHIC ANATOMY	3.1 Identify normal spinal anatomy on X-ray 3.2 Identify normal alignment and curvatures 3.3 Identify pelvis and sacroiliac joints 3.4 Identify major joints: • Shoulder • Hip • Knee • Ankle 3.5 Identify normal bone density and joint spaces
4.0 UNDERSTAND COMMON MUSCULOSKELETAL PATHOLOGIES	

	4.1 Degenerative changes (osteoarthritis, spondylosis) 4.2 Disc-related changes (narrowing, degeneration) 4.3 Fractures and stress injuries 4.4 Osteoporosis and bone density loss 4.5 Postural and alignment abnormalities (scoliosis, kyphosis)
5.0 UNDERSTAND RED FLAGS, PATHOLOGY & REFERRAL INDICATORS	5.1 Identify imaging signs suggestive of: • Infection • Inflammatory disease • Tumors (warning signs only) • Severe trauma 5.2 Recognize absolute contraindications to manipulation 5.3 Recognize relative contraindications 5.4 Decide when immediate referral is required

6.0 UNDERSTAND ADVANCED IMAGING IN SPINE & JOINT CARE	6.1 Describe the principles of MRI 6.2 Describe the principles of CT 6.3 Identify common MRI findings: • Disc herniation • Spinal stenosis 6.4 Discuss imaging limitations and false positives
7.0 UNDERSTAND CLINICAL APPLICATION IN CHIROPRACTIC PRACTICE	7.1 Correlate imaging findings with history and physical examination 7.2 Interpret imaging reports 7.3 Apply imaging findings to treatment planning 7.4 Understand documentation and referral communication 7.5 Appreciate the limits of imaging and importance of clinical judgment

COURSE TITLE	**TECHNIQUES OF CHIROPRACTIC CARE**
COUSRE CODE	**CHI 203**
DURATION	**90 HRS**
UNIT	**6.0**

GOAL: This course is designed to expose the student to the fundamental and advanced techniques applied in chiropractic care. It emphasizes the art and science of spinal and extremity adjustments, biomechanical reasoning behind manipulative therapy, and evidence-based clinical practice. The course prepares students to apply safe, effective, and ethical chiropractic interventions in alignment with holistic healing principles.

GENERAL OBJECTIVES: At the end of this course, the student should be able:

1.0 Understand Spinal Adjustments

2.0 Understand Extremities Adjustments

3.0 Understand Evidence-Based Practice and Research in Chiropractic Care

UNITS	PERFORMANCE OBJECTIVES
	On completion of this course, the student be able to:
1.0 Understand Spinal Adjustments	1.1 Define Spinal adjustments. Explain the benefits of spinal adjustments 1.2 Differentiate between Mobilization and Manipulation 1.3 Describe the following spinal adjustment techniques, outlining the principles, procedures, indications, contraindications, and benefits of each: Prone thoracic adjustment Supine thoracic adjustment Sacro-occipital technique Blocking and pelvic balancing Flexion-Distraction Technique 1.4 Explain clinical reasoning for selecting specific adjustment methods for different spinal regions and pathomechanical patterns. 1.5 Describe post-adjustment responses and patient care considerations following spinal manipulative therapy.
2.0 Understand Extremities Adjustments	2.1 Define extremety adjustments. Explain the benefits of extremety adjustments 2.2 Describe the following extremety and joint adjustment techniques based on principles, procedures, benefits and risks, indications and contraindications Glenohumeral Distraction Anterior or Posterior Glide Adjustment Ulnar-Humeral Joint Mobilization Hip Distraction (Long-Axis Traction) Internal/External Rotation Mobilization Patellar Mobilization Metatarsal & Toe Adjustments

	2.3 Explain the biomechanical relationship between extremity misalignments and spinal dysfunctions. 2.4 Discuss precautions, safety protocols, and contraindications for extremity manipulations. 2.5 Demonstrate understanding of patient positioning, practitioner ergonomics, and manual control during adjustments.
3.0 Evidence-Based Practice and Research in Chiropractic Care	3.1 Discuss the significance of evidence based practices in chiropractice 3.2 Describe different types of research and discuss hierarchy of evidences in chiropractice research 3.3 Discuss recent findings in chiropractic and manual therapy research with emphasis on clinical outcomes, safety, and biomechanics. 3.4 Analyze selected **case studies** demonstrating clinical reasoning and application of chiropractic techniques. 3.5 Discuss common **controversies and challenges** in chiropractic research, including integration within multidisciplinary care. 3.6 Explore **future directions** and technological innovations influencing chiropractic science, such as motion analysis, neuromechanical assessment, and digital posture evaluation.
4.0 Apply Case-Based Clinical Reasoning	**4.1** Analyze simple case scenarios **4.2** Identify appropriate therapeutic goals **4.3** Develop safe and structured treatment plans **4.4** Justify treatment decisions based on clinical reasoning **4.5** Identify when not to treat and refer appropriately

COURSE TITLE	**ANCILLARY THERAPIES RELATED TO CHIROPRACTIC CARE**
COUSRE CODE	**CHI 204**
DURATION	**45 HRS**
UNIT	**3.0**

GOAL: To expand the student's understanding of various physical, manual, and integrative therapeutic modalities that complement chiropractic practice. The course introduces supportive treatments that enhance musculoskeletal recovery, optimize patient outcomes, and strengthen the holistic approach central to chiropractic care.

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

1.0 Understand Ancillary Therapies.

2.0 Understand Physiotherapy Modalities.

3.0 Understand Manual Therapies.

4.0 Understand Exercise Rehabilitation and Strength Training.

5.0 Understand Kinesiology and Taping Techniques.

6.0 Understand Lifestyle and Nutritional Support.

7.0 Understand Complementary Therapies.

8.0 Understand Patient Education and Preventive Care.

UNITS	PERFORMANCE OBJECTIVES
1.0 Understand Ancillary Therapies	On completion of this course, the student be able to: 1.1 Define ancillary therapies and explain their scope and relevance in chiropractic care. 1.2 Discuss the integration of supportive therapies in improving musculoskeletal health. 1.3 Highlight the importance of complementary modalities in achieving long-term patient wellness.
2.0 Understand Physiotherapy Modalities	2.1 Define physiotherapy and describe its relationship with chiropractic care. 2.2 List common physiotherapy modalities and their therapeutic benefits. 2.3 Define electrotherapy and list its types and applications. 2.4 Discuss the indications, contraindications, and physiological principles behind: **Thermotherapy** **Cryotherapy** 2.5 Explain safety protocols in physical therapy practice.
3.0 Understand Manual Therapies	3.1 Define and explain **Myofascial Release (MFR)** and describe the role of fascia in musculoskeletal health. 3.2 Describe major myofascial release techniques, their procedures, indications, benefits, and

	contraindications. 3.3 Explain **Massage Therapy** and differentiate between classical and clinical approaches. 3.4 Describe common massage techniques (effleurage, petrissage, deep tissue, trigger point, lymphatic drainage) and their applications. 3.5 Define and explain **Stretching and Mobilization**, outlining their physiological effects, techniques, and safety precautions. 3.6 Discuss the integrative role of manual therapies alongside chiropractic care in restoring mobility, circulation, and alignment.
4.0 Understand Exercise Rehabilitation and Strength Training	4.1 Discuss the importance of exercise in chiropractic management plans. 4.2 Describe the design and components of an effective spinal rehabilitation program. 4.3 Explain the following with procedures, benefits, and contraindications: Core stabilization exercises Functional movement screening Resistance training and neuromuscular re-education Balance and proprioception training 4.4 Relate rehabilitation exercises to functional restoration, postural correction, and injury prevention.
5.0 Understand Kinesiology and Taping Techniques	5.1 Discuss the significance of kinesiology and explain its significance in chiropractic and sports medicine.
	5.2 Describe the principles and techniques of **Kinesio Taping**. 5.3 Discuss how taping supports muscle function, joint stability, and pain modulation. 5.4 Highlight common taping methods for musculoskeletal injuries (e.g., shoulder, knee,

	lumbar spine).
6.0 Understand Lifestyle and Nutritional Support	6.1 Discuss the role of nutrition in musculoskeletal health and spinal health 6.2 Describe **anti-inflammatory diets** and their relevance in chronic pain management. 6.3 Highlight key supplements beneficial to bone, joint, and muscle health. 6.4 Describe strategies for posture correction, ergonomic living, and spinal self-care.
7.0 Understand Complementary Therapies	7.1 Explain the relevance of integrating complementary therapies into chiropractic care. 7.2 Describe the following modalities, their principles, and therapeutic applications: Acupuncture and Dry Needling Cupping Therapy Hydrotherapy and Aquatic Therapy Aromatherapy and Essential Oils 7.3 Discuss the synergistic benefits of combining these therapies with spinal adjustments for holistic healing.
8.0 Understand Patient Education and Preventive Care	8.1 Define patient compliance and explain its importance in long-term recovery. 8.2 Describe methods for promoting self-care and preventive spinal health. 8.3 Discuss ergonomic education, lifestyle counseling, and home-based corrective strategies. 8.4 Emphasize the chiropractor's role in guiding patients toward sustainable wellness practices.