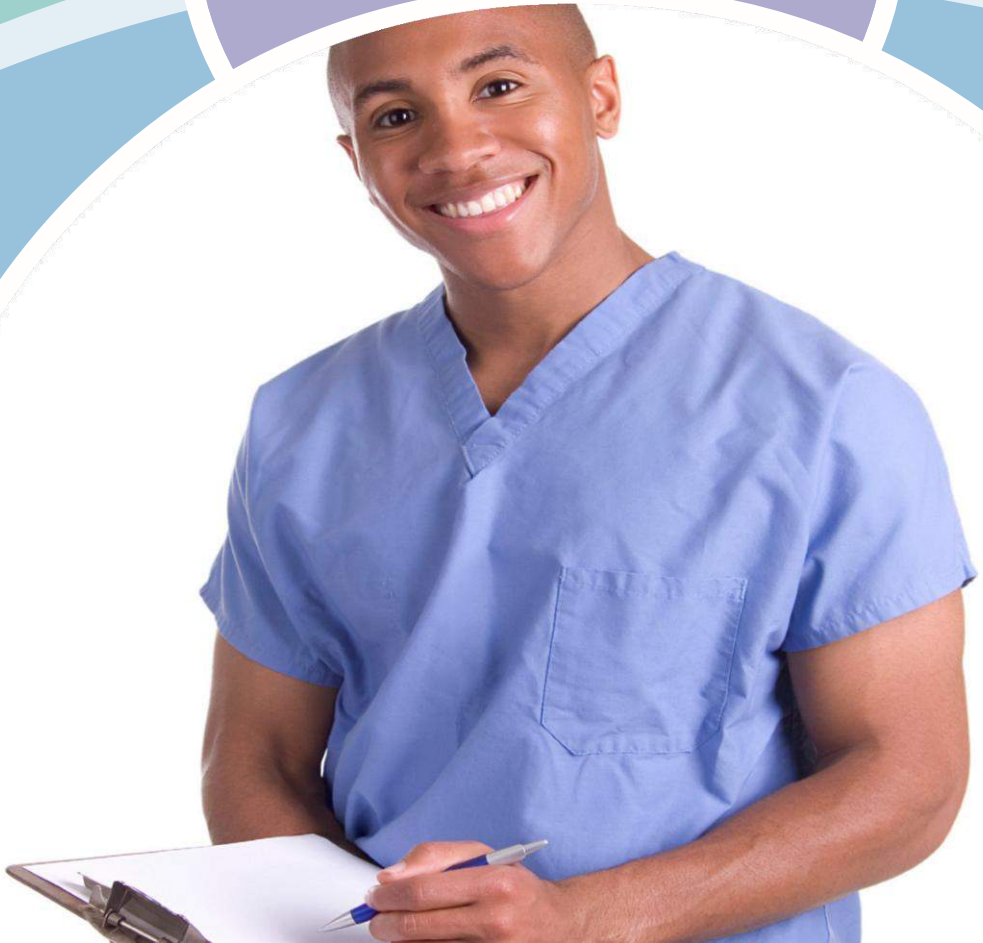
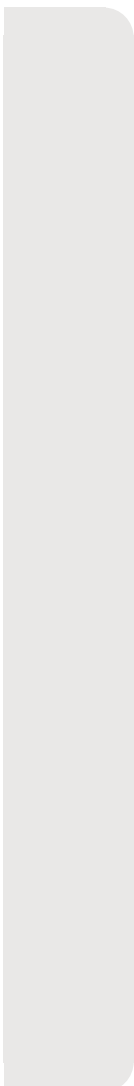


FACULTY OF
NURSING
& MIDWIFERY







VISION AND MISSION

The vision of this programme is to be the first in the Sudan in quality premises, excellent design and implementation of modules, according to recent advances in health professionals education, the fairest in evaluation and in nursing professionalism.

The mission of the nursing programme is to graduate up-to-date service and research-oriented nurses, with a strong commitment to solve nursing health problems, in a rich-science environment, aligning, as an active member, with a comprehensive and devout health team.

ENTRANCE REQUIREMENTS

A student interested in joining the Faculty of Nursing and Midwifery, has to:

1. Obtain pass mark in in seven subjects including: Arabic language, religious studies, English language, mathematics, physics, chemistry and biology. International students who have not studied Arabic and religious studies may have more alternative subjects from an approved list of subjects published in the webpage of Ministry of Higher Education.
2. Achieve the percentage in Sudan School Certificate announced every year (International students may have less in the School Certificate scores.
3. Apply electronically through the website of the Admission and Accreditation Office, Ministry of Higher Education, or apply directly in Admission Office in the National University, and pass the health examination, aptitude tests and interview at the Faculty of Nursing and Midwifery.
4. Pay the published fees: 12,000 SDG or US \$ 3,000 [international students]

CAREER ADVICE

Students qualified with this Bachelor Degree (B N) pass through a track decreed by the Health Professions Council, and are accredited as nurses and midwives, practice in hospitals, health centres both public and private, and may pursue postgraduate studies to obtain master's degree or PhD in the field of nursing to qualify for university teaching staff, in programmed professions. The graduate may be interested in managerial, commercial, industrial or charity career, related to one of various specialties in the discipline

International graduates can follow the same track if they preferred to stay in the Sudan, but may also start their registration and internship in their own countries or residence.

FACULTY OBJECTIVES

The objectives of the Faculty of Nursing and Midwifery National University are to:

1. Emphasize the values and ethical heritage of the Sudanese Nation in its curriculum, and follow strategies that lead to strengthening these values, as an important component of the National University's philosophy and message (see website www.nu.edu.sd).
2. Graduate a health professional with a Bachelors degree of Nursing (BN), competent in nursing sciences and skills with strong community orientation, social and ethical commitments, utilizing all recent developments in evidence-based nursing education and practice.
3. Contribute to community development through health services provided in its own health institutions, and other institutions co-operating with it, through the following: (a) partnership in designing health programmed and plans, and implement whatever is feasible in utilizing the experience of specialists, (b) contribution in continuous education, through short and long term courses, to overcome the deficiency in the quantity and quality of nursing health workers and (c) provision of essential equipments and supplies to improve the quality of health services offered by the ministries of health.
4. Strengthen health, medical and health research in nursing, making used of the University's accessibility and communication privileges.

CURRICULUM OBJECTIVES [Characteristics of the Nursing graduate]

A graduate of the Faculty of Nursing and Midwifery - National University should be able to:

1. Adopt the strategies of the National University- Sudan and abide by its objectives, rules and regulations stated in the Charter (2015)
2. Observe, in his/her practice, the health professional ethics which agree with the Nation's values, beliefs and norms (as stated by Sudan Allied Health Professions' Council), and maintain good and honest relations with her/his patients, their families, his/her colleagues across all sectors involved in health.
3. Appreciate the value of diversity and multi-ethnicity in solving nursing problems with emphatic, humane and fair practice.
4. Integrate basic, community, clinical nursing and laboratory sciences in

- solving community, family and individual health problems relevant to nursing sciences and practice.
5. Use scientific knowledge in the nursing management of health problems, according to known methods of problem solving and integration, and show understanding of the scientific structural (anatomical), functional (physiological, biochemical), morbid (microbiological, pathological), and therapeutic (pharmacological) background related to the problem.
 6. Manage emergencies and perform life-saving procedures and critical care, and decide and act properly on cases needing consultation with colleagues or referrals to specialized centres or personnel.
 7. Show patience and tolerate when sitting and/or standing for relatively longer time in doing works, especially indicated by patient condition, well beyond working hours.
 8. Handle chemical, biological and dangerous materials with caution and safety using the scientific approaches stated in procedures for dealing with these materials.
 9. Perform medical history and physical examination according to the standard scheme, and carry out responsibilities of patient hygiene, bed making and vital sign recording according to the prescribed procedure.
 10. Obtain samples from patients in the proper and timely manner and in a professional way.
 11. Accept to work in all settings, urban or rural, served or under-served, according to needs, and acts to improve health service delivery systems both quantitatively and qualitatively.
 12. Encourage community participation in patient and community nursing and help in recruiting various sectors in defining health related problems, planning and providing suitable solutions, recognizing the community beliefs, ethics and traditional practices.
 13. Adhere to the “health team” approach, acting as an efficient member, accepting labor and responsibilities given to its members, and promoting both effectiveness and homogeneity among members.
 14. Continue to consider elements of efficiency, costing and economic implications in her/his nursing management and/or therapeutic choices.
 15. Acquire the skills of teaching, learning and communicating efficiently to carry out her/his duties in health education and in winning the confidence of patients and their families.
 16. Show respect to patients, supervisors, and colleagues, using satisfactory

communication with them together with keeping confidentiality in all levels of communication and care.

17. Acquire the skills of independent learning and contribute to availing opportunities for planning and implementing continuous educational activities to upgrade her/his own abilities and those of her/his colleagues in the health team, benefiting from information technology.
18. Carry out health, or health-related research, alone or with other members of a team in health or other relevant sectors, using known and approved scientific methods.
19. Use computers in word processing of (both Arabic and English), presentations, spreadsheets, statistic packages and graphics to achieve success in other objectives of her/his career.
20. Acquire postgraduate qualification in the discipline of her/his choice, recognizing the needs of the society for certain specialties, particularly emergency, critical care, trauma, and maternal and child health nursing.

EDUCATIONAL STRATEGIES AND METHODS

As stated in the Academic Regulations and in the general Prospectus of other programmes, the learning strategies emphasize the following: (1) early acquisition of basic skills, (2) student-centred learning, and maximum student responsibility in the learning process, (3) problem-based and problem oriented instruction, (4) community-oriented and community-based activities, (5) integration of basic science, community and clinical practice, in a multidisciplinary approach, (6) self- and peer- education and evaluation, wherever relevant, (7) team-work attitude, (8) a range of elective modules, (9) continuous evaluation, (10) preparation for continuous professional development.

The Faculty adopts the following methods in the daily programme of activities: (1) problem-based learning (PBL) sessions - one problem/ week at most, (2) seminars and small group discussions –once/ week at least (3) field practice in rural and primary health care settings and societies not less than 1/5th of the timetable, (4) practical sessions (laboratory, clinical, pharmaceutical industries) not less than 1/4th of the curriculum timetable, (5) skill laboratory (weekly) sessions, (6) lectures -not more than 1/3rd of the curriculum timetable (not more than 3 lectures/ day). (7) educational assignments, reports and research activities (as many as the programme would allow - at least one per module), (8) electives -not more than 10% of the curriculum timetable, and (9) graduation project.

TIMETABLE

The curriculum follows the 'semester system' extending over 4 years: full eight semesters and short summer units. The first two semesters form the common preparatory year with medical and other health sciences programmed. The third

semester, and partly the fourth semesters are common to all departments of the program. The fourth to eighth semesters constitute mainly the specialization stage.

The programme applies the entry requirements, semester, modular and credit hour plans adopted by other National University programmes and abides by the Academic Regulations.

Semester 1 [22 CHs- 16weeks]

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
	Orientation Week						
1.	English Language -1	ENG-111	16weeks	2	1	-	3
2.	Computer Science	NUR-COMP-112	15weeks	2	-	-	2
3.	History And Ethics Of Nursing	NUR-HIS-113	2weeks	2	-	-	2
4.	Medical Terminology	ME -TERM-114	2 weeks	2	-	-	2
5.	Community Health Nursing I	NUR-COM-115	2 weeks	2	-	-	2
6.	Behavioral Science	NUR-BEHAV-116	2 weeks	1	-	1	2
7.	Human Body Structure & Function-I	NUR-ANAT-117	6 weeks	3	1	-	4
8.	Fundamental Of Nursing-I	NUR-FUND-118	6 weeks	4	-	1	5
			16	18	2	2	22

Examination of longitudinal courses (+re-sits) 2 weeks

courses or examinations for late comers and failures.

Semester 2 [21 CHs- 16 weeks]

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
1	English Language -2	ENG-121	16weeks	3	-	-	3
2	Microbiology & Proctology	NUR-MICRO-122	4weeks	3	-	-	3
3	Basic Biochemistry	NUR-BIOCH-123	4 weeks	3	-	-	3
4	Human Body Structure & Function-II	NUR-ANAT-124	5weeks	3	1	1	5
5	Fundamental of Nursing-II	NUR-FUND-125	7 weeks	5	1	1	7
			16	17	2	2	21

Examination of longitudinal courses (+re-sits)

2 week

SUMMER Activities -1 AND ELECTIVES.

1. 1000 – word report on “Internet Sources of Nursing Sciences” 1CH(E-131) 2CHs
2. Repeat courses or examinations for late comers and failures.

FIRST YEAR PROGRAMME EVALUATION**Semester 3 [24 CHs- 18 weeks]**

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
1	Nutrition in health and illness	NUR-NUT- 211	Long.	-	-	2	2
2	Basic therapeutics (pharmacology)	NUR-PHARM-212	Long.	2	-	1	3
3	Principles of disease (Pathology)	NUR-DIS-213	3	2	-	1	3
4	Epidemiology	NUR-EPID-214	2	2	-	-	2
5	Adult nursing- medical -1	NUR-MED-215	6	1	-	2	3
6	Adult nursing- surgical-1	NUR-SURG-216	5	2	-	1	3
			16	11	-	8	19

Examination of longitudinal courses (+re-sits) 1 week Examination of longitudinal courses (+re-sits) 1 week

Semester 4 [22 CHs- 18 weeks]

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
1	Educational technology	NUR-EDU-221	Long	-	-	2	2
2	Sociology and anthropology	NUR-SOCIO-222	Long	2	-	1	3
3	Communication skills and counseling	NUR-COUN-223	Long	2	-	1	3
4	Computer science – II	COMP-224	2	1	-	1	2

5	Adult nursing- medical - II	NUR-MED-225	7	4	-	3	7
6	Adult nursing- surgical- II	NUR-SURG-226	8	4	-	3	7
			17	13	-	11	24

Examination of longitudinal courses (+re-sits) 1 week

SUMMER ACTIVITIES- 2 AND ELECTIVE MODULES - Repeat courses or examinations for late comers and failures

SECOND YEAR PROGRAMME EVALUATION

Semester 5 [18 CHs- 18 weeks]

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
1	Health Economics	NUR-HEC-311	Long	2	-	-	2
2	Primary health care	NUR-PHC-312	3	3	-	-	2
3	Genetics	NUR-GEN - 313	2	-	1	1	2
4	Obstetrics nursing	NUR-OBS-314	8	4	-	4	8
5	Gynecological nursing	NUR-GYN - 315	4	2		2	4
			17	11	1	7	18

Examination of longitudinal courses (+re-sits) 1 week

Repeat courses or examinations for late comers and failures.

Semester 6 [20 CHs- 18 weeks]:

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
1	Statistics	NUR-STAT-321	long	-	-	2	2
2	Nursing theory	NUR-THEO-322	long	2	-	-	2
3	Child Health care	NUR-CHC-323	2	-	-	2	2

4	Pediatric nursing	NUR-PED-324	7	4	-	3	7
5	Psychiatric Nursing	NUR-PSYC-325	5	3	--	2	5
6	Research Methodology	NUR-REC-326	2	2	-	-	2
			16	11	-	9	20

Examinations (2weeks)

SUMMER Activities- 3 AND ELECTIVES Repeat courses or examinations for late comers and failures

THIRD YEAR PROGRAMME EVALUATION

Semester 7 [22 CHs- 19 weeks]

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
1	Graduation Project	NUR-PRO-411	long	1	-	1	2
2	Forensic Medicine &law	NUR-LAW-412	long	2	-	-	2
3	Nursing informatics	NUR-INFO-413	long	2	-	-	2
4	Emergency and critical care	NUR-EMER-414	6	3	-	3	6
5	Nursing leader- ship and care management	NUR-LAD-415	4	2	-	2	4
6	Geriatric nursing	NUR-GERI-416	2	2	-	-	2
7	Community nursing - II	NUR-COM-417	5	2	-	2	4
			17	14		8	22

Examinations (2weeks)

Semester 8 [20 CHs- 20 weeks]

	Title	Code	Weeks	Units			CH
				Th	Tut	Prac	
1	Graduation Project	NUR-PRO-421	Long	1	-	1	2
2	Medical nursing (consolidation)	NUR-MED-422	5	1	-	4	5

3	Surgical nursing (consolidation)	NUR-SURG-423	5	1	-	4	5
4	Obstetrics and gynecological nursing (consolidation)	NUR-OBGYB-424	4	1	-	3	4
5	Pediatric nursing(consolidation)	NUR-PED-425	4	1	--	3	4
			18	9	-	11	20

Examinations (2weeks)

GRADUATION AND CLERKSHIP EVALUATION is at the end of each clerkship= see ISO-9001 forms of programme evaluation.

COURSE OUTLINES

NOTE: In each module the outline includes the basic concepts. Detailed behavioural objectives and hourly timetables will be designed later by specific coordinators.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
ENGLISH LANGUAGE	ENG-113+123	1/Longitudinal	2

The sources of health information in the world are written in English. The internet navigation to obtain information is basically in English. Some of the patients, attending clinics in Sudan, may only speak English language, especially with open-up of borders with economic development and of globalization. Passing the English language examination is an essential entry requirement to universities in Sudan. The general objectives of this course include: (1) correct pronunciation of medical terms, including those related to health services in the country, (2) correct reading and showing understanding of texts from medical books, (3) expressing one's self in good English describing his daily activities, career ambitions, present problems in health and current attempts at management, and (4) translating some texts from English to Arabic, and others from Arabic to English, both sets from medical literature.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
COMPUTER SCIENCE	COMP-116+224	1/Block 2 weeks	2

Most of the textbooks of medicine and allied sciences are available on CDs, in which a large volume of knowledge is saved and easily retrievable. There are many software packages demonstrating methods and techniques in clinical skills including patient rapport in history taking, clinical examination, investigations and management. Students and teacher can access the internet for the unlimited sources of health information, both at their professional level and public level for health education. Students and future doctors are educators who have to prepare smart documents and presentations for the health team and profession at large. Knowledge of programmed like Word, Excel, and PowerPoint are indispensable for anyone -learner or teacher. Computer is important for students both in the developed or developing world, more so for the latter, who might not have inherited voluminous libraries in their colleges and have to utilize the virtual libraries available all over the world. Medical journal as hard copies are difficult to be owned by one institution, now almost all are available on-line for those who can use the computer efficiently. The course is intensive focusing on the basic principles of computer electronics and applications relevant to health science education. This is mainly on the hand-on experience in dealing with famous programmed like DOS, Word, Excel, PowerPoint, Access and Internet Explorer. The use of CDs is stressed covered as well as having e-mails and navigating the internet for health information including how to access medical journals, and communicate with scientists worldwide.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
NURSING HISTORY AND ETHICS	NUR-HIS-115	1/block 2 weeks	2

This is a two weeks block course consisting of nursing history. It reviews the nursing development in Europe, Arab world and Sudan. It includes the general ethics in nursing profession.

The course provides the students with detailed information about the rules and regulations that govern nursing profession towards patients, community, and colleagues.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
HUMAN BODY STRUCTURE & FUNCTION	NUR-ANAT-117+125	1,2 /block 4/3 weeks	3/3

A four weeks block course divided into two parts in semester 1 & 2. Upon the successful completion of this course the student will be able to describe and explain, at a basic level, the gross anatomy of the human body, especially the functional aspects of major tissues, organ, and systems including respiratory, cardiovascular digestive, urinary, reproductive, endocrine and nervous systems. Nursing is a practical career that requires

sound training in basic skills. Before starting their clinical skills training; the students need to have good understanding of the anatomy and physiology of the human body.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
FUNDAMENTAL OF NURSING	NUR-FUND-114+126	1,2/Block 5/6 weeks	4/4

This course gives a fundamental knowledge and understanding of the basic principles of nursing and focuses on developing skills in recognizing and meeting the basic needs of human beings with application of scientific principles. The course is divided into two parts in semester 1&2. The first part deals with skills and abilities that facilitate patients' care. It includes : (1) the characteristics of nursing profession (2) first aid (3) bed making (4) bed bath (5) hygiene (6) vital signs (7) parental injection (8) nasogastric tube. The course provides the students with basic nursing skills required in nursing care (nursing process) for ill patients in all health institutions and services. Part 2 of fundamental nursing deals with skills and abilities that facilitate patients' care and (1) infection control (2) enema (3) collection of specimen (4) oxygen therapy (5) catheterization (6) wound care.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
BIOCHEMISTRY	NUR-BIOC-118	1/Longitudinal	2

The practice of nursing requires basic knowledge of biochemistry and broad information about the process of metabolism in the human body this longitudinal course provides basic information of biochemistry, structure, function of cell, cellular transport mechanism, composition of carbohydrates, protein, vitamins and amino acids

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
MICROBIOLOGY AND PARASITOLOGY	NUR-MICRO-127	2/Block 3 weeks	3

These three weeks modules focuses on: classification of micro-organisms-bacteria, viruses, fungi and parasites, the principles of sterilization and disinfection, the basics of immunology and methods of collection, handling and transportation of various specimens.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
COMMUNITY HEALTH NURSING 1	NUR-HED-128	2/Block 3 weeks	2

This three- week module focuses on enabling the student to provide care for mothers and children through health education, promoting breast feeding, vaccination, and child nutrition, for the community, at large. It works on changing knowledge, attitudes, behaviour and health style of the individuals, and families, especially in the areas of

nutrition, dental care, obesity, smoking and alcohol uptake, diabetes mellitus, asthma, tuberculosis, hypercholesterolemia, hypertension, ischemic heart disease, hepatitis, osteoporosis, drug addiction and premarital counseling.

This course provides the students with basic knowledge in community health and community nursing and focuses on assessing the environment and maintaining a healthy environment in student's residence, hostel, hospital and college.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
BEHAVIOURAL SCIENCE	ME-BEHAV-124	2/Block 2 weeks	2

This is a two-week-block module includes: (1) definition of the psychosocial aspects of human development.

(2) The significance of effective communication in the health provision process.(3) the genetic, developmental, and environmental factors that control human behaviour.(4) the values and attitudes that distinguish the medical profession from others.

The course also introduces the students to the relation between body and mind and interpersonal behaviour and explains the principles of psychology in the practice of nursing

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
NUTRITION IN HEALTH AND ILLNESS	NUR-NUT-211	3/longitudinal	2

A longitudinal course that helps students understand the: (1) biochemical and physiological basis of nutrition, (2) nutritional substances and supplements including vitamins, (3) breast feeding, (4) daily nutritional requirements, (5) nutritional disorders in infancy and childhood including malnutrition, (6) deficiency of vitamins and certain other substances resulting in disease, (7) diagnosis and management of nutritional disorders, with particular reference to those occurring in the Sudan.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
BASIC (therapeutics) PHARMACOLOGY	NUR-PHAR-212	3/longitudinal	3

A longitudinal course that includes: (1) definition of a drug, (2) development of a drug, (3) drug absorption and dynamics, (4) rational use of drugs in the management of emergency and common problems, including drug prescription for rhinitis, sinusitis, laryngitis, bronchitis, pneumonia, pulmonary TB, (5) interaction between drugs and genes. with drugs for example glucose-6 phosphate dehydrogenase deficiency and sulphonamides and anti malarials, (6) clarify interrelationship between bacterial infections, inflammatory mediators, anti-inflammatory drugs and antimicrobial drugs, (7) effects of morphine, (8) clinical uses and side effects of aspirin, paracetamol, and non-steroidal anti-inflammatory drugs, (9) outline the use and side effects of levodopa (in

Parkinson's disease), tricyclic antidepressants (in depression), benzodiazepines (in insomnia), antipsychotic drugs (in schizophrenia), antiepileptic (in seizures), muscarine antagonists, anticholinesterases, sympathomimetics and beta blockers.

It also includes (1) legal classification of medicinal products, (2) labeling and storage, (3) controlled drugs supply, ordering, administering, disposal and retention of records.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
PRINCIPLES OF DISEASE(PATHOLOGY)	NUR-DIS-213	3/block- 3weeks	3

This is a three-week block on general pathology and microbiology. It includes: (1) general histology, (2) morphology, classification, staining reactions, and pathogenicity of bacteria, viruses, fungi, (3) sterilization and disinfection, (4) basic concepts in immunity, (5) principles of inheritance, introduction to molecular biology, and genetic defects underlying inherited disorders, (6) general pathology of inflammation, neoplasia and abnormal cell growth, (7) parasites and parasitic diseases, (8) anti-microbial and anti-parasitic drugs and neoplasm.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
EPIDEMIOLOGY	NUR-EPID-214	3/Block - 2 weeks	2

A 2 week- block module which reviews the health system, the socioeconomic, psychological, behavioural and environmental factors related to epidemiology of disease and affecting its management, as well as primary health care. Most of the time in this course is devoted to weekly visits to health centres and villages trying to understand the health problems and help the local people and authorities in suggestions and involvement in solving them, not only in the investigative and diagnostic aspects, but the preventive and health promotion activities, as well. This is possible through the study of epidemiology and health research, and the methods used in community medicine to investigate epidemics, maternal and child health, and control of endemic and communicable diseases.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
ADULT NURSING MEDICAL	NUR-MED-215+225	3/4/Block 6/7 weeks	5+7

This course is taught over two semesters- 3 & 4. It covers medical diseases, their patho-physiology, signs and symptoms, laboratory tests and imaging studies used in diagnosis, medical and nursing management using problem solving, and the role of nursing in monitoring the patient and prevention of complications.

Medical nursing provides the student with an opportunity to provide care to the adult patients with alteration in the cardiovascular, renal, reproductive gastrointestinal neurological sensory and clinical application of the nursing process based on problem

solving (nursing process) when providing care for acutely ill medical patient with specific conditions

Training on adult physical assessment skills is provided in acute care setting.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
ADULT NURSING SURGICAL	NUR-SUR-216+226	3/4/Block -5/8weeks	5+7

This course is taught over two semesters - 3 & 4. It focuses on surgical conditions, their patho-physiology, signs and symptoms, laboratory tests and imaging studies used for diagnosis. It covers the surgical and nursing management based using problems solving, and the role of nursing in monitoring the patient and prevention of complications.

Students are trained in physical assessment skills for adult patients in acute care setting like closed chest drainage system, stoma care, preoperative, intra-operative and postoperative care, wound care and irrigation- dressing- binders and bandages, assisting with cast application and removal, care of skin and skeletal traction, application and removal of chest tube drainage systems.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Educational technology	NUR-EDU-221	4/longitudinal	2

This two weeks course explains the concept of teaching elements and components of the curriculum, defining the basic principles of teaching & learning, methods of teaching, methods of evaluation and teaching technology with practical applications.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Sociology and anthropology	NUR-SOCIO-222	4/longitudinal	2

This is longitudinal course module discusses the various social systems in Sudan with emphasis on their effect upon the health of the community. It discusses the impact of cultural norms, traditions and beliefs on individuals and community in the country while as well as planning and implementing nursing care for the maintenance of health and prevention of illness.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Communication and counseling skills	NUR-COUN-223	4/longitudinal	2

This longitudinal course module defines and describes the principles of counseling. It explains the qualities of a counselor, describing situations where counseling can be used and discuss the different techniques of counseling and the available agencies for

counseling in the community. Students will be trained in counseling patients and their families.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Health Economics	NUR-HEC-311	5/longitudinal	2

This longitudinal course on health economics covers the definition of health economics, the concept of health economics and its implication in health planning. It reviews the effect of the individual's health and its impact on individual income. The course discusses the cost benefit and cost effectiveness of health, identify the needs and cost of a nursing unit, and how to plan a nursing unit including its cost effectiveness. It demonstrates ways to manage nursing services with minimum cost.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Primary Health Care	NUR-PHC-312	5/ Block 4 weeks	2

This four-week block module on primary health care introduces the concept of PHC and its components , provision and coordination of care, collaborative and therapeutic practice prevention, the role and impact of nurses in the community. It identifies the local, national and global examples of primary health care initiatives and the role of health promotion as a primary health care strategy.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Genetics	NUR-GEN -313	5/Longitudinal	2

A two-credit longitudinal module that include: Discussion of the nature, principles and perspectives of heredity. Discussion of the maternal, prenatal and genetic influences on development of defects and disease. - List of the screening methods for genetic defects and diseases in neonates and children. Identification of some genetic disorders in adolescents and adults. Description of the role of nurses in genetic services and counseling.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
OBSTETRICAL NURSING	NUR-OBS-314	5/Block -8 weeks	8

An eight - week-block module that covers: (1)the scope of maternity nursing, (2) review of anatomy and physiology of female reproductive system and female pelvis, (3) Pre-conception care and preparing for parenthood,(4) role of nurses in midwifery and obstetrical care (5) taking women's history and performing physical examination (6)national policy and legislation in relation to maternal health and welfare., (7) proper antenatal care(8) the physiology of conception., (9)physiology and stages of normal labour(10), (11) nursing care during labor., (12) Assess and manage patients with high-

risk pregnancy (13) the physiology of normal purperium.(14)hypertensive disorders of pregnancy (15) Heart disease during pregnancy(18) contraception and abortion, (19) sexually transmitted diseases(20) nursing care during labor, (21) nursing care of postpartum woman, (22) transition to parenthood, (23) newborn nutrition, (24) abnormalities during postnatal Periods,(25) Assessment and management of obstetrical emergencies, (26) antepartum and postpartum hemorrhage, (27) mental health disorders and substance abuse.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Gynecological nursing	NUR-GYN -315	5/block-4weeks	4

Four-week block on Gynecological nursing, discussing (1) The disorders of the menstrual cycle and the menopause (2) The inflammatory and malignant conditions of the female reproductive system (4) The methods of contraception; spacing, temporary and permanent and emergency contraception (5) diagnosis and treatment and nursing care of abortions (6) Inflammatory and malignant conditions of the female reproductive organs.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Statistics	NUR-STAT-321	6/block-2weeks	2

This is a two-credit block module on statistics. It introduces the student to the of biostatistics, the role of statistic in health care, the different types of data, the tools of data collection, sources of data, methods of measuring the central tendency of a given set of data, definition of relation & coefficient , presentation of the result of analysis of given data, using the SPSS and the hospital health information system.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Nursing theory	NUR-THEO-322	6/block-2weeks	2

This two weeks block helps the student to:..define the nursing theories -Development of nursing theory- components of nursing theory -the most commonly used nursing theory.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Child health care	NUR-CHC-323	6/block-2 weeks	2

This 2 weeks course is designed to introduce the students to the concepts and principles of child health care. It provides them with knowledge and skills to provide nursing care to normal children of all age groups, and assess growth and development of normal children in community settings. It also motivates the nursing students to use the available community resources to provide child care

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Pediatric nursing	NUR-PED-324	6/block-7 weeks	7

This seven weeks course introduces the students to the concepts and principles of pediatric nursing. It directs them to acquire knowledge and skills to provide nursing care for normal and high risk children. It also provides the students with the experience to deal with ill children in medical & surgical pediatric wards.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Psychiatric nursing	NUR-psyc-325	6/Block -5 weeks	5

This is 5 weeks course covers the role and function of psychiatric nurse including recognizing various forms of mental illness, establishing facilitative communication, understanding and practicing effort to lower the incidence of illness in the community.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Research methodology	NUR-RES-326	6/Block -2 weeks	2

This is a 2 week, block module designed to teach students how to conduct research study in nursing independently by using scientific statistical methods. It teaches the student how to write, present, interpret and utilize health related research.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
GRADUATION PROJECT	NUR-PRO-411+421	7,8/LONGTUDINAL	2

A longitudinal course reserved to writing a short thesis, which can be a review or experimental research. No formal didactic timetable is needed since students had a previous course on research methodology. Students will be supervised to decide on the topic title, and advised on starting and progress in writing. The cost of research and examinations is the responsibility of the candidate.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Forensic medicine & Law	NUR-LAW -412	7/longitudinal	2

A longitudinal course that covers: (1) Definition of forensic medicine (2) Understanding the medico legal issues (3) Describing signs and causes of death (4) Cooperation with justice authorities in crime detection whether the crime is committed by accident, suicide or homicide. (5) Understanding the effects of poisons on human beings through medical statistics.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Nursing informatics	NUR-INFO-413	7/longitudinal	2

A longitudinal course that includes: (1) Definition the terminology and classification of nursing information system (2) data entry and collection in different departments (3) Use of the internet as a source of health and nursing informatics (4) Discuss the role of information and information technology in the nursing profession (6) Use informatics resources: navigation and electronic communication (7) Design data base for health care (8) Discuss computer -based patient records; issues and ethics .

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Emergency and critical care	NUR-EMER-414	7/block-6 week	6

A six-week module that covers the following: (1) cardiovascular system: angina - acute myocardial infarction - heart failure, (2) respiratory system: mechanical ventilation - pulmonary embolism - acute respiratory distress, (3) gastrointestinal system: gastrointestinal bleeding - bowel obstruction - pancreatitis - liver failure, (4) renal system: acute tubular necrosis - hyperosmolar non-ketotic coma - diabetes insipidus, cerebral salt wasting, (5) hematologic system: acute sepsis - thrombocytopenia - disseminated intravascular coagulation, (6) nervous system: seizure - status epilepticus - meningitis - spinal cord injuries, (7) integumentary system: burns, skin breakdown, necrotizing fasciitis, (8) multi-system: multiorgan dysfunction syndrome. (9) Perform management of patients with the following emergency medical conditions: Pulmonary embolism - Seizure disorders - Diabetic ketoacidosis - Cardiac arrest - Cardiac failure - Arrhythmias - Shock - Asthma

(10) Perform management of patients with the following emergency surgical conditions: Chest Trauma - Flail chest - Hemorrhage/shock - Abdominal trauma - Back injury - Head injuries

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Nursing leadership and care management	NUR-LAD-415	7/block-4 weeks	4

This is a four-week-block module that describes: (1) the hospital as a system (2) recognize health and nursing organizational set up at various levels. (3) differentiate between public and private administration (4) discuss management process in nursing and the role of the nurse manager (5) identify the functions and attributes necessary for effective management (6) identify economic, demographic and technological changes affecting nursing practice and formulate reforms for change. (7) apply principles of management in hospitals, nursing education programmed, and community health care units at all levels. (8) demonstrate leadership in professional nursing practice (9) establish collaborative relationship with the other members of the health care team & the public. (10) discuss the importance of integrating nursing practice, education, & research for improving the quality of nursing services. (11) discuss the role of nurse manager in organizing emergency nursing and other support services (12) identify and analyze ethical

& legal issues in nursing management (14) identify areas of research in nursing management

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Geriatrics nursing	NUR-GERI-416	7/block-2 weeks	2

A two-week-block module that teaches the students to: (1) Perform a comprehensive assessment of an older person, including mood, cognition, gait, nutrition and fitness for

surgery in an in-patient, out-patient, day hospital or community setting. (2) Manage acute illness in old age in an in-patient setting and community setting. (3) manage patients with chronic disease and disability in an in-patient, out-patient, day hospital and community setting. (4) plan the discharge of frail older patients from hospital. (5) assess and manage older patients presenting with the common geriatric problems in an inpatient or outpatient setting -falls with or without fracture , delirium ,incontinence and poor mobility. (6) demonstrate an appropriate level of competence in the following sub-specialties: palliative care , ortho- geriatrics, old age psychiatry and specialist stroke care.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Community health nursing-2	NUR-COM-417	7Block-5 weeks	4

This is a five- week-block module that teaches the students to: (1) assess community health and plan a community health program. (2) describe the various components of reproductive and child health program.

(3)demonstrate leadership abilities in organizing community health nursing services by using inter-sectoral approach. (4) describe the role and responsibilities of community health nurse in various national health and family welfare programmed.(5) participate in the implementation of various national health and family welfare programmed.(6)demonstrate competencies in providing family centred nursing care independently(7)participate / conduct research for new sights and innovate solutions to health problems. (8) Teach and supervise nurses and allied health workers.(9)design a layout of sub centre / primary health centre / community health care and develop standards for community health nursing practice.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
MEDICAL NURSING- CONSOLIDATION	NUR-MED-422	8/Block -5weeks	5

This is a five-week-block module that offers: (1) a review of the aspects of medical nursing care in Module NUR-MED-312, (2) various aspects of practical nursing care to those patients with medical problems in adult patients in the ward (ambulant or bed-ridden), and outpatient clinics, (3) learning and discussing respiratory, cardiovascular, gastrointestinal, urinary, endocrine and rheumatic diseases, (4) special care of the unconscious patient, those with fluid and electrolyte imbalance and malignant disease.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
SURGICAL NURSING- CONSOLIDATION	NUR-SURG-423	8/Block -5 weeks	5

This is a five-week-block module that covers: (1) a review of the aspects of surgical care

in Module NUR-SUR-313, (2) various aspects of practical nursing care to those patients with surgical problems in adult patients in the ward (ambulant or bed-ridden), and outpatient clinics, (3) learning and discussing respiratory, cardiovascular, gastrointestinal, urinary, endocrine and rheumatic diseases that require or undergoing surgery, (4) operative and postoperative care, (5) the special care of the unconscious patient, those with fluid and electrolyte imbalance and malignant disease.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
OBSTETRIC AND GYNECOLOGICAL NURSING -CONSOLIDATION	NUR-OB/ GYN-424	8/Block -4weeks	4

This is a four-week-block module that covers: (1) nursing care of women who suffer organic and psychological disorders due to gynecologic causes and normal and abnormal obstetrical course, (2) review of the structural and functional aspect of female reproductive system, (3) taking of obstetric and gynecologic history and performing antenatal care, (4) diagnosis of pregnancy and recognition of normal and abnormal pregnancy, (5) discussion and management of normal labor and suggesting diagnostic and management plan for expected abnormal labor, and (6) showing understanding of the precaution taken in medications and investigation done to pregnant women.

<i>Title</i>	<i>Code</i>	<i>Semester/Duration</i>	<i>Credits</i>
Pediatric nursing – consolidation	NUR-PED-425	7/Block -4 weeks	4

A four- week-block module that reviews the basic concepts in module NUR-PED-322, and covers: (1) growth and development of the child, (2) family-centred nursing care, health promotion during infancy, childhood, school age and adolescence, (3) physical assessment of child, emergency care of children, medicating infants and children and pain management for children, (4) child with infectious disease, immunologic alteration, fluid and electrolyte alterations, hematologic, respiratory, cardiovascular, gastrointestinal, genitourinary, neurologic alterations, (5) growth charts and anthropometric assessment. Children with cognitive impairment are to be managed with patients with special problems.