

Islamic studies (ISLAM-111) -2CHs, Longitudinal course

Course title:	Islamic studies
Symbol and number:	Islam-111and 121
Duration and credits:	Longitudinal, 2CHs
Staff coordinator:	Prof. Shawgi Bashier, Dr. Ibrahim M.Osman
Student coordinator:	X
Intended Students:	Semester 1
Prerequisites:	None

يشتمل هذا المنهج علي كورسين أحدهما في المرحلة الأولى (111) و ثانيهما في الفصل الاول من المرحلة الثانية (121) و يحتوي علي تحفيظ سورتين من القران الكريم اجتمع فيهما الكثير من السلوكيات للانسان المسلم, كما يتضمن مقدمات في مبادي استنباط الأحكام الشرعية التي تحتاج لها المهن الصحية, و مراجعة بعض الفتاوي التي يسأل عنها العاملون في مجالات الصحة قیل المرض و المراحعيين , و الجهات الشرعية و القانونية, و يتعرض لدراسة المشكلات الصحية و الشرعية و كيفية تناولها بروح جماعية مسنولة وحوار ناضج مصدري و بناء.

الأهداف الخاصة للمنهج 111:

1. أولاً: القران الكريم و السنة المطهرة و الفكر الاسلامي
1. حفظ سورة النور , و معاني الكلمات (تكليف-12 ساعة)
2. يشرح علم المطلحات الحديث
3. يبدي فيها المصطلحات أصول الفقة المتعلقة بكيفية استنباط الأحكام الشرعية.
4. يناقش أفكار الفرق الإسلامية المعاصرة (خمس فرق رئيسة) و استقلامتها أو انحرافاتهما.
5. 2+3+4-6 جلسات* ساعتين

ثانياً: الأحكام الفقهية في المرض و الموت

1. يشرح أحكام طهارة المريض و عباداته
2. يورد النصوص الخاصة بزيارة المريض

3. يورد النصوص الأمرة بالتداوي
4. يوضح الفتاوي الخاصة بالتبغ و الخمر و الحشيش و المخدرات.
5. يوضح الأحكام الخاصة بحفظ الصحة و النفس .
6. يوضح الأحكام الخاصة بمعاملة المريض.

الأهداف الخاصة للمنهج 121:

اولاً: القرآن الكريم

يحفظ سورة الحجرات مع معاني الكامات

يستنبط سلوكيات المسلم الوارد في السورة

ثانياً: الأحكام الفقهية

شرح فقه الجنائز, مع التركيز علي ما يجب عند الاحتضار ,ولحظة الموت , و كيفية غسل الميت, و من يغسل من ؟و كيفية الصلاة علي الميت رجلاً كان أم أنثي.
أحكام القصاص في الجروح, و الأصابات , و القتل,و العفو, و الديات ,و التعويض,و الأطراف الصناعية, وغيرها .

Educational strategies and methods:

- محاضرات
- تكليفات دراسية
- عمل مجموعات
- حلقات دراسية

Evaluation and assessment methods:

- تقويم الطلاب النظري 30%
- التقويم المستمر 10%
- تقويم عملي 60%

Required resources:

- سبورة و جهاز عرض .
- مكتبة

المراجع

1. القرآن الكريم وشفوة التفاسير
2. فقه الطيب- عمر عبد العزيز و آخرين
3. أي مرجع أخري يقترحها سناذ المادة' و توافق عليها الكلية
4. مذكرات الكلية.

Arabic language (Arab-112) 2CHs ,Longitudinal course

Course title:	Arabic language
Symbol and number:	Arab-112 and 122
Duration and credits:	Longitudinal -2CHs
Staff coordinator:	Prof. Elhibir YOUSIF Ustaza. Intisarl Mahdi
Student coordinator:	X
Intended Students:	Semester 1
Prerequisites:	None

يشتمل هذا المنهج علي كورسين أحدهما في المرحلة الاولي(122) وثانيهما في الفصل الاول من المرحلة الثانية(122) ويحتوي على اساسيات اللغة العربية الازمة ليقراً المتعلم اللغة قراءة صحيحة مستحضراً قواعد النحو الصرف والاعراب ومخارج الحروف للتأكد من مبررات توجيه القراءة يطلب من المتعلم كيف يلخص ويقتصر المقالات الطويلة للتأكيد على قدرة فهم النصوص العربية وتدريبه على اساس الترجمة بين اللغتين عبر تكاليفات محددة

Rationale:

A student or graduate dealing with Arabic speaking patient in a country where this an official language has to know all medical terms in Arabic (covered in other courses) and reads and writes the language with perfection that helps accurate referral an reports writing specially those requested by the judicial system. The health service teams includes professional who do not speak a foreign language, the supposed leader of that team has to know how

do they practices their rule in health provision. Patients have the right to know all details about their illnesses, and it is not their mistake that a treating doctor capable of understanding Arabic verbs and nouns or explaining medical terms, especially those related to obtaining and informed consent.

Four hours every week for two semesters (two of them are SDLS) the details should include basic language roles that help the students express themselves or developing basic Arabic language skills for correct understanding and pronunciation correction of common errors in composition of sentence and vocabulary avoidance of common mistakes when writing articles and answering questions , application of grammatical roles on speech and recitation , particularly stating scientific facts in Arabic , know the courses of translation of medical terms , and the exact Arabic equivalent of all medical terms .

General objectives:

By the end of this course the student expected to:

1. Use of the basic Arabic language skills for correct understanding and pronunciation.
2. Be able to correct on of common errors in composition of sentences and vocabulary.
3. Be able to avoid common mistakes when writing articles and answering questions.
4. Apply grammatical rules on speech and recitations.

1 الاهداف الخاصة: (112)

1. يقرأ ويكتب الجمل العربية صحيحة مستخدماً قواعد النحو ومدركاً لمعانيها .

2. يناقش احكام الهمزة والتاء المربوطة والمبسوطة ،واللام الشمسية والقمرية وكتابة الرسائل وعلامات الترقيم .
3. يشرح معاني الفصاحة والنحت في اللغة والترادف والمشارك اللفظي والتضاد والدخيل والمعرب والمولد وعلم الاصوات.
5. يستخدم مخارج الحروف الصحيحة .

الاهداف الخاصة: (122)

1. يعرب الجملة العربية محددًا الافعال والاسماء وحروف الجر والصفات والحال ، والبناء للمجهول .
2. يختصر قطعة كبيرة تتجاوز الالفى كلمة في ملخص لايتجاوز مائتي كلمة.
3. يحفظ القصيدة الشعرية المقررة .
4. يقوم بتعريب ثلاث قطع (حوالي ثلاثمائة كلمة) من المنشورات الطبية باللغة الانجليزية للغة العربية ، ومثلها من العربية للانجليزية .

Recommended reading material

College notes

English language (ENG-113) 4CHs, Longitudinal course

Course title:	English language
Symbol and number:	ENG-113 and 123
Duration and credits:	Longitudinal, 2CHs
Staff coordinator:	X
Student coordinator:	X
Intended students:	Semester 1
Prerequisites:	None

يشتمل هذا المنهج علي كورسين أحدهما في المرحلة الأولى (1123) وثانيهما في الفصل الأول من المحلة الثانية (123), ويحتوي علي أساسيات اللغة الانجليزية اللازمة ليقراً المتعلم قراءة صحيحة مستحضراً قواعد النحو الانجليزي 'و النطق الصحيح للتأكد من مبررات توجيه القراءة و الحديث. يطلب من المتعلم كيف يلخص و يختصر المقالات الطويلة للتأكد علي قدرة فهم النصوص العربية 'و تدريبه علي أسس الترجمة بين اللغتين عبر تكليفات محددة.

Rationale:

The sources of health information in the world are still in English .The intended 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 borders with economic development and of globalization .So, passing an English language examination is an essential entry requirement to universities in Sudan.

General objectives:

By the end of this course, the student is expected to:

1. Correctly pronounce the medical terms, including those related to health services in the country.
2. Correctly read and show understanding of texts from medical books.
3. Express himself /herself in good English describing his daily activities, career ambitions, and present patients' health problems.

Specific objectives:

By the end of this course, the student is expected to:

1. Explain the signs used in dictionaries for correct pronunciation.
2. Pronounce medical terms, including those used in basic medical sciences, clinical sciences and health services.
3. Explain the prefix and suffix components of words, and word roots used in health and relate them to their original language, and explain the meaning of new words without frequent resort to a dictionary.
4. Read, correctly, loudly and in an acceptable speed, a paragraph from medical texts, and show understanding of the material read.
5. Write clearly and correctly, a dictated paragraph from medical texts, and show understanding of the material written.
6. Skim through new material from medical textbooks or journals to identify the main topics.

7. Search literature in English to find specific information.
8. Write notes from extensive articles and prepare charts and diagrams.
9. Enumerate the general ideas of any article and distinguish them from supporting information.
10. Identify and understand signal words in texts for classification, contrast, chronological, process, and cause and effect.
11. Translate three pieces (each 300 words) from English to Arabic, and three other from Arabic to English, both sets from medical literature.

Recommended textbooks and reading material:

- College notes
- The language of medicine in English -Tier Sky &Hall Regents, ISBN 0-13-52144-0

Sudanese studies (SUDN - 114) 2 CHs, Longitudinal course

Course Title:	Sudanese Studies
Symbol and Number:	SUDN - 114
Duration and Credits:	Longitudinal, 2 CHs
Staff Coordinators:	Ustaz Osama AL- amin
Student Coordinator:	X
Intended Students:	Semester 1
Prerequisites:	None

- يحتوي هذا المنهج على معرفه الطبيعة الجغرافية للسودان , عناصر السكان وتوزيعهم على البلاد , التطور التاريخى والحضارى , ملامح الاقتصاد السودانى و النظام التعليمى فى السودان , النظام الادارى , النظام القانونى بالسودان , النظام السياسى فى السودان وأخيرا الهوية والثقافة السودانية.

General objectives:

By the end of this course, the student is expected to be able to:

1. Describe the geographical nature of Sudan.
2. Classify the population and explain the distribution of them in country.
3. Discuss and compare between historical and culture evaluation.
4. Locate of the features Sudanese economy.
5. List the educational policies and the administrative regulations, which passed on the Sudan.
6. Discusses and compare the different Sudan's political system, which passed out of the country.
7. Recognize the legal system in Sudan.
8. Deepen the Sudanese's identity and culture.

9. Strengthen the spirit group and harmony, security and stability through a coherent social fabric.
10. Achieve national unity in the framework of pluralism and geographic and cultural diversity.

الأهداف العامة للمنهج (SUDN - 114):

- يهدف هذا المنهج بصورة عامة الى تزويد الطالب بالمعارف والمعلومات الاساسيه عن وطنه ومكوناته الجغرافيه والتاريخيه والاجتماعيه والثقافيه ونشاطاته الاقتصادية ونظمه السياسيه والتعليميه , وذلك لتقوية روح الجماعه والتدامج والانسجام والامن والاستقرار من خلال نسيج اجتماعى متماسك , ولتحقيق الوحدة الوطنية فى اطار التعدد والتنوع الجغرافى والثقافى وغرس وتعميق الولاء والانتماء للوطن والاعتزاز به وبانجازات الحضارية والثقافية ورموزه الوطنيه, والاسهام الفعال فى تأصيل الحضارة السودانية, وبناء السودان الحديث وتنميته والنهوض به والزود عنه والتمسك بوحدته اراضيه والدفاع عن امنه وأستقراره وسيادته.
- كما يهدف المقرر الى تعريف وتعميق مفهوم الهوية السودانية وماعليه من واجبات تجاه الوطن والمواطنين وضروره القيام بها قبل المطالبه بماله من حقوق, بالاضافة الى توسيع فهم وادراك الطالب بالثقافة الوطنية.

الأهداف الخاصة للمنهج (SUDN - 114):

بعد نهاية الكورس يجب ان يكون الطالب ملم بالمعلومات الاساسيه لكل محور من المحاور ادناه

اولاً: الطبيعة الجغرافية للسودان :

- اصل تسمية السودان .
- الموقع ودول الجوار .
- سطح الارض .
- المناخ والاقاليم النباتية .
- انواع التربة .
- نهر النيل واهميته للبلاد .

ثانياً: عناصر السكان وتوزيعهم على البلاد:

- جاذبية موقع السودان للمهاجرين
- هجرة العرب الى السودان .
- المجموعات السكانية فى السودان وهى :
- المجموعة الجاوية .

- البشاريون ، الامرار ، الهدندوة ، 4- البنى عامر
- المجموعة النوبية وتضم .
- الدناقلة والمحس والسكوت
- المجموعات العربية
- المجموعه الجعلية
- المجموعه الجهينية
- القبائل غير العربية
- المجموعة النيلية.

ثالثاً: التطور التاريخي والحضارى:

- العصور الحجرية فى السودان .
- العصر الحجرى القديم
- العصر الحجرى الوسيط.
- العصر الحجرى الحديث .
- حضارة المجموعات أ ، ب ، ج .
- حضارة كرمة .
- حضارة نبتة – مروى .
- العصر المسيحى
- a . مملكة نبتة.
- b . مملكة المغرة.
- c . مملكة علوة.
- الممالك الاسلامية
- مملكه الفونج.
- مملكه الفور.
- مملكه تولى .
- مملكه المسبغات.
- الحكم التركى المصرى .
- الثورة المهديه .
- الحكم الثنائى .

رابعاً : ملامح الاقتصاد السودانى :

- النشاط الزراعى :
- الزراعة المروية التقليدية .

- الزراعة المروية الالية .
- الزراعة المطرية التقليدية .
- الزراعة المطرية الالية .
- الثروة الحيوانية .
- الغابات .
- المياه والموارد المائية .
- الصناعة .
- التجارة .
- **خامساً : النظام التعليمى فى السودان:**

- التعليم فى السودان قبل الغزو التركى .
- التعليم فى العهد التركى .
- التعليم فى عهد الدولة المهديية .
- التعليم فى ظل الحكم الثنائى .
- السياسة التعليمية

- a. فى الفترة من 1956م – 1970م .
- b. فى الفترة من 1970م – 1990م .
- c. فى الفترة من 1990م – 2012م .

سادساً : النظام الادارى :

- السمات الادارية فى السودان .
- تطور نظام الحكم المحلى فى السودان .
- النظام الادارى الحالى.

سابعاً : النظام القانونى بالسودان :

- التطور التاريخى للنظام القانونى فى السودان .
- مقومات النظام القانونى السودانى الراهن .

ثامناً : النظام السياسى فى السودان:

- اسس قيام الدولة .
- استقلال السودان .
- التطور السياسى.

- a. الديمقراطية الاولى (حكومة الفريق ابراهيم عبود 1958م – 1964م) .
- b. الديمقراطية الثانية (1964م – 1969م) .

c. حكومة مايو (1969م – 1985م) .

d. الديمقراطية الثالثة (1985م – 1989م) .

e. النظام السياسى الحالى

تاسعاً : الهوية والثقافة السودانية:

- الهوية فى المفهوم المعاصر .

- الشخصية السودانية .

- المناطق الثقافية فى السودان .

Recommended Reading Material: -

- صلاح الدين الشامى ، السودان دراسة جغرافية ، دار المعارف ، الاسكندرية ، 2000م
- نعوم شقير ، تاريخ السودان ، تحقيق محمد ابراهيم ابوسليم ، دار الجيل بيروت، 1981.
- الشاطر بصيلى ،تاريخ وحضارة السودان الشرقى والاوسط ، الهيئة المصرية العامة للكتاب ، القاهرة ، 1972م .
- محمد ابراهيم بكر ، تاريخ السودان القديم ، مكتبة الانجلو المصرية ، القاهرة ، 1971م
- مبارك بابكر الريح ، الحضارة السودانية ، الخرطوم، 1974م .
- مكى شببيكة ، السودان عبر القرون ، مطبعة القريب ، بيروت ، 1967م .
- احمد عبدالله آدم ، قبائل السودان ، الخرطوم، 1995م .
- الفحل الفكى الطاهر ، تاريخ واصوا العرب بالسودان ، الخرطوم 1976م .
- عثمان السيد ، الاقتصاد السودانى، دار عزة ،الخرطوم ،2002م .
- محمد الحسن مكاوى ،التطورات الاقتصادية فى السودان ، مركز الانتاج الاغلامى ، الخرطوم ، 2008م.
- عبد الغزيز امين عبدالمجد، تاريخ التعليم فى السودان ،القاهرة ،1949م.
- وزارة التربية والتعليم ،مؤتمر سياسات التربية والتعليم ، الخرطوم ، 1990م .
- محمد خليفة حامد ، النظام القضائى السودانى ،الخرطوم ،2006م.
- محمد ابوالقاسم حاج حمد ، المازق التاريخى وافاق المستقبل ، دار تراث ، 2002م .
- ناصر السيد ، تاريخ السياسة والتعليم فى السودان ، ط2 ، دار جامعة الخرطوم للنشر ، الخرطوم ،1990م.
- تاج السر عثمان ، الدولة السودانية النشأة والخصائص ، الشركة العالمية للطباعة والنشر والتوزيع ، الخرطوم ، 2008م .
- يوسف فضل حسن ، مقدمة فى تاريخ الممالك الاسلامية فى السودان الشرقى 1450 – 1821م ، جامعة الخرطوم، 1989م

Computer Science (COMP -115)-2 CHs,3 weeks course

Course title:	Computer Sciences
Symbol and number:	COMP-116
Duration and credits:	2 weeks, 2 CHs
Staff coordinator:	X
Student coordinator:	X
Intended Students:	Semester 1
Prerequisites:	None

يشتمل الكورس علي مقدمات في الحاسوب العام تعين الطالب علي معرفة أجزاء الحاسوب و تركيباته الأساسية التي تساعده علي توصيل الطرفيات و الإضافات,و التعامل في البرمجيات الشائعة مثل وُيردُ و بوار بوينت و الصّفحة الواجهة و أنترنت إكسبلورر.و تؤدي هذه المعرفة الي كتابة النصوص ,و صياغة الجداول ,و إجراء العروض ,و الدخول و الإفادة من شبكة المعلومات الدولية خاصة في المعلومات الصحية المتوفرة فس مئات الآلاف من المواقع الدولية ,و التأكد علي تلك التي تعين علي إجراء البحوث.

Outline

The course is an intensive focusing on the basic principles of computer electronics and applications relevant to health science education. This is mainly by the hand-on expertise in dealing with famous programs like DOS, word, Excel, A CCESS and internet Explorer. The use of CD is covered as well as sending e-mails and navigating the internet for health information including how to access medical journals, and communicate with scientists worldwide.

Rationale

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 and clinical examination.

Students and teachers 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 presentation for the health team and profession at large. Knowledge of programs like words, EXCEL, PowerPoint is indispensable for every learner or teacher. Computer is important for students both in the developed or developing world, more so for the latter, who might not have voluminous libraries in their colleges and have to utilize the virtual libraries available all over the world. Medical journals 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.

General Objectives:

By the end of the course students are expected to:

1. Be familiar with the parts of the computer.
2. Use word processing, spread sheets and presentation programs.
3. Add or remove programs following installation instructions.
4. Add , remove and upgrades programs when needed.
5. Uses internet to communicate and retrieve health information.

Specific Objectives:

By the end of the course students are expected to:

1. Identify major components and chips, external connections and peripherals, upgrading options, and can by a unit suiting particular use.
2. Add and remove programs, and connect and disconnect peripherals.
3. Create a Microsoft word document , make page margins ,header and footer , diagrams and graphics, and show ability to cut ,copy and paste ,find and replace and add footnotes and bullets, spelling and grammar checks, fonts and colors, indenting ,bullets ,graphic and diagrams ,use templates and print.
4. Create workbooks and worksheets using Excel, and show ability to make rows and columns, edit data in worksheets ,analyze data, filter and sort formulas, and draw charts.
5. Create slides by PowerPoint and make presentations, and show ability to insert photos, clip arts charts, animations, and tables .It includes running presentations with transitions and timings settings, sound, video, and printing handout from presentations.
6. Design a front-page and webpage, and show ability to add web pages, use images on web pages, get report on web status, create lists, bookmarks and text hyperlinks.
7. Define internet and mention its history and size and show ability to communicate and carry out search for health and general information.
8. Make chapter summary, save information, download programs, view document off -line and create setup conclusion.
9. Get a file from FTP server, address FTP and send a file via FTP.

Educational strategy and methods:

- Lectures
- Practical sessions
- Assignments

Evaluation:

Final practical exam

Resources:

Computer lab

Recommended Reading material:

- College notes

Nursing History and Ethics (NUR-HIS-116) 2CHs, 2 weeks course

Course title:	Nursing History and Ethics
Symbol and number:	NUR-HIS-116
Duration and credits:	2 weeks, 2 CHs
Staff coordinator:	X
Student coordinator:	X
Intended Student:	Semester 1
Prerequisites:	None

This is a two weeks block course consist of nursing history describe nursing development in Europe, Arabic word and in Sudan and consist of general ethic in nursing profession

يشتمل الكورس علي تاريخ التمريض وتطور التمريض عالميا وعربيا وبالسودان ويحوي الكورس علي اخلاقيات مهنة التمريض كما يشتمل ايضا علي تعريف الطالب بواجبات وحقوق المريض وواجبات وحقوق الممرض

Rationale:

The course provides the students with detailed information about the rules and regulations that govern nursing profession towards patient, community, and colleagues. Also this course provides the students with general information about the historical development of the nursing profession throughout all stages worldwide and locally.

General objectives:

By the end of this course the student will be able to:

1. Understand the general ethics in nursing profession
2. Discuss the historical development of nursing in the world

Specific Objectives:

By the end of this course the student will be able to:

1. Discuss the history of nursing in Islam and in the Arab world
2. Discuss the history of nursing in world specifically in Europe & USA.
3. Discuss the history of nursing in Sudan.
4. Discuss the ethics, attitudes laws & regulation of nursing profession.
5. Identify the nurse duties & responsibilities towards the patient, his family and the community.
6. Identify the patient rights and the different ways to protect both workers' & patients' rights
7. Identify warning areas in nursing practice and how to avoid them
8. Identify the duties of nurses towards their profession.
9. Identify and discuss the duties of nurses towards their colleagues within the career.

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture hall
- Library

Recommended Reading material:

- Sister Nancy, Principles and practices of Nursing. Vol I, N>R Publishing Home. Indore, 4th edition.1984
- Virginia Henderson et al, "Principles and practice of Nursing". Mc Milan Publishing Co., 6th edition. London.

Human body structure & function- I (NUR-ANAT-117) 3 CHs, 4 weeks

Course title:	Human body structure And Function I
Symbol and number:	NUR-ANAT-117
Duration and credits:	4 weeks, 3CHs
Staff coordinator:	X
Student coordinator:	X
Intended Student:	Semester 1
Multidisciplinary group:	Course coordinator Anatomists Physiologists
Prerequisites:	None

عند انتهاء الطالب من هذا الكورس يمكنه وصف وتوضيح تشريح جسم الانسان وخصوصا وظيفة وشكل كل الانسجة والاعضاء والاجهزة المكونة لجسم الانسان مثل الجهاز التنفسي والجهاز القلبي الوعائي والجهاز البولي والعصبي والهضمي ويجب علي الطالب التدريب داخل المشرفة

This is four weeks course upon the successful completion of this course the student will be able to describe and explain, at a basic level, the gross

anatomy of human body, especially the functional aspects of major tissues, organ, and system including respiratory, cardiovascular digestive, urinary, reproductive, endocrine and nervous there are demonstration room and museum

Rationale

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.

General Objectives:

By the end of this course the student will be able to:

1. Understand the microscopic and anatomical components of the human body
2. Understand the physiological function of the human body

Specific Objectives:

By the end of this course the student will be able to:

1. Discuss the process of tissue-formation and tissue repair
2. Differentiate the bone- types, structure, axial & appendicular skeleton and bone formation & growth.
3. Describe joints and joint movement.
4. List the types and structure of muscles.
5. Describe muscle movements, muscle tone, physiology of muscle contraction, levels and maintenance of posture.
6. Discuss abdominal wall (anterior and posterior)

7. Describe structure and function of alimentary tract and accessory organs of digestion (liver, spleen, gall bladder and pancreas).
8. Identify the structure and function of organs of urinary system (kidney, ureters, urinary bladder and urethra)
9. Discuss the mechanism of urine formation
10. Describe the structure and functions of the skin and skin appendages
11. State the structure and function of pituitary and adrenal glands.
12. Identify the structure and function of thyroid, Parathyroid and thymus glands
13. Identify the structure and function of the reproductive organs: female (uterus, fallopian tubes, ovary, cervix, vagina, perineum and pelvis). Male (scrotum, prostate, external reproductive organs and the inguinal canal).
14. Identify the major blood vessels
15. Identify the major lymphatic drainage of each part of the body

Educational strategies and methods:

- Lectures
- Assignments
- Practical training

Evaluation and assessment methods:

- Continuous evaluation 10%
- Written examination 60%
- Practical examination 30%

Required resources:

- Lecture room
- Dissection room

- Library
- Physiology lab

Recommended reading material:

- Green, J.H. Introduction to Human Physiology. 1st Edition, New York: Oxford University Medical Publication, 1963.
- Hartenstein, R. Human Anatomy and Physiology Principles and Applications. 1st Edition, New York: D.VanNostrand publishers, 1976.
- Khurana, I and Arushi. Textbook of Anatomy and physiology for Nurses and Allied Health Science. 1st Edition, India: CBS publishers, 2009.
- Khurana, I and Arushi. Textbook of Anatomy and Physiology for Nurses and Allied Health Science. 1st Edition, India: CBS publishers, 2009.
- Miller, M.A ET. Al. Kimber – Gray – Stackpole’s Anatomy and Physiology. 17th Edition, New York: Macmillan publishers, 1977.
- Singh, Inderbir. Anatomy and Physiology for Nurses. 1st Edition, India: JaypeeBrothers Medical publishers, 2005.
- Tortora, G.J and Derrigkson, B. Principles of Anatomy and Physiology. 11thEdition, USA: John wiley and son’s publisher, 2007.
- Tortora, G.J. Atlas of the Human Skeleton. 3rd Edition, USA: John wiley and sons Publishers, 2003.
- Watson, Roger. Anatomy and Physiology for Nurses. 11th Edition,.Inida, Harcourt publishers Ltd. 2000.

Fundamentals of nursing 1 (NUR- FUND-118) 5CHs, 5 weeks course

Course title:	Fundamental of nursing - I
Symbol and number:	NUR- FUND-118
Duration and credits:	5 weeks, 3CHs
Staff coordinator:	X

Student coordinator:	X
Multidisciplinary group:	Course coordinator Medical nursing instructors Surgical nursing instructors
Intended students:	Semester 1
Prerequisites:	Human body structure and function

This is course divided to two parts in semester one and other part in semester two. This course dealing with skills and ability that facilitate the giving care to patient and (1) the characteristic of nursing profession (2) first aid (3) bed making (4) bed bath (5) oral hygiene (6) vital sign (7) parental injection (8) nasogastric tube

يشتمل الكورس علي مقررین مقسمة علي الفصل الدراسي الاول والفصل الدراسي الثاني ويهتم الكورس بالمهارات والقدرات التي تسهل تقديم الرعاية للمريض وتوضيح خصائص مهنة التمريض والاسعافات الاولية وفرش سرير المريض وحمام المريض ونظافة الفم واخذ العلامات الحيوية والحقن وتركيب انبوب المعدة

Rationale:

The course provides the students with basic nursing skills required in nursing care (nursing process) for ill patients in all health institutions and services.

General Objectives:-

By the end of this course, the student will be able to:

1. Define the characteristics of nursing profession
2. Define the general concepts of first aid.
3. Understand the rules and regulation of drug administration.
4. Measure and record the vital signs
5. Understands the principles of feeding

Specific Objectives:

By the end of this course, the student will be able to:

1. Define nursing concepts, philosophy and objectives.
2. Discuss the characteristics, nature , scope of nursing practice, functions & role of the nurse.
3. Discuss and perform first aid and emergency nursing care
4. Discuss methods of prevention of health hazards and accidents.
5. Define fractures.
6. Discuss the characteristics of giving ambulant care
7. Demonstrate first aid for fractures, muscles, joints, ligaments slings.
8. Provide nursing care for patients with fractures by bandages and splints.
9. Provide nursing care for patients with poisoning convulsion and epilepsy, foreign bodies in the eye, nose, and ear.
10. Perform skin care for burned patients both chemically & physically.
11. Apply first aid for wounds, hemorrhage and burns.
12. Apply first aid for sun stroke and other thermal injuries.
13. Apply first aid for dog's bites and snake bites.
14. Describe first aid for various emergency situations (Asphyxia, epistaxis, respiration failure, cardiac arrest, shock and coma.
15. Discuss hospital admission and discharge and the roles and responsibilities of the nurse.
16. Understand guidelines for taking vital signs.
17. Discuss body temperature (physiology, regulation, factors affecting body temperature)
18. Measure body temperature: sites ,use of equipment and techniques & special considerations
19. Describe temperature alterations: hyperthermia, heatstroke, hypothermia
20. Apply hot and cold compresses.

21. Discuss the pulse rate (physiology and regulation, characteristics of the pulse, factors affecting pulse).
22. Demonstrate taking the pulse rate: sites, equipment, techniques, and alterations in pulse.
23. Discuss respiration (physiology and regulation, mechanics of breathing, characteristics of respiratory rate and factors affecting respiration).
24. Discuss blood pressure (physiology and regulation, characteristics of the blood pressure, and factors affecting the blood pressure)
25. Demonstrate measuring blood pressure: sites, equipment and technique, special consideration and alterations in blood pressure
26. Describe pain and pain management.
27. Record and document vital signs
28. Change beddings for occupied & unoccupied beds.
29. Admit patients to wards.
30. Administer bed bath and shower for patients.
31. Administer mouth care and hair care for patients
32. Discuss health assessment (purposes, process of health assessment, health history physical examination -inspection, palpation, percussion, auscultation.
33. Demonstrate the ability to mobilize the patient into different positions.
34. List principles of prescriptions, safe administration of medications and medication errors
35. Fill drug forms correctly, stating routes of administration
36. Explain the nurses' responsibility in storage and maintenance of drugs.
37. Calculate dosages for medication
38. Define terminologies and abbreviations used in prescriptions of medications
39. Demonstrate oral drugs administration (oral, sublingual and buccal)
40. Discuss parenteral therapies.

41. Discuss general principles of decontamination and disposal of syringes and needles
42. List types of parenteral therapies, types of syringes, needles, canulas, and infusion sets
43. Discuss protection from needle stick injuries and safe administration of drugs using syringes and other routes of parenteral therapies.
44. Discuss and demonstrate intradermal injections (purpose, site, equipment, procedure and special considerations)
45. Discuss and demonstrate subcutaneous injections (purpose, sites, equipment, procedure and special consideration.
46. Perform and practice administration of intramuscular injection (purpose, site, equipment, procedure, and special considerations)
47. Perform and practice administration of intra venous injections(purpose, site, equipment, procedure and special considerations)
48. State the role of nurse in advanced techniques - lumbar puncture, abdominal paracentesis, thoracocentesis and bone marrow aspiration .
49. Perform and practice administration of medications by inhalation, drops, suppositories and topical application of medicines.
50. Discuss the importance of nutrition
51. List factors affecting nutritional needs and assessment of nutritional needs variables
52. Describe routes of feeding (oral, enteral(naso gastric, gastrostomy) and parenteral), equipment, procedure and special considerations.
53. Apply protection against decubitus ulcer and care for it when it happens
54. Keep accurate patient' records
55. Practice the basics of personal hygiene and bedding

Educational strategies and methods:

- Practical Skill lab sessions.

- Hospital wards teaching
- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation-assignments 10%
- Skill lab log sheet
- Written examination 30%
- Practical lab Exam 60%

Required resources:

- Lecture room
 - Library
 - Skill laboratory
 - Hospital wards
-

Recommended Reading material:

- Ann Marriner, The Nursing Process- A Scientific approach to Nursing care, CV Mosbyand Co., 3rd edition, 1979.
- Barbara Kosler et al, "Fundamentals of Nursing concepts and procedure", Addison Welsloy publishing Co., 13th edition.
- Brown Ammy Francis, " Medical Nursing", W.B Saunders and Co., USA, 3rd edition
- Esther McClain R N, "Scientific Principle of Nursing", current technical literature publications, Bombay, 1st edition. 1969.
- Elbert et al, "Scientific principles in Nursing", C V Mosby and Co., USA, 8th edition. 1974.
- Potter and Perry, "Fundamentals of Nursing concepts-process and practice", 3rd edition. C.V Mosby and Co., London, 1985.

- First Aid Manual, The authorized manual of St. John's Ambulance. Dorling Kindersly, London.
- Hoodmark Rohweden, "Scientific Foundation of Nursing", 3rd edition. J B Lippincott Co., Philadelphia, 1975.
- Lois Dakes, "Illustrations of Bandaging and First Aid", E and S Livingstone Ltd, Teviot plane, 4thediton.
- Norman G. Kirby and Sliphen J Mather, Bailliers' hand book of First Aid, 7th edition. All India Traveller Book Seller.Delhi.

Biochemistry (NUR-BIOC-119) 2CHs, longitudinal course

Course title:	Biochemistry
Symbol and number:	NUR-BIOC-119
Duration and credits:	Longitudinal -2CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group:	Course coordinator Biochemist
Intended Students:	Semester 1
Prerequisites:	None

This is longitudinal course include basic knowledge of biochemistry Structure, function of cell. Transport mechanism, composition of carbohydrates, protein, vitamins and amino acids

يشتمل الكورس علي المعرفة الاساسية للكيمياء الحيوية مثل تركيب ووظائف الخلية الحيوية الية الضغط الازموزي مكونات الكربوهيدرات, البروتين, الفيتامينات والاحماض الامينية

Rationale:

The practice of nursing requires basic knowledge of biochemistry and broad information about the process of metabolism in the human body.

General Objectives:

By the end of this course, the student is expected to have:

1. Basic knowledge of biochemistry
2. Understand the major biochemical process in the metabolism of nutrients.

Specific Objectives:

By the end of this course, the student will be able to:-

1. State the significance of biochemistry in nursing.
2. Review the structure, composition and functions of cell.
3. Discuss the prokaryote and eukaryote cell organization.
4. Define transport mechanism: diffusion, osmosis, filtration, active channel and sodium pump.
5. Discuss the acid base balance, diagnostic tests and PH buffers.
6. List the types of solutions and define solubility, physical properties of solutions, and osmosis.
7. Discuss types, structure and composition of carbohydrates .
8. Differentiate between monosaccharide, disaccharides, polysaccharides, and oligosaccharides explaining their metabolism (glycolysis, gluconeogenesis and glycogenolysis).
9. Discuss the regulation of blood glucose level (investigations and their interpretations)
10. List the types, structure, composition and uses of fatty acids.
11. Discuss the metabolism of fatty acids (breakdown and synthesis)
12. Explain the metabolism of bile salts, bilirubin, and vitamin D.
13. List the types, structure, composition and uses of amino acids and proteins.
14. Discuss the metabolism of Amino acids and proteins
15. Define chromatography.
16. Differentiate between the enzymes and co-enzymes stating their classification, properties, kinetics and inhibition mechanism.

17. Define vitamins and minerals explaining their structure, classification, properties, absorption, storage, transportation and their daily requirement).

Educational strategies and methods:

- Lectures
- Assignments
- Practical lab sessions

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture hall
- Library
- Physiology/biochemistry lab

Recommended reading material:

- Jacob & Anthikad. Biochemistry for Nurses 2nd edition. Daryaganj New Delhi, Jaypee Publications, 2004.
- Holum John R. Fundamentals of General, Organic and Biological Chemistry. John Wiley & Sons, Inc. USA, 1978.
- Malhotra V.K. Biochemistry for Students. 11th edition. Daryaganj, New Delhi, Jaypee Publications.
- Reddy. Medical Biochemistry for Nurses. 2nd edition. Daryaganj, New Delhi, Jaypee Publication, 2008.
- Satyanarayan. Essentials of Biochemistry. 2nd edition. Kolkata, India, SIMCE Publications, 2002.

Human body structure and Function-II (NUR-NAT-125) 3CHs, 3weeks course

Course title:	Human body structure and function II
Symbol and number:	NUR-NAT-125
Duration and credits:	3weeks, 3CHs
Staff coordinator:	X
Student coordinator:	X
Intended Students:	Semester 2
Multidisciplinary group:	Course coordinator Anatomists Physiologists
Prerequisites:	None

Rationale:

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.

General objectives:

By the end of this course the student will be able to:

1. Understand the microscopic and anatomical components of the human body
2. Understand the physiological function of the human body

Specific objectives:

By the end of this course, the student will be able to:

1. Describe the structure and function of the eye, ear, and nose and tongue (Auditory and olfactory apparatus).
2. Discuss the structure of the heart and the blood vessels.
3. Describe the lymphatic system (thymus gland, lymph nodes, and spleen and lymphatic vessels).
4. Discuss blood formation, composition, blood groups and blood coagulation system
5. Describe the functions of the heart, conduction, cardiac cycle and coronary circulation.
6. Describe the structure of the organs of respiration.
7. Identify the muscles of respiration: intercostal and diaphragm.

8. Discuss the functions of respiratory organs and physiology of respiration, pulmonary ventilation volumes, and mechanics of respiration, gaseous exchange in the lungs and in tissues.
9. Identify the anatomical and physiological changes of the respiratory system during disease.
10. Identify the clinical applications and implications of basic anatomy and physiology of respiratory system in nursing.
11. Define the structure and function of nervous system.
12. Discuss the structure and function of the brain, spinal cord, cranial nerves, spinal nerves and peripheral nerves.
13. Identify the structure of the female reproductive organs.
14. Identify the structure of the male reproductive organs.
15. Identify the structure of the breast.
16. Identify and discuss the various structural alterations in disease.
17. Discuss the clinical applications and implications of anatomy and physiology of the reproductive system in nursing.
18. Discuss the basics of cellular division - DNA, mitosis, meiosis, spermatogenesis and oogenesis.
19. Discuss the functions of female reproductive organs, female sexual cycle and functions of breast.
20. Discuss the functions of the male reproductive organs and the male fertility.
21. Discuss the basics of human embryological development
22. Identify the clinical applications and implication of anatomy and physiology of the reproductive system in nursing.

Educational strategies and methods:

- Lectures
- Assignments

- Practical sessions in dissection room

Evaluation and assessment methods:

- Continuous evaluation 10%
- Final written examination 60%
- Practical examination 30%

Required resources:

- Lecture room
- Dissection room
- Library
- Physiology lab

Recommended Reading material:

- Green, J.H. Introduction to Human Physiology. 1st edition. New York: Oxford University Medical Publication, 1963.
- Hartenstein, R. Human Anatomy and Physiology Principles and Applications. 1st edition. New York: D.VanNostrand publishers, 1976.
- Khurana, I and Arushi. Textbook of Anatomy and physiology for Nurses and Allied Health Science. 1st edition, India: CBS publishers, 2009.
- Khurana, I and Arushi. Textbook of Anatomy and Physiology for Nurses and Allied Health Science. 1st edition, India: CBS publishers, 2009.
- Miller, M.A ET. Al. Kimber – Gray – Stackpole’s Anatomy and Physiology. 17th edition. New York: Macmillan publishers, 1977.

- Singh, Inderbir. Anatomy and Physiology for Nurses. 1st edition. India: JaypeeBrothers Medical publishers, 2005.
- Tortora, G.J and Derrigkson, B. Principles of Anatomy and Physiology. 11th edition. USA, John wiley and son's publisher. 2007.
- Tortora, G.J. Atlas of the Human Skeleton. 3rd edition, USA: John Wiley and Sons Publishers, 2003.
- Watson, Roger. Anatomy and Physiology for Nurses. 11th edition. India, Harcourt Publishers Ltd., 2000.

Fundamental of Nursing II (NUR-FUND-126) 4CHs, 5weeks course

Course title:	Fundamental of Nursing II
Symbol and number:	NUR-FUND-126
Duration and credits:	5weeks, 4CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group:	Course coordinator Medical nursing instructors Surgical nursing instructors
Intended students:	Semester 2
Prerequisites:	Human body structure And Function-1

This is parts two of fundamental nursing also dealing with skills and ability that facilitate the giving care to patient and (1) infection control (2) enema (3) collection of specimen (4) oxygen therapy (5) catheterization (6) wound care (7)

يهتم الكورس بالمهارات والقدرات التي تسهل تقديم الرعاية للمريض مثل التحكم في الالتهابات والحقنة الشرجية وطرق جمع العينات والمعالجة بالاكسجين وتركيب القسطرة والاهتمام بالجروح

(NUR-NAT-125)

Rationale:

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.

General objectives:

By the end of this course, the student should be able to:

1. Discuss the principles of infection control
2. Manage airways and administer oxygen therapy
3. Understand the principles of waste elimination
4. Perform urine examination.
5. Apply wound care
6. Provide care for dying patients.

Specific Objectives:

By the end of this course, the student should be able to:

1. Define the general concepts of infection control (nature of infection , chain of infection transmission, defenses against infection: natural and acquired, hospital acquired infection (noso-comial infection).
2. Define concepts of asepsis: medical and surgical.
3. Demonstrate the isolation precautions-barrier nursing.
4. Perform hand washing (simple, hand antiseptis and surgical antiseptis (scrub).
5. Perform and apply personal protecting equipment (types, uses and technique of wearing and removing).
6. Describe decontamination of equipment and units.
7. Discuss standard safety precautions (Universal precautions).
8. Discuss types of hospital waste, hazards associated with hospital waste and decontamination of hospital waste.
9. Define and perform sterilization by steam under pressure , autoclave , dry heat , oven , fire and chemical substances.
10. Define and perform disinfection by boiling and chemical substances
11. Demonstrate using personal protective equipment and disposal of sharps.
12. Define urine & bowel waste elimination
13. Perform urinary catheterization for both male and female.
14. Review the physiology of urine elimination, composition and characteristics of urine
15. Discuss factors influencing urination and alteration in urine elimination
16. Describe methods for collection of urine specimen: observation and urine testing
17. Apply procedures for special circumstances (providing urinal/bed pan, condom drainage ,perineal care catheterization ,care of urinary diversions and bladder irrigation.

18. Discuss the physiology of bowel elimination, composition and characteristics of faeces
19. List the factors affecting bowel elimination
20. List methods of collecting a specimen of faeces and observation
21. Assist in bowel elimination -assessment and equipment.
22. Discuss and apply procedures on special circumstances (passing enemas, suppository, bowel wash and care of stomas.
23. Administer oxygen therapy.
24. Discuss physiology of the cardiovascular and respiratory systems
25. List the factors affecting oxygenation and alteration in oxygenation.
26. Discuss nursing interventions in oxygenation (assessment, types and equipment).
27. Perform the following procedures: maintenance of patent airway, oxygen administration, suction inhalations, chest physiotherapy, postural drainage, and observation of sputum, care of chest drainage, pulse oximetry and CPR- basic life support.
28. Administer inhalation therapy (dry and moist).
29. Define and discuss the concept of perioperative nursing (preoperative phase-
 - i. preparation of patients for surgery, intraoperative- operation theatre set up and
 - ii. environment and the postoperative- recovery unit, post-operative unit and
 - iii. postoperative care).
30. Discuss wound care (types, classification, wound healing process, factors affecting wound healing, and complications of wound healing and surgical asepsis.
31. Apply wound care (types, equipment, procedures - dressing, suture care, care of drainage).

32. Prepare dressing equipment
33. Perform dressing of clean wounds , infected wounds and removal of the stitches and bandages
34. Test the urine for sugar , acetone , albumin and bile
35. Prepare the patient for surgical procedure
36. Collect specimens of blood, urine, stool and swabs
37. Provide post mortem care for deceased patients.

Educational strategies and methods:

- Lectures
- Assignments
- Practical training in skill lab and hospital wards

Evaluation and assessment methods:

- Continuous evaluation 10%
- Final Written examination 40%
- Practical Exam 50%

Required resources:

- Lecture hall
- Skill lab
- Library
- Hospital wards

References and recommended reading material:

- Ann Marriner, The Nursing Process- A scientific approach to nursing care. 3rd edition. CV Mosby and Co., 1979.

- Barbara Kosler et al, Fundamentals of nursing concepts and procedure, 13th edition. Addison Welsloy publishing Co.
- Brown Ammy Francis, Medical Nursing. 3rd edition .W.B Saunders and Co., USA.
- Esther McClain R N, Scientific principles of nursing. 1st edition. Current technical literature publications. Bombay, 1969.
- Elbert et al, Scientific principles in nursing. 8th edition. C V Mosby and Co. USA, 1974.
- Potter and Perry, Fundamentals of nursing concepts-process and practice. 3rd edition. C.V Mosby and Co., London, 1985.
- First aid manual, The authorized manual of St. John's Ambulance. Dorling Kindersly, London.
- Hoodmark and Rohweden, Scientific foundation of nursing,3rd edition. J B Lippincott Co., Philadelphia, 1975.
- Lois Dakes, Illustrations of Bandaging and First Aid. 4thediton. E and S Livingstone Ltd, Teviot plane.
- Norman G. Kirby and Sliphen J Mather, Bailliers' Hand book of first Aid. 7th edition. All India Traveller Book Sellow, Delhi.
- Sr Nancy, Principles and practices of nursing. Vol I, 4th edition. N>R Publishing Home. Indore, 1984.
- Virginia Henderson et al, Principles and practice of Nursing. 6th edition. McMilan Publishing Co., London.

Microbiology and parasitology (NUR-MICRO-127) 3 CHs, 3weeks
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Course title:

Microbiology & parasitology

Symbol and number:	NUR-MICR-127
Duration and credits:	3weeks,3 CHs
Staff coordinator:	X
Student coordinator:	X
Intended Students:	Semester 2
Multidisciplinary group:	Course coordinator Microbiologist Parasitologist
Prerequisites:	None

Rationale:

Insects are responsible for transmission of so many diseases. In Sudan, many endemic diseases are caused by micro-organisms and parasites e.g. malaria, bilharsiasis, tuberculosis etc... . These diseases have an impact on population's health and economy. As nurses are major part of the health service providers, they need to have basic knowledge about diseases caused by micro-organisms and parasites.

General objectives:

By the end of this course, the student should be able to:

1. Classify microorganisms-bacteria, viruses, fungi and parasites
2. Understand the principles of sterilization and disinfection
3. Demonstrate knowledge of basic immunology
4. Discuss methods of collection, handling and transportation of various specimens

Specific objectives:

By the end of this course, the student should be able to:

1. Classify bacteria and discuss the different types and shapes of bacteria- staphylococci, streptococci, Diplococci, bacilli and Spirochetes
2. Identify the methods and techniques to study bacteria-staining and culture.
3. List the factors influencing the growth of bacteria..
4. Define infection, types, mechanism, route of entry, sources and factors influencing infection.
5. Identify the role of nurses in infection control program and, bio-medical waste management.
6. Define viruses and discuss their characteristics, bacteriophage and diseases caused by viruses.e.g hepatitis, HIV, rota virus, measles etc...
7. Discuss diseases caused by other microorganisms-spirochetes, fungi and mycoplasma
8. Define immunity, immune response and the antibody-antigen reaction.
9. Define reactions- allergy/ hypersensitivity
10. Discuss immunization and vaccination.
11. Classify and discuss the structure, life histories and types of human protozoa- entamoebiasis, plasmodium, trypanosome, giardia, leishmania and trichomonas.
12. Classify and discuss the structure, life histories and types of human helminthes parasites: Taenia solium , Taenia saginata,Ascaris, Ancylostoma, Enterobius, Trichura, Filaria and Dracunculus.
13. Discuss the gross structure of common arthropod vectors: Louse, bed bugs, fleas, mosquitos (male and female), mite and tick& housefly

Educational strategies and methods:

- Lectures
- Practical Lab sessions

Evaluation and assessment methods:

- Final written exam

Required resources:

- Class room
- Microbiology lab
- Parasitology lab

Recommended Reading material:

- Dey,N.C and Dey,T.K. . Medical parasitology.8th edition.
Allied Agency Publishers, India. 1980.
- Gupte, Satish. Short Text Book of Medical Microbiology.8th
edition. Jaypee publishers, India. 2002.
- Mehrotra,R M L. Microbiology for Medical Students. 3rd edition.
College book publishers, India. 1979.
- Powar,C.B and Dagainawala, H.F. General Microbiology. Ist edition.
Himalaya publishers, India. 1982.
- Pelczar,J.R. al et. Microbiology. 4th edition. Tata McGraw Hill
Publication, New York. 1978.

**Community health nursing 1(NUR-HED-128) 2CHs, 3 weeks
course**

Course title:	Community health nursing 1
Symbol and number:	NUR-HED-128
Duration and credits:	3 weeks, 2CHs
Staff coordinator:	X
Student coordinator:	X
Intended students:	Semester 2
Multidisciplinary group:	Course coordinator Community nurse
Prerequisites:	None

Rationale:

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.

General objectives:

By the end of the course, the student should be able to:

1. Define health and disease
2. Understand the principles of prevention and health promotion
3. Discuss the basics of environmental health

Specific objectives:

By the end of this course, the student should be able to:

1. Discuss the concept of health and disease
2. Define the characteristics of a healthy person
3. Discuss the components and principles of primary health care

4. Discuss the evolution of the concept of community health and community health nursing.
5. List the various factors influencing health in the community
6. Define the health teams and their role in health and disease
7. Demonstrate the ability and skills to maintain and promote individual health and environmental hygiene.
8. Discuss the hazards of occupational disease process and levels of prevention
9. Discuss the principles of health promotion and prevention.
10. Discuss the basics of environmental health, housing and community sanitation, healthy drinking water, disposal of waste

Educational strategies and methods:

- Lectures
- Assignments
- seminars
- Visits to primary health care centers, water purification station, dairy products factory soft drinks factory, landfill dumpster of wastes

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture room
- Library
- Transport for visits

Recommended reading material:

- Barbara Walton Sprodley, Community health nursing – Concepts & Practice. 2nd edition. Little Brown & Co., 1985.
- Wilfied H Pauy, Communicable Diseases, 3rd edition. Hodder& Stoughton. 1979.
- Dr.VidyaRatan, Handbook of preventive & social medicine. 8th edition. Jaypee brothers Medical Publishers. 1988.
- J.E. Park, Textbook of preventive and social medicine.
- Kasthuri Sundar Rao, Community health nursing.

Behavioral Sciences (NUR-BEHAV-129) 2CHs,2 weeks course

Course title:	Behavioral Sciences
Symbol and number:	NUR-BEHAV-129
Duration and credits:	2 weeks, 2CHs
Staff coordinator:	X
Student coordinator:	X
Intended Students:	Semester 2
Multidisciplinary group:	Course coordinator Psychologists Community nurse
Prerequisites:	None

This is two weeks course to include introducing psychology and psychoanalysis.

Rationale:

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

General Objectives:

By the end of this course, students are expected to:

1. Demonstrate knowledge of the psychosocial aspects of human development.
2. Recognize the significance of effective communication in the health provision process.

3. Understand the genetic, developmental, and environmental factors that control human behavior.
4. Clarify the values and attitudes that distinguish the medical profession from others

Specific objectives:

By the end of this course, students are expected to:

1. Recognize the factors that affect the health service provider and patient relationship.
2. Recognize and give examples for non professional behavior.
3. List the skills necessary for effective communication and discuss ways to improve them.
4. Identify the different personality styles and their impact on the nurse - patient relationship.
5. Define the terms-family and community and discuss the different types of family structure and the family role in dealing with health issues.
6. Discuss the effects of socioeconomic status on health.
7. Define culture and discuss the cultural influences on health behavior.
8. Recognize the effect of multi cultural diversity on nurse- patient relationship.
9. Define behavioral medicine and identify the role of stress in disease.
10. Recognize and discuss the psychosocial aspect of illness and health.
11. Discuss the different stages of learning in humans.
12. Define psychology and outline the psycho- social theories of behavior.

Educational strategies and methods:

- Lectures
- assignments

Evaluation and assessment methods:

Mid written exam	20%
Final written exam	80%

Required resources:

Lecture room.

Library

Recommended Reading material:-

- Bhatia and Craig. Elements of psychology and mental hygiene for nurses in India, 26th edition. Impression and Hyderabad, India
Publisher orient Longman Pvt. Ltd., 2003.
- Hilgard Eratal. Introduction to psychology, 7th edition. New York
Publisher Harcour Braces Joyanorich, 1979
- Morgan, C.T. et al. Introduction to psychology, 7th edition. Delhi,
Publisher Tata Mcgraw Hill Company Ltd., 2005.
- Robert A. Baron. Psychology. 3rd edition (Indian. Ed. LPE), New
Delhi, Pearson Prentice Hall. 2007.

Nutrition in health and illness (NUR-NUT-211) 3CHs, longitudinal

Course title:	Nutrition in health and illness
Symbol and number:	NUR-NUT-211
Duration and credits:	Longitudinal, 3CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Dietitian
Intended students:	Semester 3
Prerequisites:	Biochemistry NUR-BIOC-116

Outlines

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) 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.

Rationale:

This course enables the students to understand the daily requirement of nutrition for a normal individual and variations required during various physiological and pathological conditions.

Also to learn and understand various methods of food preparation, preservation and maintenance of food Hygiene

General objectives:

By the end of this course the student will be able to:

1. Discuss the different types of nutrients, their importance, sources, functions, and problems due to their deficiencies.
2. Discuss the effect of diet therapy on the different age groups.

Specific objectives:

By the end of this course, the student will be able to:

1. Define various terminologies used in nutrition
2. Define balanced diet , and plan the diet according to physiological needs
3. Discuss the different types of nutrients, their importance, sources and problems due to deficiency.
4. Discuss the importance of diet therapy in treatment of some diseases.
5. Explain the suitable diet in different types of health problem and diseases.
6. Apply the principles of food preparation in the practical field effectively.
7. Demonstrate the ability to prepare the food for persons with different health problem.
8. Demonstrate the ability to teach individuals with health problem about suitable diet.

Educational strategies and methods:

- Lectures

- Assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written exam 80%

Required resources:

- Lecture hall
- Library

Recommended reading material:

- Gopalan. C. Ramasastri, B.V. et al. Nutritive value of Indian foods. National Institution of Nutrition ICMR Publication, 2004.
- KumudKhanna et.al. Text book of nutrition and dietetics. Elite Publishing House Pvt. Ltd, 2006.
- Mahan, L.K. and Escott- Stumpy, S. Krause's. Food, Nutrition and Diet Therapy. 12th edition. W.B.Saunders, Co. 2008.
- Srilakshmi B. Nutrition science, New Age International Publishers, 2008.
- Sushma Sharma and Arvind Wadhwa. Nutrition in the community. A Textbook. Elite Publishing Pvt.Ltd, 2006.

**Basic therapeutics (pharmacology) (NUR-PHAR-213) 3CHs,
longitudinal course**

Course title:	Basic therapeutics (pharmacology)
Symbol and number:	NUR-PHAR-213
Duration and credits:	Longitudinal, 3CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Pharmacist
Intended students:	Semester 3
Prerequisites:	None

يشتمل هذا المقرر علي تعريف الطالب: (1) بالدواء ونشأته (2) استخدامات الادوية (3) ووصف كيفية امتصاص واحراج الدواء (4) تفاعل الادوية مع بعضها البعض ومع الاغذية المختلفة وكيفية التعامل معها ومضاداتها كما يشتمل ايضا علي تعريف الطالب بالاثار الجانبية للادوية والتعامل معها وطرق التخزين للادوية والمحافظة

Outlines

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 of genes with drugs for example glucose-6 phosphate dehydrogenase deficiency and sulphonamides and antimalarials, (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), antiepileptics (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.

Rationale:

Since nurses are responsible for dispensing medication to the patients and administering them, it is logical they should have sound knowledge about medicines, their uses, routes of administration and side effects. This course provides the students with basic knowledge of therapeutics.

General Objectives:

By the end of this course, the student will be able to:

1. Explain the importance of keeping correct document for administering drugs.
2. Correctly and safely administer the main medications used in the treatment of diseases to patient.

Specific objectives:

By the end of this course, the student will be able to:-

1. Administer the main medications used in the treatment of diseases correctly and safely to patient.
2. Define the various terms used in pharmacology.
3. Describe the major classification of drugs,

4. State the uses, doses, route of administration, indication, and contraindication, mode of action, metabolism, toxic effects, side effects, and elimination of drugs from the body.
5. Explain the rules of medication in service area (economic factor, management, storage).
6. Describe the factors which determine doses and course of treatment
7. Explain the important of keeping correct document of administrating drugs.
8. Read, interpret and implement a prescription.
9. Discuss dangers of drug abuse and suitable precautions to prevent this abuse.
10. Describe the legal control of drugs in Sudan.
11. Read, interpret, implement prescription and accurately document drug administrating.
12. Follow the ethical consideration in administrating medication.
13. Show responsibility in administrating, storage, distribution and economic use of drugs.
14. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse in administration of drugs commonly used in infections and chemotherapy e.g. penicillin, cephalosporin, aminoglycosides, macrolide& broad spectrum antibiotics, sulfonamides, quinolones, antimalarial, anthelmintic, antiviral ,anti-fungal agents, anti- tubercular drug, anti-leprosy drugs, anticancer drugs and immune – suppressants.
15. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse in administration of drugs commonly used in gastro-intestinal system problems e.g. antiemetic, emetics,

antacids, cholinergic, anticholinergic, fluid and electrolyte therapy, anti diarrhoeals and histamines.

16. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse in administration of drugs commonly used in respiratory system e.g. meter doses, mucolytic, decongestants, expectorants, antitussives, bronchodilators and antihistamines.
17. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse in administration of drugs commonly used in urinary system e.g. diuretics, antidiuretics, urinary antiseptics, cholinergic, anticholinergic, acidifiers and alkalinizers.
18. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of the nurse in administration of drugs commonly used in cardiovascular system e.g. hematinics, cardio-tonics, anti-anginas, anti-hypertensive, vasodilators, anti-arrhythmic, plasma expanders, coagulants, anticoagulants, antiplatelet, thrombolytic and hypolipidemics
19. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and the role of the nurse in administration of drugs commonly used on the skin and mucous membranes e.g. topical applications for skin, eye, ear, nose and buccal cavity and the antipruritics.
20. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse in administration of drugs commonly used in the nervous system e.g. analgesics non-steroidal anti-inflammatory

(NSAID) drugs antipyretics, hypnotics , sedatives, opioids tranquilizers and general& local anesthetics.

21. Discuss the composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse in administering drugs- cholinergic and anti-cholinergic, muscle relaxants, major tranquilizers, anti – psychotics, antidepressant, anticonvulsants,adrenergic, noradrenergic, mood stabilizes and acetylcholine.

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- final examination 80%

Required resources:

- Lecture hall
- Library

Recommended reading material:

- Chandlish J K, Lecture notes on biochemistry. Ist edition. Blackwell Scientific Publications, 1984.
- Eastham Duncan Robert, Biochemical values in clinical medicine. 8th edition. John Cought and Sons Ltd, 1977.
- Klein S Israel and Ordan James, Human biochemistry. 5th edition. Mosby Co., 1958.

- Varley Harold, Practical clinical biochemistry. 4th edition. CBS Publishers and Distributers, New Delhi, 1988.

Principles of disease (NUR-DIS-214) 3CHs, 3weeks course

Course title:	Principles of disease (Pathology)
Symbol and number:	NUR-DIS-214
Duration and credits:	3weeks, 3CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Pathologist
Intended students:	Semester 3
Prerequisites:	None

Rationale:

Pathology is considered the basis of disease. This course on principles of disease is, therefore, a vital one since its main objective is to provide students with sufficient knowledge of basic concepts of pathology and microbiology with some inputs from molecular biology and pharmacology. The need for this course to precede the integrated blocks on human body systems; is therefore quite obvious. Basic concepts of processes like infections, inflammations and neoplasia which cause most of the morbidity and mortality in the world are introduced in the course to prepare the ground for the more in depth study of the various organ systems of the body.

General Objectives:

By the end of the block, a student should be able to:

- Understand and explain the basic concepts of general pathology, microbiology, general pharmacology, and community health issues related in particular to infectious diseases and cancer.

Specific Objectives:

By the end of the course, the student should be able to:

1. Correlate pathologic processes with signs and symptoms of disease, explaining the mechanism of disease (pathogenesis) and, independently, think of the methods of prevention of disease.
2. Describe the basic histology of epithelia and connective tissue to explain the histo- pathology of disease e.g. the histology of surface epithelia and changes like metaplasia, dysplasia etc. affecting them.
3. Classify the cells according to replication and cell cycle.
4. Illustrate the morphology of white blood cells, mention their development and types and explain their functions in relation to the cellular mechanisms involved in inflammation.
5. Identify the different types of tissues, and classify in relation to the histogenetic classification of tumors.

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture hall
- Library

Recommended reading material:

- College notes.

Epidemiology (NUR-EPID-214) 2CHs, 2weeks course

Course title:	Epidemiology
Symbol and number:	NUR-EPID-215
Duration and credits:	2weeks, 2CHs
Staff coordinator:	X
Student coordinator:	X
Multidispinary group	Course coordinator Epidemiologist
Intended students:	Semester 3
Prerequisites:	None

Rationale:

This course introduces the nursing student to concepts of epidemiology and related terminology. It helps the student understand about implementation of preventive and control measures for common communicable diseases and their impact on the individual, family and community. It also outlines; the potential emerging/threatening diseases; and their first line of defense and management.

General objectives:

By the end of the course the student will be able to:-

1. Define concepts and principles related to preventive medicine, public health, community health and social medicine.
2. Define the terms used in preventive medicine.

Specific Objectives:

By the end of the course the student will be able to:-

1. Define epidemiology, concepts, aims, scope, uses and terminology uses in epidemiology.

2. Discuss epidemiology of infectious disease-concept, dynamics of disease transmission and disease prevention & control.
3. List morbidity and mortality measurements.
4. Describe methods of epidemiology-descriptive, analytical and experimental.
5. Investigate an epidemic and plan screening for a disease.
6. Discuss disinfection (definition, types, recommended procedure)
7. Discuss hospital acquired infections.
8. Discuss immigration, emigration, quarantine and isolation.
9. Discuss the impact of the prevalent communicable and non-communicable conditions in community and national health .e.g .amoebas , cholera ,typhoid fever, food poisoning diarrheal diseases ,malaria , brucellosis , hook worm infection, ascariasis ,arbies, yellow fever, tetanus, leprosy, leishmaniasis and non-communicable conditions
10. Discuss the epidemiology of malnutrition: under nutrition, over nutrition and nutritional deficiencies
11. Discuss the epidemiology of blindness, accidents, mental illness, obesity, hypertension, coronary heart disease, stroke, anemia, rheumatic heart disease, iodine deficiency, and diabetes mellitus.
12. Define demography (definition, concept and scope).
13. Recognize the preventive and therapeutic approaches taken towards the major endemic parasites in the country.
14. List the common causes of epidemics.-
15. Define morbidity and mortality rate.

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture hall
- Library

Recommended reading material:

- Gulani and Krishna Kumari, Community health nursing: Principles and Practices. 1st edition. Kumar Publishing House, Delhi. 2006.
- J.E. Park, Textbook of preventive and social medicine. 20th edition. Banarsidas Bhanot Publishers, Jabalpur .2009.
- Mahajan, B.K. and Gupta, M.C., Textbook of preventive and social Medicine, 2nd edition. Jaypee Brothers Medical Publishers (Pvt.) Ltd. New Delhi. 1995.
- Patney, Sunita. Textbook of community health nursing, 1st edition. Modern Publishers, Delhi. 2005.

Adult nursing medical -1 (NUR-MED-216) 5CHs, 6 weeks

Course title:	Adult nursing medical -1
Symbol and number:	NUR-MED-216
Duration and credits:	6 weeks, 5CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Medical nursing instructors
Intended students:	X
Prerequisites:	Human body Structure& Function I &2 (NUR-NAT-117& NUR-NAT-124) Basic therapeutics (NUR-PHAR- 213) Principle of disease (NUR-DIS-214) Fundamental of nursing 1&2(NUR-FUND-118) & (NUR-FUND-125) Microbiology and parasitology (NUR-MICRO-127)

This is a 6 weeks module which defines the medical disease, pathophysiology signs and symptoms, laboratory tests and imaging studies that used to diagnose disease, medical management and nursing management based in nursing problems solving, and the role of nursing in monitoring the patient and prevent developing complications.

Medical nursing provides the student with an opportunity to provide care to the adult client 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

Adult physical assessment skills continuo to apply to patient in an acute care setting

Rationale:

This course provides the student with knowledge to compare and contrast normal physiology of body systems to pathologic variations in the patient

General Objectives:

By the end of the course, the student will be able to:-

1. Apply the nursing process in caring for patients with common medical health problems along the health and illness continuum in a variety of health care settings.
2. Use the principles of social and health sciences including (knowledge, skill and attitude) in providing nursing care for the patient and his family.
3. Use the self-learning method to upgrade his/ herself and keep update to date with what is happening in health services, especially nursing.

Specific Objectives:

By the end of the course, the student will be able to:-

1. Describe the primary, secondary and the tertiary care for the patient with general medical conditions.
2. Apply holistic nursing care including physical, mental and social care using the nursing process.
3. State and perform the steps of assessment including taking history, physical examination, observation, communication, using patient file, and list the problems and needs in according to priorities (nursing diagnosis).
4. Describe nursing care plan, implement it and evaluate the action.
5. Describe the rehabilitation for patient in tertiary level with medical conditions.
6. Demonstrate the ability to provide nursing care for patients with general medical conditions and plan and implement at different levels of care.

7. Demonstrate the ability to assess the patients with medical problems, plan, implement and evaluate the outcome.
8. Discuss the etiology, patho-physiology, clinical manifestations, diagnosis, and treatment including dietetics & nursing management for disorders of the gastro intestinal system: 1) Oral cavity-lips, gums, tongue, salivary glands and teeth.2) Esophagus-inflammation. 3) Stomach and duodenum - hiatus hernia, gastritis, peptic ulcer and bleeding. 4) Small intestinal disorders-inflammation, infection, enteritis and malabsorption.5) Large intestinal disorders-colitis, ulcerative colitis, inflammation and infection. 6) Acute abdomen- peritonitis and acute pancreatitis. 7) Portal hypertension, hepatitis, liver cirrhosis and hepatic failure. 8) Gall bladder- cholecystitis and cholelithiasis. 9) Hernias.
9. List drugs used in treatment of disorders of digestive system.
10. Discuss the causes, patho- physiology, investigations, clinical features and management of problems of endocrine system - metabolic/endocrine problems: hypo and hyper thyroidism, diabetes mellitus, pheochromocytoma, Addison's disease and Cushing's syndrome.
11. Discuss the causes, patho- physiology, investigations, clinical features and management of problems of blood and blood forming organs- anemia, polycythemia, bleeding disorders, leukemias and lymphomas,
12. Discuss the causes, patho- physiology, investigations, clinical features and management of problems of infectious conditions and immune system compromising conditions: Immunological problems: HIV/AIDS, SLE, systemic sclerosis, Dengue fever, typhoid, tetanus, cholera, dysentery, influenza, malaria, and nosocomial infections.

13. Discuss the causes, patho- physiology, investigations, clinical features and management of problems of the skin and venereal - dermatitis, herpes, psoriasis, fungal infection, syphilis and skin cancer.
14. Discuss the causes, patho- physiology, investigations, clinical features and management of problems of the sensory organs: glaucoma, cataract, conjunctivitis, otitis media, tonsillitis, pharyngitis, laryngitis and mastoiditis.
15. Discuss the causes, pathophysiology, investigations, clinical features and management of problems of musculo- skeletal system: Orthopedic problems- osteomyelitis, osteoarthritis, rheumatoid arthritis, and Potts' spine.
16. Demonstrate the ability to provide care for patients in the emergency department and to work with the health team effectively.
17. Demonstrate the ability to perform nursing procedures effectively.
18. Demonstrate the ability to prepare patients for investigations and diagnostic procedures.
19. Discuss ethical & professional regulations & values in applying nursing care.

Educational strategies and methods:

- Lectures
- Assignments
- Practical training
- Hospital ward-based teaching

Evaluation and assessment methods:

- Continuous evaluation - log sheets 20%
- Written examination 30%

- Practical examination 50%

Required resources:

- Lecture hall
- Hospital wards
- Library
- transport

Recommended reading material:

- Brunner & Suddarth's Textbook of Medical Surgical Nursing. 12th Edition. New Delhi. Lippincott. Publication, 2010.
- Davis Comprehensive Handbook of Laboratory and Diagnostic Tests 10th edition.
- Susan C. DeWitt, Medical Surgical Nursing: Concepts and Practice .Virtual Clinical Excursions
- Mosby's Dictionary of Medicine, Nursing and Health Professions, 8th edition. 2009. Pennsylvania: F.A. Davis companies). St. Louis, Missouri: Mosby Elsevier
- Student Learning Guide: Medical Surgical Nursing. Saunders Elsevier.2009
- Tabers' Cyclopedia Medical Dictionary, 21st edition. 1915 Arch Street, Philadelphia,

Adult nursing surgical 1 (NUR-SURG-217) 5CHs, 5 weeks course

Course title:	Adult nursing surgical-1
Symbol and number:	NUR-SURG-217
Duration and credits:	5 weeks, 5CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Surgical nursing instructors
Intended students:	Semester 3
Prerequisites:	Human body Structure& Function I&2 (NUR-NAT-117& NUR-NAT-124) Basic therapeutics (NUR-PHAR- 213) Principles of disease (NUR-DIS-214) Fundamentals of nursing 1&2 (NUR-FUND-118&NUR-FUN125) Microbiology and parasitology (NUR-MICRO-127)

Outlines

This is 5 weeks-block, which defines the surgical conditions, pathophysiology signs and symptoms, laboratory tests and imaging studies that used to diagnose disease, surgical management and nursing management based in nursing problems solving, and the role of nursing in monitoring the patient and prevent developing complications.

surgical nursing provides the student with an opportunity to provide care to the adult client with surgery 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 patient going on surgery

Adult physical assessment skills continuo to do apply to patient in an 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.

Rationale:

This course introduces the students to the concept of disease and disease process. Students will be able to gain knowledge and develop understanding of various surgical disorders and diseases. This will prepare them to give comprehensive nursing care to patients with these diseases.

General Objectives:

By the end of the course, the student will be able to:-

1. Apply the nursing process in caring for the patients with common surgical health problems along the health and illness continuum in a variety of heath care settings.
2. Use the principles of social and health sciences including knowledge, skills and attitude in providing nursing care for the patient and his family.
3. Use the self-learning method to upgrade his/ herself keep up todate with the modern developments in health services mainly nursing.

Specific Objectives:

By the end of the course the student will be able to:-

1. Discuss the principles of surgical nursing.
2. Discuss the concept of primary, secondary and tertiary care for the patient with general surgical conditions.
3. Provide holistic nursing care including physical, mental and social care using the nursing process.
4. Discuss the rehabilitation for patients with surgical conditions at tertiary level.
5. Demonstrate the ability to assess patients with surgical conditions, and plan, implement and evaluate the outcome.
6. Demonstrate the ability to provide care for patients in emergency department and to work with the health team effectively.
7. Demonstrate the ability to perform nursing procedures effectively.
8. Demonstrate the ability to prepare patients for investigation and diagnostic procedures.
9. Discuss ethical professional regulations & values in applying nursing care
10. Review the concepts of comprehensive nursing care in surgical conditions based on nursing process (wound healing, care of surgical patient including pre, intra and post-operative).
11. Describe the role and responsibilities of a nurse in surgical settings-theater nurse, members of the operation theatre team, duties and responsibilities of the nurse in operation theater , operating room attire, instruments, sutures and suture materials, equipment , theater tables and sets for common surgical procedures, positions and draping for common surgical procedures, scrubbing procedures, gowning and gloving, preparation for operation and monitoring the patient during surgical procedures.

12. Define surgical asepsis.
13. Define inflammation and Infection.
14. Discuss the principles of surgical nursing.
15. Identify body fluids, fluid and electrolyte imbalance, types of blood transfusion- safety checks, procedure and requirements, management of adverse transfusion reaction and keeping records for blood transfusion.
16. Discuss gastro- intestinal tract problems: 1)oral cancer,2) Esophageal disorders -hiatus hernia, diverticulosis, , stricture, obstruction, bleeding and esophageal neoplasm,3) Stomach and duodenum- duodenal ulcer, bleeding and tumors and gastrostomy,4)Surgery for gall bladder; inflammation, obstruction, stones and tumors .5)Small intestinal disorders -intestinal obstruction, tumors and perforation. 6)Pancreas,- cyst, abscess and tumours.7) Liver -cyst, abscess, tumours.8) Appendix- inflammation, mass, abscess, rupture and surgical management.9) Acute abdomen and peritonitis10)Large intestinal disorders, obstruction and tumours.11) Rectum &anus-hemorrhoids, fissures, fistulas, colorectal cancer ,surgical and nursing management, Ileostomy, colostomy and 12) hernias
17. Discuss the anatomy and physiology of the skin and connective tissues .
18. Perform nursing assessment – history and physical assessment including assessment of burns and loss of fluids and electrolytes
19. Discuss etiology, classification, patho-physiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of burns ,re-constructive and cosmetic surgery;
20. List types of re-constructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes and the role of nursing on the outcome of these procedures.

Educational strategies and methods:

- Lectures
- Assignments
- Surgical wards-based teaching
- Practical training
- Log sheet

Surgical ward-based teaching:

- Assess the patient, taking history, perform general and specific physical examination and identify alterations.
- Practice surgical asepsis – standard safety measures.
- Administer medications. (Oral, I.V, I.M, subcutaneous. I.V canulation, maintenance and monitoring.
- Give oxygen therapy by different methods, nebulization, chest physio -therapy, and naso- gastric feeding.
- Perform/ assist in therapeutic procedures e.g. blood and component therapy,Suctioning.
- Collect specimens for common investigations.
- Practice waste elimination (catheterization, bowel washes, enema, and urinary drainage).
- Assess burned patients and identify the percentage and degree of burns.
- Assess, calculate and replace fluid and electrolyte losses
- Record intake/output for patients.
- Perform care for burns and wounds (bathing, dressing).
- Perform active and passive exercises.
- Practice medical and surgical asepsis.
- Counsel and teach patients and families.
- Participate in rehabilitation program.

Evaluation and assessment methods:

Continuous evaluation 20%
Written examination 30%
Practical examination 50%

Required resources:

Lecture hall
Library
Surgical wards
Transport

Recommended reading material:

- Brunner & Suddarth's Textbook of Medical Surgical Nursing 12th edition,.Lippincott Publication. New Delhi. 2010.
- Davis' Comprehensive Handbook of Laboratory and Diagnostic Tests .10th edition.
- Susan C. DeWitt Medical Surgical Nursing Concepts and Practice. Virtual Clinical Excursions
- Mosby's Dictionary of Medicine. F.A. Davis Company, Pennsylvania
- Nursing and Health Professions, 8th edition. Mosby Elsevier, St. Louis, Missouri, 2009.
- Student Learning Guide: Medical Surgical Nursing Saunders Elsevier 2009
- Tabers' Cyclopedic Medical Dictionary, 21st edition. 1915 Arch Street, Philadelphia,

Education Technology (NUR-EDU-221) 2CHs, 2weeks course

Course title:	Education Technology
Course number and Symbol:	NUR-EDU-221
Duration and credits:	2weeks (2 CHs)
Staff coordinators:	X
Student coordinator:	X
Intended students:	Semester 4
Prerequisites:	Computer science

Rationale:

In this modern era, there is an increasing demand for qualified, trained nurses who can teach the art of nursing to the next generation, provide continuous professional training for the current generation of

nurses and participate in planning and implementation of health programs. This course prepares the student nurses for such role by introducing them to the basics of health professional education and the use of technology in preparing and presentation of their work.

General Objectives:

By the end of this course the student will be able to:

1. Understand the concept of teaching elements and components of the curriculum
2. Define basic principles of teaching & learning, methods of teaching, method of evaluation and teaching technology with practical application.

Specific objectives

By the end of this course the student will be able to:

1. Discuss the concept of education (meaning, philosophy, aims, functions & principles).
2. Discuss nature and characteristics of learning.
3. Discuss principles of teaching.
4. Formulate objectives: general and specific.
5. Discuss methods of teaching (Lecture, demonstration, group discussion, seminar, symposium, panel discussion, role play, project, field trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching, problem based learning, self ,instructional module and simulation).

6. Discuss clinical teaching methods: case method, nursing round and reports, bed side clinic, conference (individual and group), process recording.
7. Describe purposes and principles educational Media.
8. Describe types of A.V aids (Graphic aids, three dimensional aids, projectaids, audio aids and computer.
9. Understand purposes & scope of evaluation & assessment.
10. Explain criteria for selection of assessment techniques and methods.
11. Assess knowledge by constructing essay type questions; short answer questions (SAQ) and multiple choice questions (MCQ).
12. Assess skills by constructing observation checklist, practical exam, and Objective Structures Clinical Examination (OSCE).
13. Define the components of curriculum.
14. Use power point, word, excels and other computer programs for preparation and presentation of their work.

Education strategies and Methods

- Lectures
- Seminars

Evaluation and assessment methods

- Continuous evaluation 20%
- Final examination 80%

Required resources

- Lecture room
- library

Refrences & recommended reading material:

- Gillbret, J.J. Educational Handbook for Health Personnel. W.H.O. Geneva, 1997.
- Heidgerken, E. Loretta. Teaching & Learning in Schools of Nursing. 12th edition. Konark Publishers, 2003.
- Neerja K. P. Textbook of Nursing Education. Jaypee Brothers. New Delhi, 2003.
- Susan B. Nurse as an Educator-Principles of Teaching & Learning For nursing Practice. 2nd edition. Jones & Bartlett, Publishers, 2003, Canada.

Sociology and anthropology (NUR-SOCIO-222) 2CHs, longitudinal

Course title:	Sociology and anthropology
Symbol and number:	NUR-SOCIO-222
Duration and credits:	Longitudinal, 2CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Sociologist
Intended students:	Semester 4
Prerequisites:	None

Rationale:

Sociology is introduced as a study of human behavior through the understanding of social interaction influenced by social structure of the community.

General objectives

By the end of this course, the student is expected to:

- Understand the definition of sociology and its significance for the practice of nursing.

Specific objectives:

By the end of the course the student will be able to:

1. Discuss the various social systems in Sudan with emphasis on their effect upon the health of the community.
2. Recognize the impact of cultural norms, traditions and beliefs on individuals and community in the country while planning and implementing nursing care for the maintenance of health and prevention of illness.

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- final examination 80%

Required resources:

- Lecture hall
- Library

Recommended reading material:

- College notes

**Communication skills and counseling (NUR-COUN-223) 3CHs,
longitudinal course**

Course title:	Communication skills and counseling
Symbol and number:	NUR-COUN-223
Duration and credits:	Longitudinal, 3CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Community nurse
Intended students:	Semester 4
Prerequisites:	None

Rationale:

This course is designed to help students acquire the concept of health education and understand the principles underlying health education in

order to develop an ability to communicate effectively with patients, community, health team members and others.

General objectives:

By the end of this course the student will be able to:

1. Describe the principles of interpersonal relationships and communication techniques used for interaction with a variety of individuals and groups in various health care setting.
2. Discuss various approaches to therapeutic communication with individuals and groups in various health care setting.

Specific objectives:

By the end of this course the student will be able to:

1. Define counseling.
2. Describe the principles of counseling.
3. Explain the qualities of a counselor.
4. Describe a situation where counseling can be used.
5. Discuss the different techniques of counseling.
6. Discuss the available agencies for counseling in the community.
7. Demonstrate the ability to counsel patients and their families.

Educational strategies and methods:

- Lectures
- Assignments
- Small group discussions
- Role play

Evaluation and assessment methods:

- Final written exam

Required resources:

- Lecture hall
- Library

Recommended reading material:

- College notes.

Adult nursing medical -2 (NUR-MED-224) 7CHs, 7 weeks courses

Course title:	Adult nursing medical- 2
Symbol and number:	NUR-MED-224
Duration and credits:	7 weeks, 7CHs
Staff coordinator:	Eman Osman Ali
Student coordinator:	Rwaa Rwdoan
Multidisciplinary group	Course coordinator Medical nursing instructors
Intended students:	Semester 4
Prerequisites:	Human body Structure& Function I &2 (NUR-NAT-117& NUR-NAT-124) Basic therapeutics (NUR-PHAR- 213) Principle of disease (NUR-DIS-214) Fundamental of nursing 1&2 (NUR-FUND-118& NUR- FUND-125) Microbiology and parasitology (NUR-MICRO-127)

This is 7 weeks modules which define the medical disease, path physiology signs and symptoms, laboratory tests and imaging studies that used to diagnose disease, medical management and nursing management based in nursing problems solving, and the role of nursing in monitoring the patient and prevent developing complications.

Medical nursing provides the student with an opportunity to provide care to the adult client 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

Adult physical assessment skills continuo to apply to patient in an acute care setting

Rationale:

This course will help students understand the concept of disease and disease process.

Students will be able to gain knowledge and develop understanding of various, medical disorders and diseases. They will be able to give comprehensive nursing care to patients with these diseases.

General Objectives:

By the end of the course, the student will be able to:

1. Apply the nursing process in caring for patients with common medical health problems along the health and illness continuum in a variety of health care settings.
2. Use the principles of social and health sciences including knowledge, skills and attitude in providing nursing care to the client and his family.
3. Use self-learning to upgrade his/ her and keep up to date with the new developments in health services, especially nursing.

Specific Objectives:

By the end of the course, the student will be able to:

1. Provide the care needed for patients with medical conditions.
2. State the steps of nursing process; assessment & nursing diagnosis, planning, implementation and evaluation for patients with medical conditions using a holistic approach.

3. Demonstrate the ability to apply nursing process (assessment, planning, implement, evaluating) for patients with specific medical conditions.
4. Demonstrate the ability to care effectively for patient with cancer, and neurological problems.
5. Apply and follow the ethical consideration in caring for the patient and his/her family.
6. Outline the structure and functions of the renal system
7. Discuss the patho- physiology, investigations, clinical features and management of problems of the renal system (UTI, nephritis, nephritic syndrome, glomerulonephritis, pyelonephritis, cystitis, acute renal failure, chronic renal failure, end stage renal disease and dialysis).
8. List drugs used in treatment of renal disorders.
9. Review structure and functions of the cardiovascular system
10. Discuss the causes, patho- physiology, investigations, clinical features & nursing management of problems of cardio- vascular system (hypertension, hypotension, atherosclerosis, aneurysms and peripheral vascular disorders, coronary heart disease, ischemic heart disease, coronary atherosclerosis, angina pectoris and myocardial infarction, cardiac arrhythmias, heart failure, congestive heart failure, rheumatic heart disease, heart block, congenital heart disease, endocarditis, pericarditis, myocarditis, valvular disorders of the heart , rheumatic heart diseases, cardiogenic shock, cardiac tamponade and cardiac emergencies .
11. Perform cardio pulmonary resuscitation (CPR).
12. Outline the anatomy and physiology of respiratory system.
13. Perform nursing assessment, history and physical assessment.
14. Discuss etiology, patho- physiology, clinical manifestations, diagnosis, medical treatment, & nursing management of respiratory problems(bronchitis, asthma, emphysema, empyema, pneumonia, atelectasis ,acute respiratory failure, chronic obstructive pulmonary disease

(COPD), bronchiectasis, pulmonary tuberculosis, pulmonary edema, pleura effusion, respiratory arrest, respiratory insufficiency, and pulmonary embolism).

15. Describe special therapies, alternative therapies
16. Outline the anatomy and physiology of the neurological system
17. Demonstrate nursing assessment history and physical assessment- neurological and Glasgow coma scale.
18. Describe the causes, patho- physiology, investigations, clinical features and management of problems of the brain and neurological system (congenital malformations, headache, cerebro-vascular accidents (CVA), paraplegia, hemiplegic, quadriplegia, , meningitis, encephalitis,
19. Describe the causes, patho- physiology, investigations, clinical features and management of disorders of movement (chorea, seizure, epilepsies, □□ myasthenia gravis, Gillian Barre syndrome, degenerative - delirium, dementia, Alzheimer's disease, Parkinson's disease, multiple sclerosis, Bell's palsy and trigeminal neuralgia
20. Manage the unconscious patient and patients with stroke.
21. Outline the role of the nurse in communicating with patient having neurological deficit
22. Discuss the principles of rehabilitation for patients with neurological deficit
23. Outline the histological and functional differences between the normal cell and cancer cell.
24. Demonstrate nursing assessment history and physical assessment for cancer patients.
25. Discuss prevention, screening, early detection, and the warning signs of cancer.

26. Discuss the epidemiology, etiology, classification, patho- physiology, clinical manifestations, diagnosis, and nursing management of oncological conditions.
27. Describe common malignancies of various body systems- oral, larynx, esophagus, lung, stomach, colon, liver, brain, renal, bladder, prostate, leukemia, lymphomas, sarcoma, etc..
28. Identify oncological emergencies.
29. Describe modalities of treatment(immunotherapy- stem cell and bone marrow transplants, gene therapy , chemotherapy ,radiotherapy and surgical intervention)
30. Demonstrate nursing procedures for managing cancer patients, chemotherapy patients and radiotherapy patients.

Educational strategies and methods:

- Lectures
- Assignments
- Medical wards- based teaching.
- Log sheet

Evaluation Methods

- Continuous evaluation 20%
- Written examination 30%
- Practical examination 50%

Required resources:

- Lecture hall
- Library
- Hospital medical wards.
- Transport

References & recommended reading material:

- Brunner & Suddarth's Textbook of Medical and Surgical Nursing .12th edition, New Delhi Lippincott Publication. 2010.
- Davis' Comprehensive Handbook of Laboratory and Diagnostic Tests. 10th edition.
- Susan C. DeWitt. Medical & Surgical Nursing Concepts and Practice .Virtual Clinical Excursions.
- Mosby's Dictionary of Medicine. Nursing and Health Professions. 8th edition. (2009). Mosby Elsevier, Pennsylvania. F.A. Davis Company. St. Louis, Missouri.
- Student Learning Guide: Medical Surgical Nursing Saunders Elsevier. 2009
- Taber's Cyclopedic Medical Dictionary, 21st edition. 1915. Arch Street, Philadelphia.

Adult nursing surgical -2 (NUR-SURG-217) 7CHs, 8 weeks courses

Course title:	Adult nursing surgical- 2
Symbol and number:	NUR-SURG-225
Duration and credits:	8 weeks, 7CHs
Staff coordinator:	X
Student coordinator:	X
Multidisciplinary group	Course coordinator Surgical nursing instructors
Intended students:	Semester 4
Prerequisites	Human body structure& function I &2 (NUR-NAT-117& NUR-NAT-124) Basic therapeutics (NUR-PHAR- 213) Principle of disease (NUR-DIS-214) Fundamental of nursing-1&2

(NUR-FUND-118& NUR- FUND-125)

Microbiology and parasitology

(NUR-MICRO-127)

Outlines

This is 8 weeks-block, which defines the surgical conditions, pathophysiology signs and symptoms, laboratory tests and imaging studies that used to diagnose disease, surgical management and nursing management based in nursing problems solving, and the role of nursing in monitoring the patient and prevent developing complications.

surgical nursing provides the student with an opportunity to provide care to the adult client with surgery 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 patient going on surgery

Adult physical assessment skills continuo to do apply to patient in an 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.

Rationale:

This course introduces the students to the concept of disease and disease process. Students will be able to gain knowledge and understanding of various surgical disorders and diseases. Accordingly, they will be able to give comprehensive nursing care to patients with these diseases.

General Objectives:

By the end of this course, the student will be able to:

1. Apply the nursing process in caring for patients with common surgical health problems along the health and illness continuum in a variety of health care settings.
2. Use the principles of social and health sciences including knowledge, skills and attitude in providing nursing care to the patient and his/her family.
3. Use self-learning to upgrade his/ herself and keep up to date with the modern development in health services, mainly nursing.

Specific Objectives:

By the end of the course, the student will be able to:

1. Describe the care needed for patients with surgical conditions.
2. State the steps of nursing process; assessment & nursing diagnosis, planning, implementation and evaluation for patients with specific surgical conditions using a holistic approach.
3. Demonstrate the ability to apply nursing process (assessment, planning, implementing and evaluating) for patients with specific surgical conditions.
4. Outline the anatomy and physiology of musculoskeletal system.
5. Discuss the etiology, patho-physiology, clinical manifestations, diagnosis, treatment including surgical, dietetics & nursing management for disorders of muscles, ligaments, joints and bones- inflammation, infection, dislocation, fracture, tumors trauma, osteomalacia ,osteoporosis,arthritis and congenital deformities.
6. Assess the spinal column for defects, deformities, tumors, prolapsed intervertebral disc, Pott's spine and Paget's disease.
7. Assess amputated limbs and prosthesis.
8. List drugs used in treatment of disorders of musculoskeletal system

9. Explain primary, secondary and tertiary care for patient with general surgical conditions of the respiratory tract including lung abscess, pleural effusion, cysts and chest injuries. And for patients with respiratory tract complications e.g. respiratory arrest and insufficiency, pulmonary embolism, emphysema, tumors and chest tubes.
10. Discuss cardiothoracic surgery-congenital heart diseases, CABG and valvular surgery.
11. Demonstrate the ability to care for patients needing critical surgical nursing care (air- way intubations, Glasgow Coma Scale, monitor, CPR, and ICU).
12. Demonstrate the ability to care effectively for patients with, neurosurgical problem (Spinal cord compression, herniation of intervertebral disc, and tumors of the brain & spinal cord).
13. □Outline the anatomy and physiology of the eyes.
14. Discuss the etiology, patho- physiology, clinical manifestations, diagnosis, treatment modalities and nursing management of eye disorders-eye lids infections, tumors , deformities, conjunctivitis , conjunctival bleeding ,corneal infection , cataracts, glaucoma, disorders of the uveal tract, ocular tumors, disorders of posterior chamber , retinal and vitreous problems, retinal detachment and ocular emergencies ,
15. Discuss causes of blindness and the national blindness control program
16. List drugs used in treatment of disorders of the eye.
17. Outline the causes, patho-physiology and nursing management for ear, nose and throat disorders. e.g. tonsilectomies, foreign bodies, stridor and care of tracheostomies.
18. Apply and follow the ethical consideration in caring for patients and their families

Educational strategies and methods:

- Lectures
- Assignments
- Practical training
- Surgical wards-based teaching:
- Log sheet including the following skills:
 - Assess the patient, taking history, perform general and specific physical examination and identify alterations and deviations.
 - Practice surgical asepsis – Standard safety measures.
 - Administer and monitor medications. (Oral, i.v., i.m., and subcutaneous) .
 - Administer oxygen therapy by different methods and give nebulization, chest physio –therapy and naso- gastric feeding.
 - Perform/ assist in therapeutic procedures e.g. blood and component therapy and suctioning.
 - Collect specimens for common investigations.
 - Maintain elimination of waste (catheterization, bowel wash, enema and urinary drainage).
 - Measure and document the daily intake and output of patients.
 - Perform examination of eye.
 - Assist with diagnostic procedures.
 - Assist with therapeutic procedures.
 - Perform/ assist with eye irrigations.
 - Apply eye bandage.
 - Apply eye drops/ ointments.
 - Assist with foreign body removal.
 - Teach patients and families.
 - Perform examination of ear, nose and throat.
 - Assist with diagnostic procedures.

- Assist with therapeutic procedures.
- Instillation of drops.
- Perform/assist with irrigations.
- Apply ear bandage.
- Perform tracheostomy care.
- Teach patients and families.

Evaluation methods:

- Continuous evaluation 20%
- Written examination 30%
- Practical examination 50%

Required resources:

- Lecture room
- Library.
- Hospital wards.

References and recommended reading material:

- Brunner & Suddarth's Textbook of Medical Surgical Nursing 12th edition. New Delhi Lippincott Publication. 2010.
- Davis' Comprehensive Handbook of Laboratory and Diagnostic Tests. 10th edition .
- Medical Surgical Nursing Concepts and Practice by: Susan C. DeWitt Virtual Clinical Excursions: Medical Surgical Nursing
- Mosby's Dictionary of Medicine, Nursing, and Health Professions. 8th edition. 2009. Pennsylvania F.A. Davis Company. St. Louis, Missouri. Mosby Elsevier

- Student Learning Guide: Medical Surgical Nursing Saunders Elsevier.2009
- Taber's Cyclopedic Medical Dictionary. 21st edition. 1915 Arch Street, Philadelphia,

Health Economics (NUR-HEC-311) 2CHs, longitudinal course

Course title:	Health Economics
Symbol and number:	NUR-HEC-311
Duration and credits:	Longitudinal -2CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Health economist
Intended students:	Semester 5
Prerequisites:	None

يشرح الكورس مقدمات الإقتصاد مع التركيز على الإقتصاد الصحي كأحد جوانب الإقتصاد العام, يشرح ايضاً مدى تأثير صحة الفرد على الإنتاجية الكلية و بالنسبة للجانب التمريضي يناقش الكورس الإحتياجات والتكاليف المادية اللازمة لوحدة التمريض في المراكز الصحية بمختلف درجاتها, كما ويعلم الكورس الطلاب كيفية وضع خطة لعمل الوحدة التمريضية بتكاليف مقبولة

Outlines:

Definition of health economics – Discussion of the concept of health economics and its implication in health planning- Discussion of the effect of the individual's health and its impact on individual income- Discussion of cost benefits and cost effectiveness of health.- Identification of the needs and cost of a nursing unit- Making a plan for a nursing unit including its cost effectiveness- Demonstrate the ability to manage nursing services with minimum cost

Rationale:

The practice of nursing requires basic knowledge of health economics and broad information about the effect of disease on the individual and family income and health effectiveness of hospital nursing as a whole.

General Objectives:

By the end of this course the student will be able to:

1. Define terminology of health economics
2. Identify the economic aspect of health
3. Understand the effect of disease on the individual's income.
4. Identify health cost and health effectiveness of hospital nursing.

Specific Objectives:

By the end of this course the student will be able to:

1. Define health economics
2. Discuss the concept of health economics and its implication in health planning.
3. Discuss the effect of the individual's health and its impact on individual income.
4. Discuss cost benefit and cost effectiveness of health.
5. Identify the needs and cost of a nursing unit.
6. Make a plan for a nursing unit including its cost effectiveness.
7. Demonstrate the ability to manage nursing services with minimum cost

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation(assignment) 10%
- Written examination 90%

Required resources:

- Lecture hall

- Library

Recommended reading material

- College notes

Primary Health Care (NUR-PHC -312) 2CHs, 4 weeks course

Course title:	primary health care
Symbol and number:	NUR-PHC -312
Duration and credits:	4 wks. -2CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary	Course coordinator
Group:	Community nurse
Intended students:	Semester 5
Prerequisites:	Community health nursing- 1

يشمل الكورس على دراسة لمفهوم الرعاية الصحية الأولية مع توضيح الهدف العام لها, توضيح العناصر المكونة لمفهوم الرعاية الصحية الأولية, يشرح الكورس ايضا الطريقة المثلى لتقديم الرعاية الصحية في المجتمع مع توضيح دور الممرض في رعاية الصحة العامة في المجتمع, يوضح الكورس بعض الأمثلة لمبادرات ومنظمات محلية وعالمية تعنى بالرعاية الصحية الأولية.

Outlines:

Definitions of the Concept of primary health care, professional practice and cultural safety – list of the components of primary health care - Provision and coordination of care, collaborative and therapeutic practice prevention. - role and impact of nurses and who work in the community - Local, national and global examples of primary health care initiatives. - role of health promotion as a primary health care strategy.

Rationale:

The practice of nursing requires basic knowledge of primary health care and understanding of the role and impact of community nursing on health services.

General objectives:

By the end of this course the student will be able to:

1. Define primary health care, its components and principles
2. Understand the goal of primary health care
3. Define health promotion
4. Define the role of nurses and in health promotion and illness.

Specific objectives:

By the end of course, the student will be able to:

1. Discuss the concept of primary health care, professional practice and cultural safety.
2. List the components of primary health care
3. Discuss provision and coordination of care, collaborative and therapeutic practice prevention.
4. Explain the role and impact of nurses and who work in the community
5. Identify local, national and global examples of primary health care initiatives.
6. Discuss the role of health promotion as a primary health care strategy

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation(assignment) 10%
- Written examination 90%

Required resources:

- Lecture hall
 - Library
 - Field visits
-

Recommended Reading material

- Gulani, Krishna Kumari, Community Health Nursing Principles and Practices. First Edition, Delhi: Kumar Publishing House, 2006.
- J.E. Park, Textbook of Preventive and Social Medicine. Edition 20th, Jabalpur: BanarsidasBhanot Publishers, 2009.
- Rao, Dr (Mrs.) K.S, An Introduction to Community Health Nursing, 3rd Edition, Chennai
- Stanhope, M. and Lancaster, J. Community Health Nursing: Process and Practice for Promoting Health. 3rd Edition Toronto: Mosby Year Book

Genetics (NUR-GEN -313) 2CHs, Longitudinal course

Course title:	Genetics
Symbol and number:	NUR-GEN -313
Duration and credits:	Longitudinal -2CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Biochemist/genetics specialist
Intended students:	Semester 5
Prerequisites:	Biochemistry (NUR-BIOC-119)

يشتمل الكورس على توضيح طبيعة أسس الوراثة مع شرح ما للوراثة من تأثير على النمو والتطور منذ المراحل الأولى وحتى البلوغ، يوضح الكورس أيضا الأمراض الوراثية والأمراض ذات الارتباط الجيني والدور المهم الذي يقدمه الممرض في مجال الاستشارة الطبية لمرضى الأمراض الوراثية.

Outlines:

Discussion of Nature, principles and perspectives of heredity. - Maternal, prenatal and genetic influences on development of defects and disease. -Genetic defects and diseases in neonates and children - Genetic disorders in adolescents and adults - the role of nurses in genetic services and counseling

Rationale:

This course is designed to provide the students with basic knowledge in genetics and its role in causation of disease.

General objectives:

By the end of this course, the student should be able to:

1. Identify the maternal, prenatal and genetic influences on development of defects and diseases.
2. Understand genetic diseases in neonates and children
3. Discuss genetic disorders in adolescents and adults
4. Discuss genetic testing.
5. Discuss genetic counseling.
6. Understand legal and ethical issues.

Specific objectives:

By the end of this course, the student will be able to:-

1. Outline cellular division mitosis and meiosis
2. Describe the characteristics and structure of genes
3. Discuss chromosomes – sex determination
4. Discuss chromosomal aberrations and patterns of inheritance
5. Outline the Mendelian theory of inheritance
6. Discuss multiple allots and blood groups
7. Explain sex linked inheritance
8. Outline the mechanism of inheritance
9. Explain errors in transmission (Mutation)
10. Discuss the nature, principles and perspectives of heredity.
11. Discuss the maternal, prenatal and genetic influences on development of defects and disease.
12. List the screening methods for genetic defects and diseases in neonates and children.
13. Identify genetic disorders in adolescents and adults.
14. Describe the role of nurses in genetic services and counseling.

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture hall
- Library

Recommended Reading materials:

College notes

Obstetrics nursing (NUR-OBS-314) 8CHs, 8 weeks course

Course title:	Obstetrics nursing
Symbol and number:	NUR-OBS-314
Duration and credits:	8 weeks, 8 CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Obstetrics nurses/midwives
Intended students:	Semester 5
Prerequisites:	Genetics (NUR-GEN -313)

Rationale:

This course is designed to introduce the students to the concepts and principles of obstetrical nursing. It provides the students with the basic knowledge and skills required for nursing normal and high risk pregnant women during antenatal, natal and postnatal periods in hospital and community settings.

General objectives:

By the end of this course, the student will be able to:

1. Outline the anatomy and physiology of female and male reproductive systems
2. Outline the management of women during antenatal, intra-natal and postnatal period
3. Define high risk pregnancy
4. Discuss management of abnormal labor and obstetrical emergencies
5. Discuss the assessment and management of neonates

Specific objectives:

By the end of this course, the student should be able to:

1. Outline the anatomy and physiology of female reproductive system and female pelvis- gynaecoid pelvis and developmental variations in pelvis.
2. Discuss the embryological fetal development, maturation and fertilization of ovum, implantation, formation of the placenta, membranes and cord, fetal circulation, functions of the placenta and its abnormalities.
3. Outline the basics of genetics and genetic counseling.
4. Describe pre-conception care and preparing for parenthood.
5. Identify the role of nurses in midwifery and obstetrical care.
6. Discuss the national policy and legislation in relation to maternal health and welfare.
7. Outline the physiology of conception.
8. Outline the physiology of normal pregnancy, symptoms and signs of pregnancy, diagnosis of pregnancy (biological tests, radiological diagnosis and ultrasonic devices), influence of hormones, emotional aspect of pregnancy, minor disorders of pregnancy and their management.
9. Discuss and provide proper antenatal care and management.
10. Assess and manage patients with high risk conditions of pregnancy e.g. vesicular mole, hydramnios, hyper emesis, pre-eclampsia , eclampsia and hemorrhages during pregnancy.
11. Take proper obstetrical history and perform an obstetrical examination.
12. Assess and manage obstetrical emergencies
13. Outline the physiology and stages of normal labour.
14. Recognize the signs and stages of abnormal labour.

15. Assess and manage abnormal labour (breech presentation, transverse or oblique lie, cord presentation and cord prolapsed).
16. Assess and manage abnormal uterine action, post maturity, induction of labour, complications of third stage of labour, injuries to birth canal .
17. Assess and manage obstetrical emergencies-shock, inversion of uterus etc
18. Manage women during intra-natal period
19. Discuss the physiology of normal puerperium.
20. Assess and manage abnormal puerperium.
21. Outline nursing care for gynecological complications following labour and their prevention.
22. Discuss psychiatric disorders of puerperium.
23. Perform postnatal assessment of patients and manage them accordingly.
24. Discuss abnormalities during postnatal period.
25. Assess and manage normal neonates.
26. Assess and manage high risk newborns
27. Discuss pharmaco-therapeutics in obstetrics, effect of drugs on pregnancy, labour and puerperium and nursing responsibilities in administration of drugs in obstetrics e.g. oxytocin, antihypertensives, diuretics, tocolytics, anti convulsions, analgesia and anaesthesia.

Educational strategies and methods:

- Lecture
- Small group discussion
- Obstetrical and labour ward-based teaching
- Supervised clinical practice.

Evaluation and assessment methods:

Continuous evaluation (assignment) 20%

Written examination 30%

Practical clinical exam

50%

Required resources:

- Lecture room
 - Library
 - Basic skills lab
 - Hospital wards-antenatal clinics, antenatal wards, labour room and newborn nursery.
 - Family planning clinics.
 - Transport.
-

References and recommended reading materials:

- Bennett Ruth V., Myles' Textbook for Midwives 13th edition. Churchill Livingstone .London.2001.
 - Basvanthappa B.T., Midwifery and Reproductive Health Nursing. 1st edition. Jaypee Publishers .2006.
 - Dutta D.C., Text book of Obstetrics, 5th edition.. New Central Book Agency .Calcutta. 2007
 - SalhanSudha, Textbook of Obstetrics, 1st edition. Jaypee Publishers. New Delhi.2007.
 - Wong et al, Maternal Child Nursing Care, 1st edition, Mosby Inc., 1998.
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Gynecological nursing (NUR-GYN -315) 4CHs, 4 weeks course

Course title:	Gynecological nursing
Symbol and number:	NUR-GYN -315
Duration and credits:	8 weeks, 8CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Gynecology nurses
Intended students:	Semester 5
Prerequisites:	Obstetrics nursing (NUR-OBS-314)

Rationale:

This course is designed to introduce the students to the concepts, aims, importance and history of gynecological nursing.

General objectives:

By the end of this course, the student will be able to:

1. Discuss disorders of the menstrual cycle and the menopause.
2. Discuss the concepts of contraception
3. Identify the inflammatory and malignant conditions of the female reproductive system

Specific Objectives:

By the end of this course, the student will be able to:

1. Discuss abnormalities of the menstrual cycle.
2. Explain the physiology of the menopause.
3. Discuss methods of contraception; spacing, temporary , permanent and emergency contraception
4. Perform gynecological examination and diagnostic procedures
5. Outline the diagnosis and treatment of abortions.
6. Discuss infertility, diagnosis and treatment.
7. Discuss inflammatory and malignant conditions of the female reproductive organs
8. Discuss uterine displacement and its management.

Educational strategies and methods:

- Lecture/ discussion.
- Hospital- based teaching
- Supervised clinical practice.
- assignments

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 30%
- Practical exam 50%

Required resources:

- Lecture hall
- Library

- Basic skills lab
 - Gynecology hospital wards
-

References and recommended reading materials:

- Bennett Ruth V., Myles' Textbook for Midwives 13th edition. Churchill Livingstone. London. 2001.
- Basvanthappa B.T., Midwifery and Reproductive Health Nursing. 1st edition. Jaypee Publishers. 2006.
- Dutta D.C., Text book of Obstetrics. 5th edition. New Central Book Agency. Calcutta. 2007/
- SalhanSudha, Textbook of Obstetrics. 1st edition. Jaypee Publishers. New Delhi.2007.
- Wong etal, Maternal& Child Nursing Care. 1st edition. Mosby Inc. 1998.

Statistics (NUR-STAT-321) 2CHs, 2weeks course
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Course title:	Statistics
Symbol and number:	NUR-STAT-321
Duration and credits:	Longitudinal -2CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Statician
Intended students:	Semester 6
Prerequisites:	None

Outlines

Definition of biostatistics.- the role of statistic in health care- different types of data.- tools of data collection.- Description of sources of data.- Measurement of central tendency of a given set of data- Relation & coefficient - Presentation of the result of analysis of given data- SPSS- hospital health information system.

Rationale:

The practice of nursing requires basic knowledge of statistics and broad information about the methods of data collection, data-analysis and presentation of data. In addition to that, this course teaches the nursing student to evaluate plans and to make decisions based on scientific knowledge.

General objectives:

By the end of this course, the student will be able to:

1. Understand the basics of biostatistics (types of data collection, data-analysis and presentation of data).

Specific objectives

By the end of this course, the student should be able to:

1. Define biostatistics, uses of statistics and scales of measurement
2. Discuss the role of statistic in health care
3. Identify the different types of data.
4. Discuss frequency distribution and graphical presentation of data.
5. Measure the central tendency of a given set of data(mean, median ,mode, range and standard deviation)
6. Define relation & coefficient
7. Interpret the result of analysis of given data
8. Practice using the statically packages and its application (SPSS)
9. Discuss hospital health information system

Educational strategies and methods:

- Lectures
- Assignments

Evaluation and assessment methods:

- Continuous evaluation(assignment) 10%
- Written examination 90%

Required resources:

- Lecture room
- Library

Recommended reading materials:

Nursing theory (NUR-THEO-322) 2CHs, 2weeks course

Course title:	Nursing theory
Course number and Symbol:	NUR-THEO-322
Duration and credits:	2weeks, 2 CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary	Course coordinator
Group:	Medical& surgical nurse
Intended students:	Semester 6
Prerequisites:	None

Outlines

Definitions of nursing theories -Development of nursing theory -
components of nursing theory -the most commonly used nursing theory

General objectives:

By the end of this course, the student will be able to:

-Understand the concept of nursing theories

Specific objectives:

By the end of this course, the student will be able to:

1. Define nursing theories.
2. Discuss the development of nursing theories.
3. List the components of nursing theory
4. Discuss the most commonly used nursing theory

Education strategies and methods:

- Lectures
- Seminars

Evaluation and assessment methods:

- Continuous evaluation 20%
- Final examination 80%

Required resources:

- Lecture room
- Library

Recommended reading material:

- College notes

Child health care (NUR-CHC-323) 2CHs, 2weeks course
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Course title:	Child health care
Symbol and number:	NUR- CHC -323
Duration and credits:	2 weeks, 2CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Pediatrics nurses
Intended students:	Semester 6
Prerequisites:	Obstetrics nursing (NUR-OBS-314)

Rationale:

This 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.

General objectives:

By the end of this course, the student will be able to:

1. Describe normal growth and development from birth to adolescence.
2. Explain principles and factors affecting growth and development.

3. Recognize nutritional and psychological needs of children at different age groups and explain safe weaning
4. Discuss the concept of preventive immunization and the national immunization program

Specific objectives:

By the end of this course, the student will be able to:

1. Discuss the basics of pediatric growth and development.
2. List the factors affecting growth & development
3. Identify the different stages of growth and development from birth to adolescence
4. Identify the nutritional needs of children & infants and safe weaning
5. Discuss the principles of preventive immunization and discuss the national immunization program
6. Discuss psychosocial, emotional, mental, psychosexual, cognitive, moral, motor growth and development during infancy, and wellness promotion in early and middle childhood and adolescence.
7. Discuss the care of under-five & the role of under-five clinics/well baby clinics
8. Discuss the value of play and selection of play material.
9. Identify the behavioral problems of children, problem of feeding, enuresis, nervousness, nail biting, thumb sucking, temper tantrums, fears, shyness, stealing, and aggressiveness
10. Discuss the principles of preventive pediatrics & IMNCI.
11. Discuss nursing management of common congenital malformations
12. Identify the signs of developmental disabilities, motor delay and care of child with a developmental disabilities (mental retardation).

13. Identify the child with Down syndrome, Turner syndrome, autism and attention deficit disorder.
14. Practice under supervision at different pediatrics department , kindergarten, baby care centers, child health complex and rehabilitation centers e.g. (SOS, Sakina center and Sheshar).

Educational strategies and methods:

- Lecture discussion.
- Case presentation / discussion.
- Supervised visits to orphanages and nurseries.

Evaluation and assessment methods:

- Continuous evaluation(assignment and presentation) 30%
- Written examination 70%

Required resources:

- Lecture hall
- Library
- Transport for field visits
- Skill lab

References and recommended reading material:

- Marlow, Dorothy et al R. Text book of Paediatrics. 6th edition. W.B. Saunder's Company, Philadelphia.
- O P Ghai et al, Essential Pediatrics 6th edition. CBS Publisher and Distributor Delhi. 2008.
- Singh Meherban, Care of the New Born. 3rd edition. Sagar Publication, New Delhi. 1985.
- Behrman E. Richard, Nelsons' Textbook of Pediatrics. 18th edition. W.B. Saunders.

Pediatric nursing (NUR-PED-324) 7 CHs, 7 weeks course
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Course title:	Pediatric nursing
Symbol and number:	NUR-PED-324
Duration and credits:	7 weeks, 7CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Pediatric Nurses
Intended students:	Semester 6
Prerequisites:	Child Health care (NUR-GEN - 313)

Rationale:

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

General objectives:

By the end of this course, the student will be able to:

1. Explain the basic principles involved in pediatric nursing.
2. Provide nursing management for neonates and children with medical and surgical disorders
3. Recognize emergencies in neonates and children and take appropriate first aid measures.

4. Manage normal newborns and low birth weight babies.
5. Describe various aspects of preventive pediatric nursing and be able to practice them while providing nursing care in a hospital or community

Specific objectives:

By the end of this course, the student will be able to:

1. Discuss the modern concepts of child care.
2. Identify internationally accepted rights of children
3. Discuss national programs related to child health and welfare
4. Identify the changing trends in hospital care, preventive, promotive and curative aspects of child health
5. Identify the impact of hospitalization on the child and family
6. Describe the role of a child health nurse in caring for hospitalized children
7. Discuss preventive pediatric care
8. Discuss nursing management of ill children in hospital and at home.
9. Classify diseases common to children.
10. Plan and meet the needs of an ill child in hospital
11. Discuss nursing management in common childhood disease
12. Describe common communicable diseases in children and their nursing management
13. Perform pediatric nursing procedures
14. Define integrated management of neonatal and childhood illness (IMNCI)
15. Discuss accidents: causes and prevention.
16. Classify and discuss nutritional deficiency disorders
17. Discuss principles of pre and post-operative care of infants and children and their nursing management

18. Provide nursing management for children with respiratory disorders - upper respiratory tract: atresia, tonsillitis, epistaxis and aspiration. Lower respiratory tract: bronchiolitis, Bronchopneumonia, asthma, and cystic fibrosis.
19. Discuss and provide nursing management for patients with gastrointestinal infections, infestations and congenital disorders, diarrheal diseases, gastro-esophageal reflux, hepatitis, liver cirrhosis, liver transplantation, malabsorption syndrome, and malnutrition.
20. Provide nursing management for children with cardio -vascular problems e.g. rheumatic fever, rheumatic heart disease and congenital heart disease (cyanotic and a cyanotic).
21. Provide nursing management for patients with neurological infections and disorders- convulsions, meningitis, encephalitis, Gillian- Barre syndrome and epilepsy.
22. Provide nursing management for patients with hematological disorders- anemia, thalassemia, hemophilia, polycythemia, thrombocytopenia, and disseminated intravascular coagulation.
23. Provide nursing management for patients with genito-urinary disorders - nephrotic syndrome, nephritis, recurrent UTI, hydronephrosis, hemolytic-uremic syndrome, renal failure and kidney transplantation.
24. Provide nursing management for patients with endocrine and hepatic disorders - hepatitis, Indian childhood cirrhosis and liver transplantation.
25. Provide nursing management for patients with malabsorption syndrome and patients with malnutrition.
26. Provide nursing management for patients with oncological disorders: leukemia, lymphomas, Wilms' tumor, neuroblastomas, rhabdomyosarcoma, retinoblastoma, hepatoblastma and bone tumours.
27. Provide nursing management for patients with skin disorders.

28. Assessment and nursing interventions in selected pediatric congenital surgical problems:
Cleft lip, cleft palate and conditions requiring plastic surgery, esophageal fistula/atresia, Hirschsprungs' disease/megacolon, gut malrotation, intestinal obstruction, duodenal atresia, gastrochisis, exomphalus, anorectal malformation, omphalocele, diaphragmatic Hernia, spina bifida, meningocele, myelomeningocele, hydrocephalus, hypospadias, epispadias, undescended testes, bladder exstrophy, recurrent UTI and anomalies of the skeletal system.
29. Provide nursing management for patients with poisoning, foreign body obstruction, burns & bites.
30. Provide nursing management for patients oncological disorders: solid tumors of childhood, neuroblastoma, neuroblastoma, Hodgkin's/Non-Hodgkin's lymphoma, hepatoblastoma, rhabdomyosarcoma, and germ cell tumors.
31. Provide nursing management for patients stomas, catheters and tubes.
32. Manage wounds and drains.
33. Provide nursing intensive care for pediatric patients.
34. Demonstrate the ability to resuscitate, stabilize & monitor pediatric patients.
35. Demonstrate the ability to care for a child requiring long-term ventilation
36. Identify and manage the nutritional needs of critically ill children.
37. Discuss and handle legal and ethical issues in pediatric intensive care
38. Provide nursing management for patients with orthopedic disorders
39. Provide nursing management for children with traumatic injuries: head injury, chest, abdominal, back and limbs injuries.
40. Identify common communicable diseases in children, their prevention and nursing management.

41. Identify and manage child health emergencies e.g. poisoning, foreign bodies, hemorrhage, burns and drowning.
42. Provide nursing care for infants and children with HIV/ AIDS
43. Provide nursing care for a normal newborn /essential newborn care.
44. Perform neonatal resuscitation
45. Provide nursing management for low birth weight babies.
46. Define and provide kangaroo mother care.
47. Provide nursing management for neonates with common neonatal disorders.
48. Organize nursing care for neonates.

Educational strategies and methods:

- Lecture discussion.
- Hospital -based teaching
- Supervised Clinical practice.
- Case discussion/presentation.

Evaluation and assessment methods:

- Continuous evaluation(assignment) 20%
- Written examination 30%
- Practical Exam 50%

Required resources:

- Lecture hall
 - Library
 - Pediatric hospital wards
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Recommended Reading materials

- Behrman E. Richard, Nelsons' Textbook of Pediatrics, 18th edition .W.B. Saunders.
- Marlow, Dorthy etall R. Textbook of Paediatrics, 6th edition. W.B. Saunder's Company, Philadelphia.
- P Ghai etall, Essential Pediatrics 6th ed. CBS Publisher and Distributor. Delhi. 2008.
- Singh Meherban, Care of the New Born, 3rd edition. Sagar Publication, New Delhi. 1985.
- Wong I. Dona, Nursing care of infants and children, 7th edition. Mosby's.

Psychiatric Nursing(NUR-PSYC-326) 5CHs,5 weeks course

Course title:	Psychiatric Nursing
Course symbol and number:	NUR-PSYC-326
Duration and credits:	5 weeks, 5CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary group (MDG):	Course coordinator Psychiatric nurse
Intended students:	Semester 5
Prerequisites:	None

Rationale

Nursing is a career based on interaction with all varieties of people. Therefore, nurses need to be aware of psychiatric disease as an independent category of illness and as a complication and a manifestation of other illnesses as well. Nurses, being responsible for administration of medication to patients, have to be aware of the effects of antipsychotic drugs and the psychological side effects of drugs used for other ailments as well.

General objectives:

By the end of this course. the student will be able to:

1. Understand the history of psychiatry and psychiatric nursing.
2. Define o psychiatric terminology.
3. Identify mental disorders and nursing care for neurosis and psychosis.

Specific objectives:

By the end of this course, the student will be able to:

1. Apply nursing care for patients with mental disorders.
2. Plan, implementation and evaluate the nursing care for mental disorder.
3. Differentiate between psychiatric and physical illness.
4. Establish and maintain a good relationship with patient, family, psychiatrist and psychotherapist.
5. Assist the family to accept the disease.
6. Plan a rehabilitation program for treated psychiatric patient to return to community.
7. Recognize early signs of personality disorders and plan preventive measures.
8. Manage patients with addiction.
9. Participate in coordination of a program in mental health for individual, family & community.
10. List medication used in treatment of patients with mental health disorders, their effects and side effects.

Education strategies and methods:

- Lectures
- Seminars
- Training in hospital

Evaluation and assessment methods:

- Continuous evaluation 20%
- Final written examination 80%

Required resources:

- Lecture room
- Transport
- Hospital psychiatric wards

References and recommended reading material :

- Stuart, G.W. and Laraia, M.T. Principles and Practice of Psychiatric Nursing. 8th edition. India . Elsevier, 2008.
- WHO, ICD – 10, Classification of Mental and Behavioural disorders. Geneva 2007.
- Kapoor Bimla, Textbook of psychiatry Nursing. Vol. I and II, 2nd edition, New Delhi. Kumar publishing house, 2001.
- Townsend , M, Psychiatric Mental Health Nursing Concepts of Care in Evidence based practice, 5th edition. New Delhi . Jaypee Brothers .2007.
- Shives, Basic Concepts in Mental Health Nursing, 2nd edition. Philadelphia , J.B. Lippincott, 1990

Research Methodology(NUR-REC-327) 2CHs,2 weeks course

Course title:	Research Methodology
Course symbol and number:	NUR-REC-327
Duration and credits:	2 weeks, 2CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary	Course coordinator
Group (MDG):	Community physician
Intended student:	Semester 6
Prerequisites:	None

Rationale:

The course is designed to teach students how to conduct research study in nursing independently by using scientific statistical methods. It also teaches the students to interpret the results in meaningful way in health related matters & utilize research findings to improve nursing practice

General objectives:

By the end of this course, the student will be able to:

- Understand the scientific research methodology and different methods of conducting research.

Specific objectives:

By the end of this course, the student will be able to:

1. Define the terms used in research
2. Discuss the concepts of scientific inquiry and the importance of scientific research.
3. Define ethical considerations of the scientific research and characteristics of the researcher.
4. Discuss the basic principles of research methodology
5. Critically analyze the different types of research studies
6. Choose and state a research problem
7. Define and identify the sample size and the sampling techniques.
8. Identify tools of data collection (quantitative and qualitative).
9. Identify the different methods of analysis and interpretation of data.
10. Develop and present an acceptable research proposal
11. Demonstrate basic competency to conduct a health related research
12. Demonstrate the ability to write , present, interpret and utilize health related research

Education strategies and methods:

- Lectures
- Seminars

Evaluation and assessment methods:

- | | |
|--|-----|
| - Continuous evaluation(research proposal) | 25% |
| - Final examination | 75% |

Required resources:

- Lecture room
- library

Recommended reading material:

- Best J.W. & Kahn J.V. Research in Education, 9th edition. Pearson Education. 2003.
- Nancy Burns & Susan K. Grove, Understanding Nursing Research. WB Saunders Co.1995.
- Nieswiadomy R.M. Foundations of Nursing Research. 5th edition. India .Pearson education 1993.
- Polit D.&Hungler B. Nursing Research Principles and Methods. 6th edition. Lippincott Williams & Wilkins, 1999.
- Treece E.W. &Treece J.W. Elements of Research in Nursing, 4th edition, C.V. Mosby.

Graduation Project (NUR-PRO-411,421) 2CHs, Longitudinal course

Course title:	Graduation Project
Course symbol and number:	NUR-PRO-411-421
Duration and credits:	Longitudinal -2 credit hours
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary group:	Course coordinator Research methodology specialists
Intended students:	Semester 7&8
Prerequisites:	Research Methodology (NUR-REC-326)

Rationale:

Medical profession is evidence-based and whatever is used in the diagnoses and management of disease or in the promotion of health has to have a sound and correct scientific base, founded on observations, measurements of experimental or naturalistic findings. A health professional has to know how these findings are gathered and be able in the future to conduct research of his/her own, in their area of interest. The nursing council and other bodies governing the process of health care put much weight on nursing professional conduct and practice based on an up-to-date scientific research.

General objectives:

By the end of this course, the student will be able to:

1. Understand the research methodology
2. Present a final research report

Specific objectives:

By the end of this course, the student will be able to:

1. Write a research proposal
2. Perform a literature review
3. Design a questionnaire
4. Collect data from the chosen population
5. Analyze the result.
6. Present a final report
7. Write the references using Harvard referencing method.

Education strategies and methods:

- Individual and group discussion with supervisor

Evaluation and assessment methods:

- Continuous evaluation 100%

Required resources:

- Library
- Room for presentation

Recommended reading material:

- Depoy and Gitlin, Introduction to research. Mosby, ISBN 978-0323028530

Forensic medicine & Law (NUR-LAW -412)-2CHs, longitudinal course

Course title:	Forensic medicine &LAW
Course symbol and number:	NUR-LAW-412
Duration and credits:	2 weeks, 2CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary	Course coordinator
Group (MDG):	Forensic scientist and experts
Intended students:	Semester 7
Prerequisites:	None

Rationale:

Forensic science is a branch of medicine that serves justice by examining material evidence related to civil and criminal context from biomedical aspect. It is important for nurses to learn to apply their nursing knowledge for the administration of law. Areas of interest in both medical and nursing practice include: cause of death, timing of death, identification, paternity, trauma, abortion, infanticide and asphyxia.

General objectives:

By the end of this course, the student will be able to

1. Define forensic medicine
2. Understand the medico 0legal issues
3. Describe signs and causes of death

4. Cooperate with justice authorities in crime detection whether the crime is committed by accident, suicide or homicide.
5. Understand the effects of poisons on human beings through medical statistics.

Specific objectives:

By the end of this course, the student will be able to:-

1. Discuss the legal aspects of the acts and laws dealing with drugs and poison i.e. pharmacy and poisons act, and narcotics and psychotropic act.
2. Classify and define poisons e.g. poisoning by plants, metals and nonmetals, corrosives, hair dyes and poisonous gases and animals e.g. scorpions
3. Outline narcotics and psychotropic like opium and its alkaloids, cannabis, cocaine etc.... and discuss their effects and side effects.
4. Outline the treatment of drug dependency medically and socially
5. Discuss poisoning by pesticides, herbicides, insecticides, rodenticides, e.g. organo phosphorous, paraquat, etc.....
6. Discuss management of poisoning by medical toxicants like carcinogenic, teratogenics and genetic toxicants
7. Identify illegal nursing procedures
8. Discuss methods of managing complications of poisoning including gastric lavage, diuresis, dialysis etc
9. Identify the different signs and time of injury
10. Identify the signs and time of death
11. Identify injuries by rifles and blades
12. Identify signs of violence against women and children
13. Identify signs of sexual assault on both sexes- rape.
14. Discuss the consequences of illegal abortion and miscarriage

Educational strategies and methods:

- Lectures
- Seminars
- Field training
- Assignments
- Group discussion

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture hall
- laboratories
- Library
- Mortuary
- Hospital wards

Recommended reading material:

- Keith Simpson and Bernard Knight, Forensic Medicine .1985.
- Proudfoot AT.Acute Poisoning .1994.
- Rao NG. Textbook of Forensic Medicine and Toxicology, Delhi,2000.
- Richard R.Lingeman, Drugs from A to Z: a dictionary .1974.
- Ted A.Loomis. Essentials of Toxicology.1968.
- Watson I D and ProudfootAT.,Poisoning and Laboratory Medicine.2002.
- William B.Deichmann and Horace W.Gerade, Toxicology of Drugs and Chemicals .1969

Nursing informatics (NUR-INFO-413) 2CHs, Longitudinal course

Course title:	Health informatics
Course symbol and number:	NUR-INFO-413
Duration and credits:	Longitudinal, 2CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary group (MDG):	Course coordinator Computer technologist
Intended students:	Semester 7
Prerequisites:	computer science

Rationale:

Electronic information systems are revolutionising the health-care practice, research and education. Efficient management of information improves patient satisfaction and makes time available for new aspects of practice and for learning. Many health-care professionals realize the need for skills in finding and using information, and in accessing information systems.

General objectives:

By the end of the course, the student will be able to:

1. Understand the terminology and classification of nursing information system
2. Be familiar with data entry and collection in different departments
3. Use the internet as a source of health and nursing informatics

Specific objectives:

By the end of the course, the student will be able to:

1. Define nursing informatics and relevant terminology
2. Discuss the role of information and information technology in the nursing profession
3. Use informatics resources: navigation and electronic communication
4. Design data base for health care
5. Discuss computer -based patient records; issues and ethics
6. Discuss the health sector today (citizen-centered care)

Educational strategies and methods:

- Lectures
- Seminars
- Field training
- Assignment.
- Group discussion.
- practical

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture hall
- Computer laboratory
- Faculty library

Recommended reading material:

- Ball MJ, Hannah KJ. Using computers in nursing. Reston, Va.: Reston Publishing, 1984.
- Graves JR, Corcoran S. The study of nursing informatics. Image. 1989;21(4):227-31. [[PubMed](#)]
- Saba VK, McCormick KA. Nursing Informatics: Essentials of Computers for Nurses. New York: McGraw-Hill, 1996:221-63.
- Scholes M, Barber B. Towards nursing informatics. In: Lindberg DAD, Kaihara S (eds). Medinfo 1980. Amsterdam, The Netherlands: North-Holland, 1980:70-3.
- Staggers N, Thompson CR, Happ B, Bartz C. A new definition for nursing informatics needed [letter]. Image. 1998;30(2):110. [[PubMed](#)]
- Turley J. Toward a model for nursing informatics. Image. 1996;28:309-13. [[PubMed](#)]

Emergency and critical care (NUR-EMER-414)6CHs, 6 weeks course

Course title:	Emergency and critical care
Course symbol and number:	NUR-EMER-414
Duration and credits:	6 weeks, 6 CHs
Staff coordinators:	X
Student coordinator:	X
Multidisciplinary group:	Course coordinator Emergency nurse ICU nurse
Intended students:	Semester 7
Prerequisites:	Adult nursing medical 1&2(NUR-MED-224-215) Adult nursing surgical 1&2(NUR-SURG-225-216)

Rationale:

As health care providers, nurses work on the frontline. Therefore, they need to be well informed and trained for work in emergency rooms. This course provides training in casualties for the student nurses, teaching them the basics of emergency nursing.

General objectives:

By the end of this course, the student will be able to:

1. Describe conditions requiring emergency and critical care and their management.
2. Describe nursing triage.
3. Demonstrate the ability to give care to patients in emergency and to work with health team effectively.
4. Demonstrate the ability to care for patients needing critical medical nursing care (air- way intubations, monitor, CPR, CCU and ICU).

5. Demonstrate skills in handling different equipment used for critical care.
6. Demonstrate competency in handling emergencies.
7. Participate in prevention and control of conditions leading to life threatening situations.

Specific objectives:

By the end of this course, the student should be able to:

1. Discuss the principles of emergency and critical care nursing
2. Perform airway management.
3. Perform management of patients with the following emergency medical conditions:
 - Pulmonary embolism
 - Seizure disorders
 - Diabetic ketoacidosis.
 - Cardiac arrest
 - Cardiac failure
 - Arrhythmias
 - Shock
 - Asthma
4. Perform management of patients with the following emergency surgical conditions:
 - Chest Trauma-Flail chest
 - Hemorrhage/shock
 - Abdominal trauma
 - Back injury
 - Head injuries
5. Provide care for a patient on ventilator,
6. Provide care for comatose patient.
7. Provide care for patients with tracheotomy tube.
8. perform the skills required in critical care:
 - air way intubation
 - Use the Ventilator,

9. Administer advance life support (CPR),
10. Administer Fluid resuscitation
11. Use and observe the Monitors,
12. Use the defibrillator
13. Provide Central line care,
14. Perform an electrocardiography
15. Perform a pulmonary function test
16. Provide chest physiotherapy
17. Perform the following skills:

Critical care unit skills:

- Monitor patients in ICU.
- Maintain a flow sheet.
- Care for ventilated patients .
- Perform endotracheal suction.
- Demonstrates use of ventilators, cardiac monitors etc.
- Collect specimens and interprets ABG analysis.
- Assist with arterial puncture, pulse oximetry.CPR, ALS,defibrillators.
- Prepare an emergency tray/trolley.
- Administer drugs using infusion pump,epidural,intra thecal and intracardiac.
- Perform total parenteral therapy.
- Perform active and passive exercises and chest physiotherapy for patients
- Counsel the patient and family in dealing with grieving and bereavement

Emergency room skills

- Triage patients
- Assist in assessment, examination, investigations and their interpretations, in emergency and disaster situations.
- Assist in documentations.

- Assist in legal procedures in emergency unit.
- Counsel patients and families in grief and bereavement.
- Assess trauma patients.
- □ Assist in application of plaster cast and removal of cast.
- Apply skin traction – Buck’s extension traction.
- Assist in application and removal of prosthesis.
- Assist in physiotherapy – range of motion exercise (ROM), muscle strengthening exercises, daily activities and ambulation
- Teach and counsel patients and families.

Educational strategies and methods:

- Lectures.
- Seminars.
- Small group work
- Assignments
- Hospital clinical nursing training
- Log sheet

Evaluation and assessment methods:

- Continuous evaluation 10%
- Written examination 30%
- Practical examination 60%

Required resources:

- Lecture room
- Library
- Clinical training in hospital emergency rooms and intensive care units

Recommended reading material:

- Brunner & Suddarth's Textbook of Medical Surgical Nursing 11th edition. New Delhi . Lippincott. Publication, 2008.
- Joyce M. Black. Medical Surgical Nursing: Clinical Management for Continuity of Care. 5th edition. India: W.B. Saunders. Company, 1997.
- Luckman, J. Medical Surgical Nursing- A Psychophysiological Approach. 3rd edition.
- Philadelphia WB Saunders Publishers. 66 Phipps & Long & Wood. Shaffer's Medical Surgical Nursing. 7th Edition, USA
- Mosby, 1980. Sandra M. Neetina. Manual of Nursing Practice 7th Edition, India: Lippincott, 2001.

Nursing leadership and care management (NUR-LAD-415)4CHs, 4 weeks course

Course title:	Nursing leadership and care management
Course symbol and number:	NUR-LAD-415
Duration and credits:	4 weeks, 4CHs
Staff coordinators:	X
Student coordinator:	X
Multidisciplinary group:	Course coordinator Community nurse
Intended students:	Semester 7
Prerequisites:	None

Rationale:

The national voice for baccalaureate nursing programs, believes that education has a significant impact on the knowledge and competencies of the nurse clinician, as it does for all health care providers. Nurses with Bachelor of Science in Nursing (BSN) degrees are well-prepared to meet the demands placed on today's nurse. BSN nurses are prized for their skills in critical thinking, leadership, case management, and health promotion, and for their ability to practice across a variety of inpatient and outpatient settings. Nurse executives, federal agencies, the military, leading nursing organizations, health care foundations, magnet hospitals, and minority nurse advocacy groups- all recognize the unique value that baccalaureate-prepared nurses bring to the practice setting.

General objectives:

By the end of the course, the student will be able to:

1. Understand the concept, philosophy, aims & objectives, theories, and principles of management
2. Develop basic skills in the field of nursing management
3. Work as nurse manager at different levels in the health care system.

Specific objectives:

By the end of the course, the student will be able to:

1. Explain 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 programs, 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
13. Identify areas of research in nursing management

Educational strategies and methods:

- Lectures
- Assignments

- Practical training

Evaluation and assessment methods:

- Continuous evaluation 30%
- Written examination 70%

Required resources:

- Lecture room
- Library
- Hospital wards

References and recommended reading material:

- Awasthi and Maheshwari, Public Administration. Lakshmi Narayan Aggarwal Educational Publishers. Agra.
- Davies and Macaulay, Hospital Planning and Administration. World Health Organization. Geneva.
- Goddard, H.A., Principles of Administration Applied to Nursing Service. World Health Organization. Geneva.
- Swans Burg Russell C and Swans Burg Richard S, Introduction to Management And Leadership for Nurse Managers.3rd edition. Jones and Barteett Publishers, Toronto.2002.
- TNAI, Nursing Administration and Management; 1st edition. 2000.

Geriatrics nursing (NUR-GERI-416)2CHs, 2 weeks co
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Course title:	Geriatrics nursing
Course symbol and number:	NUR-GERI-416
Duration and credits:	2 weeks, 2CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary group (MDG):	Course coordinator Community nurse
Intended students:	Semester 7
Prerequisites:	Adult nursing medical 1&2 (NUR-MED-224-215)

Rationale

There is a significant need for more gerontologically trained nursing faculty and registered nurses to address the complex health care needs of the older citizens, whose numbers continue to grow at an unprecedented rate. Nurses play an essential role in the provision of acute and chronic care, health education, and health promotion for this elderly population.

General objectives:

By the end of the course, the student will be able 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. Diagnose and manage acute illness in old age in an in-patient setting and community setting .
3. Provide rehabilitation with the multidisciplinary team for an older patient in an in-patient, out-patient, day hospital and community setting.

Specific objectives:

By the end of the course, the student will be able 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.

Educational strategies and methods:

- Lectures
- Assignments
- Hospital training

Evaluation and assessment methods:

- Continuous evaluation 20%

- Written examination 80%

Required resources:

- Lecture room
- Library
- Geriatrics home
- Hospital wards

Recommended reading material:

- Bastable, Susan B., Nurse As an Educator-Principles Of Teaching & Learning For Nursing Practice. 2nd edition. Jones & Bartlett Publishers, Canada. 2003.
- Fillit HM, Rockwood K, Woodhouse K. Brocklehurst's Textbook of Geriatric Medicine and Gerontology . 7th edition . Saunders, March 2010.
- Kane R, Ouslander J, Abrass I. and Resnick B, Essentials of Clinical Geriatrics. 6th edition .McGraw-Hill Professional. 2008.
- Sally Roach,Introductory Gerontological Nursing .2001. Lippincott Williams& Wilkins, ISBN 0-397-55479-6.
- Stanhope, M. and Lancaster, J. Community Health Nursing: Process and Practice for Promoting Health.3rd edition . Mosby ,Toronto

Community health nursing-2(NUR-COM-417)-4CHs, 5 weeks course

Course title:	Community health nursing -2
Course symbol and number:	NUR-COM-417
Duration and credits:	5weeks, 4CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary Group (MDG):	Course coordinator Community nurse
Intended students:	Semester 7
Prerequisites:	Community health nursing -1 (NUR-COM-127)

Rationale:

The purpose of the nursing program is to educate individuals to competently address the health needs of individuals, families, and communities in a variety of environments. Nursing is a dynamic profession requiring critical and reflective thinking based on current scientific rationale, as well as humanistic perspectives. Partnering with individuals, families, and communities, nurses assist their clients through various life transitions, using sound decision-making and therapeutic communication in their interactions. Competent care requires not only an understanding of bio-psychosocial processes, but also the socio-environmental and cultural contexts that affect patients, families, and communities.

General objectives:

By the end of the course, the students will be able to:

1. Outline the national health and family welfare programs
2. Discuss the concept of school health and occupational health
3. Identify international health programs.
4. Plan and participate in rehabilitation for a community population
5. Discuss trends and issues related to community health nursing, reproductive and child health, school health, occupational health, international health rehabilitation.

Specific objectives:

By the end of the course, the students will be able 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 intersectoral approach.
4. Describe the role and responsibilities of community health nurse in various national health and family welfare programs.
5. Participate in the implementation of various national health and family welfare programmed.
6. Demonstrate competencies in providing family centered 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 center / primary health center / community health care and develop standards for community health nursing practice.

Educational strategies and methods:

- Lectures
- Small group discussion
- Assignments

- Practical training
- Visit to family residences, and facilities within a local community

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 80%

Required resources:

- Lecture room
- Library
- Home visits

Recommended reading material:

- Gulani, Krishna Kumari, Community Health Nursing Principles and Practices. First edition. Kumar Publishing House, Delhi. 2006.
- J.E. Park, Textbook of Preventive and Social Medicine. 20th edition. Banarsidas Bhanot Publishers, Jabalpur. 2009.
- Patney Sunita ,Textbook of Community Health Nursing. First edition. Modern Publishers, Delhi. 2005.
- Rao K.S, An Introduction to Community Health Nursing, 3rd edition. B.I., Publications, Chennai. 2002.
- Stanhope, M. and Lancaster, J. Community Health Nursing: Process and Practice for Promoting Health.3rd edition. Mosby, Toronto.

Medical Nursing-consolidation (NUR-MED -422) 5CHs, 5weeks course

Course title:	Medical Nursing -consolidation
Course symbol and number:	NUR-MED-422
Duration and credits:	5 weeks, 5CHs
Staff coordinator:	X
Student coordinator:	X
Responsible multidisciplinary	Course coordinator
Group (MDG):	Medical nursing instructor
Intended students:	Semester 8
Prerequisites:	Adult nursing medical -1& 2 (NUR-MED-224-215)

Rationale:

In their final semester, student nurses get the chance to consolidate both their knowledge and skills preparing them for a future career in the health service.

This course focuses on medical nursing practice.

General objectives:

By the end of the course, the student will be able to:

- Apply organizational skills in the nursing care of multiple patients, and in interactions with other members of the health care team

Specific objectives:

By the end of the course .the student will be able to:

1. Organize nursing care to the advantage of the patient and in cooperation with other members of the health care team.
2. Demonstrate knowledge of the patient's (s') condition(s), continually assesses patient(s) for changes in condition and needs.

3. Obtain report on assigned patient(s) and inform instructor with findings.
4. Inform appropriate members of the health care team of changes in the patient condition/needs.
5. Revise plan of care appropriately to reflect incorporation of information received in report.
6. Develop plan of care that reflects use of the nursing process.
7. Integrate new data into plan of care.
8. Write reasonable/achievable expected outcomes.
9. Disseminate pertinent information about the patient to other members of the health care team
10. Prioritize nursing care, use principles of time management, and adapt nursing care to meet changing patient needs, work cooperatively with others.
11. Identify appropriate referral services and resources in the hospital and the community and make recommendations to health team.

Educational strategies and methods:

- Lectures
- Seminars, field training, assignment, group discussion.
- Practical: nursing skills demonstration (nursing skills lab).
- Clinical practice in hospital

Evaluation and assessment methods:

- Continuous evaluation 10%
- Written examination 30%
- Practical examination 60%

Required resources:

- Lecture room

- Basic skill laboratory
- Faculty library
- Teaching Hospital

Recommended reading material:

- Brunner & Suddarth's Textbook of Medical Surgical Nursing .11th Edition. New Delhi .Lippincott Publication. 2008.
- Joyce M. Black, Medical Surgical Nursing Clinical Management for Continuity of Care.5th edition. India. W.B. Saunders Company. 1997.
- Luckman, J. Medical Surgical Nursing- A Psychophysiological Approach. 3rd edition. Philadelphia WB Saunders Publishers Phipps , Long & wood. Shaffer's Medical Surgical Nursing. 7th edition. USA. Mosby.
- Sandra M. Neetina. Manual of Nursing Practice 7th edition. India. Lippincott, 2001.

Surgical nursing -consolidation(NUR-SURG-423) 5CHs,5weeks course

Course title:	Surgical nursing -consolidation
Course symbol and number:	NUR-SURG-423
Duration and credits:	5 weeks, 5CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary Group (MDG):	Course coordinator Surgical nurse instructor
Intended students:	Semester 8
Prerequisites:	Adult nursing surgical -1& 2 (NUR-SURG-225-216)

Rationale:

In their final semester, student nurses get the chance to consolidate both their knowledge and skills preparing them for a future career in the health service. This course focuses on surgical nursing especially preoperative and postoperative preparation.

General objectives:

By the end of the course, the student will be able to:-

1. Describe the principles of surgical nursing.
2. Explain primary, secondary and tertiary care for patients with general surgical conditions.
3. Apply holistic nursing care including physical, mental and social care in the nursing process.

Specific objectives:

By the end of the course, the student will be able to:-

1. Demonstrate the ability to apply nursing process (assessment, planning, implementing and evaluating) for patients in specific surgical conditions.
2. Provide nursing care for patients with surgical gastro- intestinal condition: disorders of mouth, esophagus, stomach, small & large intestine and the gallbladder.
3. Provide nursing care and pre, intra and post operative management for patients with gastro- intestinal surgery (surgical conditions of the mouth, appendectomy, intestinal obstruction, stomach surgery, hemorriodectomy, cholecystectomy and colostomy).
4. Demonstrate the ability to care effectively for patients with, neurosurgical problems (head injuries, tumors, intra cranial bleeding).
5. Provide pre, intra and post operative nursing management for patients going for neurosurgery.

Educational strategies and methods:

- Lectures
- Seminars, field training, assignment, group discussion.
- Practical: nursing skills demonstration (nursing skills lab).
- Clinical practice in hospital

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 30%
- Practical examination 50%

Required resources:

- Lecture room,
- Skill lab.
- Library
- Hospital surgical wards

Recommended reading material:

- Brunner & Suddarth's Textbook of Medical Surgical Nursing 11th edition. New Delhi .Lippincott. Publication, 2008.
- Joyce M. Black. Medical Surgical Nursing Clinical Management for Continuity of Care.5th edition. India. W.B. Saunders Company. 1997.
- Phipps & Long & wood. Shaffer's Medical Surgical Nursing. 7th edition. USA. Mosby, 1980.
- Luckman, J. Medical Surgical Nursing- A Psychophysiological Approach. 3rd edition. Philadelphia ,WB Saunders Publishers.
- Sandra M. Neetina. Manual of Nursing Practice .7th edition. India. Lippincott, 2001.

**Obstetric and gynecological nursing -consolidation(NUR-OBGYN-424) 4CHs
,4weeks course**

Course title:	Obstetric and gynecological nursing- Consolidation
Course symbol and number:	NUR-OBGYN-424
Duration and credits:	4weeks, 4CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary:	Course coordinator
Group (MDG):	Obs& gyne nurse instructor
Intended students:	Semester 8
Prerequisites:	Obstetric nursing (NUR-OBS-315) Gynecological-nursing (NUR-GYN-316)

Rationale:

In their final semester, student nurses get the chance to consolidate both their knowledge and skills preparing them for a future career in the health service. This course focuses on skills needed in obstetrical nursing to care for normal and high risk pregnant women during antenatal, natal and postnatal periods in hospitals and community settings.

General objectives:

By the end of this course, the student will be able to:

1. Provide nursing care for pregnant women during prenatal, intra-natal and post natal periods.

2. Provide nursing care for high risk pregnant women during prenatal, intra-natal and post natal periods.
3. Assess and manage neonates.

Specific objectives:

By the end of this course, the student should be able to:

1. Identify the role of nurses in midwifery and obstetrical care.
2. Assist and manage normal labour.
3. Recognize signs of abnormal labour and report to senior colleagues.
4. Assist in managing abnormal labour.
5. Provide proper antenatal care and management.
6. Recognize signs of high risk pregnancy and refer patients accordingly.
7. Assess and manage patients with high risk conditions of pregnancy e.g. vesicular mole, hydramnios, hyper emesis, pre-eclampsia , eclampsia and hemorrhages during pregnancy.
8. Take proper obstetrical history and perform an obstetrical examination.
9. Assess and manage obstetrical emergencies
10. Assess and manage abnormal puerperium.
11. Perform postnatal assessment of patients and manage them accordingly.
12. Assess and manage normal neonates.
13. Assess and manage high risk newborns.

Educational strategies and methods:

- Lectures,
- Seminars,
- Assignments
- Practical: nursing skills demonstration (nursing skills lab).
- Clinical practice in hospital

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 30%
- Practical examination 50%

Required resources:

- Lecture room
- Skill lab.
- Hospital obstetrical wards

Recommended reading material:

- Basvanthappa B.T., Midwifery and Reproductive Health Nursing. 1st edition. Jaypee Publishers .2006.
- Bennett Ruth V., Myles' Textbook for Midwives. 13th edition. Churchill Livingstone,London,.2001.
- Dutta D.C., Text book of Obstetrics, 5th edition. New Central Book Agency,Calcutta. 2007.
- Salhan Sudha, Textbook of Obstetrics, 1st edition. Jaypee Publishers, New Delhi.2007.
- Wong et al, Maternal& Child Nursing Care, 1st edition, Mosby Inc., 1998.

Pediatric nursing -consolidation (NUR-PED-425) 4CHs,4weeks course

Course title:	Pediatric nursing-consolidation
Course symbol and number:	NUR-PED-425
Duration and credits:	4 weeks -4CHs
Staff coordinators:	X
Student coordinator:	X
Responsible multidisciplinary:	Course coordinator
Group (MDG):	Pediatric nurse instructor
Intended students:	Semester 8
Prerequisites:	Child health care (NUR-WEL-323) Pediatric nursing (NUR-PED-324)

Rationale:

In their final semester, student nurses get the chance to consolidate both their knowledge and skills preparing them for a future career in the health service. This course focuses on skills required for pediatric nursing.

General objectives:

By the end of this course, the student will be able to:

1. Provide nursing management for neonates and children with medical and surgical disorders.
2. Recognize emergencies in neonates and children and take appropriate first aid measures.

Specific objectives:

By the end of this course, the student will be able to:

1. Plan and meet the needs of an ill child in hospital.

2. Manage wounds and drains for pediatric patients.
3. Provide intensive nursing care for pediatric patients.
4. Demonstrate the ability to resuscitate, stabilize & monitor pediatric patients.
5. Provide nursing management for children with traumatic injuries head injury, chest, abdominal, back and limbs injuries.
6. Identify and manage children with health emergencies e.g. poisoning, foreign bodies, hemorrhage, burns and drowning .
7. Provide nursing care for infants and children with HIV/ AIDS
8. Provide nursing care for a normal newborn /essential newborn care.
9. Perform neonatal resuscitation
10. Provide nursing management for low birth weight babies.
11. Provide nursing management for neonates with common neonatal disorders.
12. Perform pediatric nursing procedures
13. Provide nursing management for children with respiratory, gastrointestinal, cardio -vascular, neurological, hematological, genitourinary, endocrine, hepatic and oncological disorders.
14. Provide nursing management for patients with stomas, catheters and tubes.

Educational strategies and methods:

- Lectures,
- Seminars
- Assignment
- Practical sessions in skills lab
- Hospital clinical training

Evaluation and assessment methods:

- Continuous evaluation 20%
- Written examination 30%
- Practical examination 50%

Required resources:

- Lecture room
- Skill laboratory
- Library
- Hospital pediatrics wards
- Transport

Recommended reading material:

- Marlow, Dorothy et al. R. Textbook of Paediatrics. 6th edition. W.B. Saunders's Company, Philadelphia.
- Behrman E. Richard, Nelsons Textbook of Pediatrics. 18th edition W.B. Saunders Company.
- O P Ghai et al., Essential Pediatrics 6th edition. CBS Publisher and Distributor, Delhi. 2008.
- Singh Meherban, Care of New Born, 3rd edition. Sagar Publication, New Delhi. 1985.
- Wong I. Dona, Nursing care of infants and children. 7th edition. Mosby, s.