Ordinance Governing Syllabus / Curriculum of

B. Sc. Nursing Degree Programme



D. Y. Patil Education Society

D. Y. Patil University,

(Institution Deemed to be University)
(Declared u/s 3 of the UGC Act 1956 vide Notification No. F.9-26/2004-U-3 Dt. 01-09-2005 of the GOI)
Reaccredited by NAAC with 'A' Grade

D. Y. Patil College of Nursing

Kadamwadi, Kolhapur (Maharashtra) Phone: (0231) 2657017

B.Sc. Nursing Degree Programme

Edition Year: 2019

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Publisher:

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Printed by:

TANUSH GRAPHICS

Shri Shahu Market Yard, Near Police Chauki, State Bank Road, Market Yard, Kolhapur - 416 005.

Mob.: 9922430684

VISION:

To become a world class institution of higher learning in health sciences education, training and research.

MISSION:

- To provide quality education and skill development in health sciences and other related areas for development of professional human resources.
- To engage in interdisciplinary research and innovations for furtherance of knowledge, technology and community development.
- To put in place dynamic techno-structure for effective use of technology in curriculum development, pedagogy, student evaluation and system management.
- To develop symbiotic relations with industry, academic and research institutions and community to meet the expectations of various stakeholders in education.
- To create learner centric ecosystem for the all-round development of the learners.

GOAL:

University to be recognized as one of the top institutions of higher learning in next decade and to get worldwide recognition.



Logo of the University

Our logo is a remarkable, systematic and meaningful interweaving of shapes, images and quotation all perfectly blended together.

The Sanskrit quotation at the centre is our Motto "Dnyanadheenam Jagat Sarvam" meaning "Knowledge is Everything in the World". The quotation reflects the narrative of this university, the belief that education can change lives, nations and the destiny of mankind.

The University commits to providing holistic training with knowledge in technical areas as well as comprehensive training in communications skills, ethics, soft skills and development of humane attitude and empathy.

The symbol in the centre portrays the Indian deity of knowledge Goddess Saraswati showering blessings on the learners.

The twenty-four Lotus petals and white colour indicate that knowledge is supreme in the world.

The image of Eagle at the top represents a sense of courage and a desire to explore and grow.



D. Y. PATIL EDUCATION SOCIETY, KOLHAPUR

(Institution Deemed to be University)

(Declared u/s 3 of the UGC Act 1956 vide Notification No. F.9-26/2004-U.3 dt. 01-09-2005 of the GOI)

Reaccredited by NAAC with 'A' Grade

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Dr. V.V. Bhosale Registrar

No. DYPES/DU/2019/3005

Date: - 03-10-2019

NOTIFICATION

Sub: Rules governing the syllabi/curriculum for B.Sc. (Nursing) Programme.

Ref: Minutes of the meeting of the Academic Council of the University held on 19th July 2019.

In exercise of the powers and functions of the Academic Council under Rule A.19 of the Memorandum of Association of the university, the Academic Council of the University is pleased to approve the rules governing the syllabi/curriculum for B. Sc. (Nursing) Programme in its meeting held on 19th July 2019.

These rules shall be effective for the students admitted B.Sc. (Nursing) in the constituent unit of the University viz. D. Y. Patil College of Nursing, Kolhapur from the academic session 2019-2020.

By order

Registra

To,

- The Principal,
 D. Y. Patil College of Nursing,
 Kolhapur
- The Controller of Examinations
- The Librarian

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Section - I

PREAMBLE

Nursing encompasses autonomous and collaborative care of individuals of all ages, families, groups and communities, sick or well and in all settings. Nursing includes the promotion of health, prevention of illness, and the care of ill, disabled and dying people. Advocacy, promotion of a safe environment, research, participation in shaping health policy and in patient and health systems management, and education are also key nursing roles.

The authority for the practice of nursing is based upon a social contract that delineates professional rights and responsibilities as well as mechanisms for public accountability. In almost all countries, nursing practice is defined and governed by law, and entrance to the profession is regulated at national or state level.

The aim of the nursing community worldwide is for its professionals to ensure quality care for all, while maintaining their credentials, code of ethics, standards, and competencies, and continuing their education. There are a number of educational paths to becoming a professional nurse, which vary greatly worldwide, but all involve extensive study of nursing theory and practice and training in clinical skills.

Nurses care for individuals who are healthy and ill, of all ages and cultural backgrounds, and who have physical, emotional, psychological, intellectual, social, and spiritual needs. The profession combines physical science, social science, nursing theory, and technology in caring for those individuals.

The role of the nurse is evolving, as the mode of delivery of health care services has undergone major changes both locally and internationally in the past decades. In line with international trends, we are developing a health care system that provides lifelong holistic care, promotes health, enhances the quality of life and enables human development. The availability of qualified and competent health care professional is the key to the delivery of quality health care services. As nurses play a pivotal role in the promotion, maintenance and restoration of health, we need to develop competent nurses who are able to take up extended and expanded roles in the delivery of primary, secondary and tertiary care. Thus, apart from the roles of a caregiver, the nurse needs to develop competence to take up the roles of health promoter, educator, counsellor, care coordinator, case manager, researcher as well as that the students acquires the essential competence that enables them to fulfil these roles competently and ethically.



Section - II

GOALS OF NURSING EDUCATION

As per Indian Nursing Council,

Various Goals of education & training in Nursing at D.Y.Patil University are as follows:

- Develop competent nursing graduates who uphold values of truth, integrity, peace, democracy and human rights.
- Promote and partake in academic programmes that invoke personality development, social involvement and are responsive to national and international health care standards.
- Generate significant research programs which contribute to an evidence-based, scientific and technologically-advanced nursing education
- Enhance accessibility to better educational opportunities for deserving and qualified students through establishment of local and international academic linkages.



Section - III

AIMS AND OBJECTIVES OF B.Sc. NURSING PROGRAMME

As per Indian Nursing Council,

AIM:

The aim of the undergraduate nursing program is to:

- Prepare graduate to assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative, and rehabilitative services.
- Prepare nurses who can make independent decisions in nursing situations, protect the rights of and facilitate individuals and groups in pursuit of health, function in the hospital, community nursing services, and conduct research studies in the areas of nursing practice. They are also expected to assume the role of teacher, supervisor, and manager in a clinical/public health setting.

OBJECTIVES:

On completion of the four year B.Sc Nursing program the graduate will be able to:

- 1. Apply knowledge from physical, biological, and behavioural sciences, medicine including alternative systems and nursing in providing nursing care to individuals, families and communities.
- 2. Demonstrate understanding of life style and other factors, which affect health of individuals and groups.
- 3. Provide nursing care based on steps of nursing process in collaboration with the individuals and groups.
- 4. Demonstrate critical thinking skill in making decisions in all situations in order to provide quality care.
- 5. Utilize the latest trends and technology in providing health care.
- 6. Provide promotive, preventive and restorative health services in line with the national health policies and programmes.
- Practice within the framework of code of ethics and professional conduct, and acceptable standards of
 practice within the legal boundaries.
- 8. Communicate effectively with individuals and groups, and members of the health team in order to promote effective interpersonal relationships and teamwork.
- 9. Demonstrate skills in teaching to individuals and groups in clinical/community health settings.
- 10. Participate effectively as members of the health team in health care delivery system.
- 11. Demonstrate leadership and managerial skills in clinical/community health settings.
- 12. Conduct need based research studies in various settings and utilize the research findings to improve the quality of care.
- 13. Demonstrate awareness, interest, and contribute towards advancement of self and of the profession.



Section - IV

REGULATIONS GOVERNING B. Sc. NURSING DEGREE PROGRAMME

1. Eligibility:

Qualifying Examination

A candidate seeking admission to first B.Sc. Nursing Programme:

- 1. 10+2 with 45 % marks in science with PCB from any recognised board
- 2. Candidates are also eligible from state open school recognised by state Govt and National institute of open school recognised by central Govt having science subject and English only.
- 3. 5% of total mark is relaxed for SC / ST candidates.
- 4. Any other reservation as per the state Govt under the reservation policy SC, ST, NT& OBC
- 5. Reservations shall be included in the seats sanctioned and not above it.

Reservation Policy:

- For Disabled Candidates: 5% Disability reservation to be considered with a disability of locomotors to the tune of 40% to 50% of the lower extremity. Further, it has also been resolved that a committee to be formed consisting of medical officers authorized by medical board of State Government and a Nursing Expert in the panel which may decide whether the candidates have the disability of locomotors of 40% to 50%.
- Admission under the reserved quota shall be subjected to reservation policy and eligibility criteria for SC/ST/OBC/PH/EWS as prescribed by the central Government / state Government/ Union Territory as applicable to the college concerned.
- All the above said points will be implemented from the current academic year 2019- 20 as per INC circular dated 18th April 2019.

Age:

The candidate should have completed 17 years on or before 31st day of December of the year of admission.



Medical Fitness:

Candidates shall be medically fit. However, colour blind candidates should be considered for admission to Nursing courses subject to the condition that colour corrective contact lens and spectacles are worn by such candidates.

2. Selection:

Selection of the candidates is based on merit in the Common entrance examination held by D.Y.Patil Education Society (Deemed University), Kolhapur.

3. Duration of Programme:

Every student shall undergo a period of certified study extending over four academic years from the date of commencement of his/her study, which includes internship.

4. Attendance:

Every candidate should have attendance not less than 80% of total classes in theory and practical/clinical separately in each subject in each academic year calculated from the date of commencement of the term to the last working day as notified by the University. However, A candidate should complete 100% attendance in each of the practical areas before the award of the degree. A candidate lacking in the prescribed attendance and progress in any subject in theory or practical/clinical shall not be permitted to appear for the University examination in those subjects.

5. Medium of Instruction:

English shall be the medium for the programme as well as for the examination.



Section - V SUBJECTS AND TEACHING SCHEDULE

TABLE 1: FIRST YEAR BASIC B.SC NURSING

Sr. No	Subjects	Theory Hours	Practical / Clinical Hours	Hours
1.	English	60		
2.	Anatomy	60		
3.	Physiology	60		
4.	Nutrition	60		
5.	Biochemistry	30		
6.	Nursing Foundation	265 + 200	450	
7.	Psychology	60		
8.	Microbiology	60		
9.	Introduction to computers	45		
10.	Hindi/ regional language	30		
11.	Library Work / Self study			50
12.	Co-curricular activities			50
	TOTAL	930	450	100
		TOTAL HOURS :	= 1480 HRS	

TABLE 2: SECOND YEAR BASIC B. SC. NURSING

S. No.	Subjects	Theory hours	Practical hours	Hours
1	Sociology	60		
2	Pharmacology	45		
3	Pathology	30		
4	Genetics	15		
5	Medic al Surgical Nursing (Adult including Geriatrics) – I	210	720	
6	Community Health Nursing – I	90	135	
7	Communication and education Technology	60+30		
8	Library work/ self study			50
9	Co-Curricular Activities			35
	TOTAL	590	855	85
	TOTAL	HOURS = 1480 HF	RS	



TABLE 3: THIRD YEAR BASIC B. SC. NURSING

S. No.	Subjects	Theory Hours	Practical Hours	In Hrs
1.	Medical Surgical Nursing (adult including geriatrics) - II	120*	270*	-
2.	Child Health Nursing	90	270	-
3.	Mental Health Nursing	90	270	-
4.	Nursing Research & Statistics	45*	45*	-
5.	5. Library work/ self study			50
6.	Co-curricular activities			50
	Total hours	390	990	100
	TOTAL HOURS =	1480 HOURS		

TABLE 4: FOURTH YEAR BASIC B. SC. NURSING

S. No.	Subjects	Theory Hours	Practical Hours	In Hours		
1.	Midwifery & Obstetrical Nursing	90	180	-		
2.	Community Health Nursing- II	90	135	-		
3.	Management of Nursing services & Education	60	30	-		
	Total hours	240	345	-		
	TOTAL HOURS = 585 HOURS					



INTERNSHIP (INTEGRATED PRACTICE) INCLUDED IN FOURTH YEAR B.SC. (N)

(Internship – 48 hrs/week)

S.No.	INTERNSHIP SUBJECTS	PRACTICAL HOURS	IN WEEKS		
1.	Midwifery & Obstetrical Nursing	432	9		
2.	Community Health Nursing- II	192	4		
3.	Medical Surgical Nursing	240	5		
4.	Child Health Nursing	144	3		
5.	Mental Health Nursing	96	2		
	Total Hours	1104			
	Total Hours of IV Year including Internship = 1689 HOURS				

Note:

- 1. Internship means 8 hours of integrated clinical duties in which 2 weeks of evening and night shift duties are included.
- 2. Internship should be carried out as 8 hours per day @ 48 hours per week.
- 3. Students during internship will be supervised by nursing teachers.
- 4. Students will be eligible to appear in the Fourth year final examination only after completion of internship.

Internal Assessment

Regular periodic assessment shall be conducted throughout the programme. Although the question of number of tests is left to the institution at least three tests in theory and 2 practical each year be held. The test preceding the institution examination may be similar to the pattern of university examination. Average of the marks of the three tests for theory and 2 practical separately shall be sent to the university.

Average internal marks of the total students more than 75% i.e. if 40 students are admitted in a course the average score of the 40 students shall not exceed 75% of total internal marks.



SECTION - VI

SCHEME OF EXAMINATION FIRST YEAR

TABLE 6 : DISTRIBUTION OF SUBJECTS AND MARKS FOR INTERNAL ASSESSMENT AND UNIVERSITY EXAMINATION

S. No	Subjects	Internal Assessment	University Examination	Total	
	Theory				
1.	Anatomy & Physiology	25	75	100	
2.	Nutrition & Biochemistry	25	75	100	
3.	Nursing Foundation	25	75	100	
4.	Psychology	25	75	100	
5.	Microbiology	25	75	100	
6.	English*	25	75	100	
7.	Introduction to computers*	-	50	50	
	Practical & Viva Voce				
1.	Nursing Foundation	100	100	200	
	Introduction to computers*	-	50	50	

^{*}Respective colleges will conduct examination for Introduction to Computers and English as college examination. Marks to be sent to the university.



SECOND YEAR

Table 7 : DISTRIBUTION OF SUBJECTS AND MARKS FOR INTERNAL ASSESSMENT AND UNIVERSITY EXAMINATION

S. No.	Subject	Internal Assessment	University Examination	Total
	Theory			
8	Sociology	25	75	100
9	Medical Surgical Nursing – 1	25	75	100
10	Pharmacology, Pathology , Genetics	25	75	100
11	Community Health Nursing	25	75	100
12	Communication Education Technology	25	75	100
13	Environmental Science*	25	75*	100
	Practical & Viva voce			
2	Medical – Surgical Nursing - I	100	100	200

^{*}Environmental science is College Examination

THIRD YEAR

TABLE 8: DISTRIBUTION OF SUBJECTS AND MARKS FOR INTERNAL ASSESSMENT AND UNIVERSITY EXAMINATION

S. No.	Subjects	Internal Assessment	University Examination	Total
	Theory	•		
13.	Medical Surgical Nursing – 1I	25	75	100
14.	Child Health Nursing	25	75	100
15.	Mental Health Nursing	25	75	100
16.	Nursing research & Statistics	25	75	100
	Practical & Viva Voce	•		
3.	Medical Surgical Nursing - II	50	50	100
4.	Child Health Nursing	50	50	100
5.	Mental Health Nursing	50	50	100



FOURTH YEAR

TABLE 9: DISTRIBUTION OF SUBJECTS AND MARKS FOR INTERNAL ASSESSMENT AND UNIVERSITY EXAMINATION

S. No.	Subjects	Internal Assessment	University Examination	Total
	Theory			
17.	Midwifery and Obstetrical Nursing	25	75	100
18.	Community Health Nursing - II	25	75	100
19.	Management of Nursing services and Education	25	75	100
	Practical & Viva Voce	•		
6.	Midwifery and Obstetrical Nursing	50	50	100
7.	Community Health Nursing	50	50	100
8.	MLHP	100	-	100
9.	Internship	100	-	100

Note:

- 1. Anatomy and Physiology –Question paper will consist of section A Anatomy of 37 marks and B Physiology should be of 38 marks.
- 2. Nutrition and Biochemistry and Question paper will be consist of Section A Nutrition of 45 marks and Section B of Biochemistry of 30 marks.
- 3. Pharmacology ,genetics ,pathology : Section A of Pharmacology with 38 marks ,Section B of Pathology of 25 and Genetics with 12 marks.
- 4. Nursing Research and Statistics Nursing Research should be of 50 marks and Statistics of 25 marks.
- 5. Minimum pass marks shall be 40 %for English only.
- 6. Theory and practical exam Introduction to computer to be conducted as College exam and marks to be send to the University for inclusion in the marks sheet.
- 7. Minimum pass marks shall be 50 % in each of the theory and practical papers separately.
- 8. A candidate must have minimum of 80 % attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination .



- 9. A candidate must have 100% attendance in each of the practical areas before award of degree.
- 10. A candidate has to pass in internal and external exam separately in each of the paper.
- 11. If candidate fails in either theory and practical paper he/she has to re-appear for both the papers (Theory and practical).
- 12. The candidate if fails can be permitted for admission to next year.
- 13. The Candidate shall have be clear all the previous examination before appearing for final year examination.
- 14. No institution shall be submit average internal marks of the test students more then 75% i.e., if 40 students are admitted in a course, the average score of the 40 students shall not exceed 75% of total internal marks. (Example of 5 students: A=25,B=20,C=22,D=21,E=24 Average score =89.6%. This will not be accepted by the state Nursing Registration Council)
- 15. The maximum period to complete the course successfully should not exceed 8 years.
- 16. Maximum number of candidates for practical examination should not exceed 20 per day.
- 17. All practical examinations must be held in the respective clinical areas.
- 18. One internal and One external examiners should jointly conduct practical examination for each student.
- 19. An examiner should be a lecture or above in college of nursing with M.Sc.(N) in concerned subject and minimum of 3 years of teaching experience in the collegiate program .To be an University for inclusion in the mark sheets.
- 20. On completion of internship, internal assessment of 100 marks should be sent to the University for inclusion in the mark sheets.
- 21. Final year marks shall be withheld till the candidate completes required attendance for practical and internship.
- 22. On completion of internship, internal assessment out of 100 marks should be sent to the University for Inclusion in the mark sheet.
- 23. Final year examination results shall be withheld till the candidate completes requires attendance for practical and internship.



Maximum number of candidates for practical examination

Maximum number of candidates is 20 per day for each subject.

Maximum number of attempts and maximum period for completion of the programme

The number of attempts for examination has been waived off. However to appear for final year examination, the candidate shall have cleared all the previous examination.

Declaration of Class: (Only in the final year examination)

- a) A candidate who appeared in all the subjects in the same examination and passed that examination in first attempt and secures 75% of marks or more of grand total marks prescribed will be declared to have passed the examination **First Class with Distinction.**
- b) A candidate who appeared in all the subjects in the same examination and passed that examination in first attempt and secures 65% of marks or more but less than 75% of grand total marks prescribed will be declared to have passed the examination in **first class.**
- c) A candidate who appeared in all the subjects in the same examination and passed that examination in first attempt and secures 55% of marks or more but less than 65% of grand total marks prescribed will be declared to have passed the examination in **second class**.
- d) A candidate, passing the University Examination with less than 55% marks or passing in more than one attempt shall be placed in **pass class** irrespective of the percentage of marks secured by him/her in the examination.

Award of degree:

Must have 100 % attendance in each of the practical areas before award of degree.

Number of Examiners:

One internal and one external examiner should jointly conduct practical / clinical examination for each student.



Section VII

SYLLABUS B.Sc. NURSING PROGRAMME (1st Year) ENGLISH

Placement : First Year Theory - 60 Hours

Course description: The course is designed to enable students to enhance ability to comprehend spoken and written English (and use English) required for effective communication in their professional work. Students will practice their skills in verbal and written English during clinical and classroom experience.

Unit	Time (Hrs)	Learning Objectives	Contents	Teaching Learning Activities	Assessment Methods
I	10	 Speak & write grammatically correct English Review of grammar 	 Remedial study of grammar Building Vocabulary phonetics Public speaking 	 Demonstrate use of Dictionary Class room conversation Exercise on use of Grammar Practice in Public speaking 	Objective typeFill in the blanksPara - phrasing
II	30	Develop ability to read, understand and express meaningfully, the prescribed text.	Read and comprehend prescribed course books	Exercise on: Reading Summarizing Comprehension	Short Answers.Essay type questions.
III	10	Develop writing skills	 Various forms of composition Letter writing Note takings Précis writings Nurses Notes Anecdotal records Diary writing Reports on health problem Resume /CV 	Exercise on: • Letter writing • Note making & Note takings • Précis writings • Nurses Notes • Anecdotal records • Diary writing • Reports on health problem • Story writing • Resume /CV • Essay writing Discussion on written reports / documents	Assessment of the skills based on the checklist.



IV	6	Develop skill in speaking English	 Spoken English Oral report Discussion Debate Telephonic Conversion 	Exercise on: • Debating • Participating in Seminar, Panel, Symposium • Telephonic • Conversion	Assessment of the skills based on the checklist.
V	4	Develop skills in listening comprehension	 Listening Comprehension Media, audio, video, speeches etc. 	Exercise on: • Listening to audio, video tapes and identify the key points.	Assessment of skills based on the check list

Further suggested teaching learning activities

Unit I

GRAMMER AND VOCABULARY

- Revising parts of speech
- Pairs of confused words, synonyms & Antonyms
- Lexical sets & collocations
- Using appropriate words and expressions

Unit II

LISTENTING SKILLS

- Audio rendition of British & American Dialects of English.
- Students listening to cassettes.
- Teachers reading the loudly.

Unit III

SPEAKING SKILLS

- Pronunciation.
- Accentual & intonation pattern.
- Maxims of conversational skills.



Unit IV

READING SKILLS

- Text:

Developing your English by Gokhale& Robinson
Discourse skills in English by Grace Jecob, Narkar&Halliday
Eight short stories by K.N. VasudevaPanikkar

- Skimming & Scanning, reading in sense group.
- Avoiding Clumsiness & ambiguities
- Example : (Indian wives eat after eating their husbands)

Unit V

WRITING SKILLS

- Choice of words and structures for effective writing
- Example: Nurses make a lot of money.
- It is nurses who make a lot of money.
- Punctuation

Example: Hang, not leave him.

Hang not, leave him.

- Organization of material effectively.

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- 6. English for Nurses Mallika Balu 2011
- 7. Living English Grammar & Composition Tickoo M.L. & Subramaniam A.E, Oriental Longman, New Delhi.
- 8. English for practical purposes Valke, Thorat Patil & Merchant, Macmillan Publication, New Delhi.
- 9. Enriching your competence in English, by Thorat, Valke, Orient Publication, Pune
- 10. English Grammar & Composition Wren & Martin, S. Chand Publications-2005, Delhi.



DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT ENGLISH

Question No.	Question description	Division of marks	Total marks			
1.	MCQs	15 x 1	15			
2.	Long Answer Questions (LAQ)	2 x 10	20			
	(Any 2 out of 3)					
3.	Short Notes (8 out of 10)	8x5	40			
	a) b) c) d) e) f) g) h) i) j)					
	TOTAL					

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 has to be answered. Bitwise questions may be asked.
- 3. Short Notes: 10 questions will be given out of it, 8 have to be answered.



ANATOMY AND PHYSIOLOGY

Placement : First Year Theory - Anatomy: 60

Physiology: 60

Course Description – The course is designed to assist students to acquire the knowledge of the normal structure of human body systems & understand the alternation in anatomical structure and function in disease and practice of Nursing.

ANATOMY

Theory – 60 hours (Class 40+ lab 20 hours)

Unit	Time (Hrs.)	Objectives	Content	Teaching, Learning Activities	Assessment Methods
I	5	Describe the anatomical terms, organization of human body and structure of cell, tissues membranes and glands.	Introduction to anatomical terms organization of the human body • Human Cell structure • Tissues – definition, types, characteristics, location, function and formation. • Membranes and glands – classification and structure alterations in disease applications and implications in nursing.	 Lecture, Discussion Explain using charts, microscopic slides skeleton and torso. Demonstrate cell types of tissues membranes and glands. Record book 	 Short answer questions Objective type



II	6	Describe the structure and functions of bones and joints	 The Skeletal System bones –types, structure, axial and appendicular. Bone formation and growth description of bones Joints – Classification and structure Alteration in Disease Application and implication in nursing 	•	Lecture Discussion Explain using charts, Skeleton loose bones and joints Record book	•	Short answer questions, Objective type and
III	7	Describe the structure and functions of muscles	The Muscular System Types and structure of muscles Muscle groups alterations in disease application and implication in nursing.		Lecture Discussion Explain using charts, models, and films Demonstrate muscular movements Record book	•	Short answer questions Objective type and



		fuction of nervous system.	 Types and structure of muscles Structure of neurologia ad neurons Somatic nervous system Structure of brain, spinal cord, crania nerves, spinal nerves, peripheral nerves Autonomic nervous system-sympathetic, parasympathetic Structure, location Alterations in disease Applications and implications in 	 Explain using models, torso, charts, slides and specimens Record book. 	Objective Type
			Applications and implications in nursing		
V	6	Explain the structure and functions of sensory organs	 The Sense organs Structure of skin, eye, ear nose & tongue (auditory and olfactory apparatus) Alterations in disease Application and implications in 	 Lecture Discussion Explain using models, charts, slides and specimens Record book. 	Short Answer questionsObjective Type



VI	7	Describe the structure and function of circulatory and	Circulatory and lymphatic system • The circulatory system	Lecture Discussion Explain using models, charts,		Short Answer questions Objective Type
		lymphatic system	Blood- microscopic structure	slides and specimens Record book.		
			Structure of blood vessels- arterial and venous system			
			• Circulation: systemic, pulmonary, coronary			
			Lymphatic system			
			 Lymphatic vessels and lymph 			
			Lymphatic tissues			
			- Thymus gland			
			 Lymph nodes 			
			- Spleen			
			Lymphatic nodules			
			- Alterations in disease			
			- Application and implications in nursing			



VII	5	Describe the structure and functions of respiratory system.	 The respiratory system Structure of the organs of Respiration Muscles of respiration: intercostals and diaphragm Alterations in disease Application and implications in nursing 	Lecture Discussion Explain using models, torso, charts, slides and specimens Record book.	 Short Answer questions Objective Type
VIII	6	Describe the structure and function of digestive system.	 Structure of alimentary tract and accessory organs of digestion. Alterations in disease Application and implications in nursing 	 Lecture discussion Explain using models torso, charts, slides and specimens Record book 	Short Answer questionsObjective Type
IX	4	Describe the anatomical position, size, shape and structure of organs of urinary system Explain in continence and list the abnormalities of urinary system.	 The Excretory System (Urinary) Structure of organs of urinary. System: Kidney, ureters,urinary bladder, urethra, structure of skin Alterations in disease Application and implications in nursing 	 Lecture discussion Explain using models torso, charts, slides and specimens Record book 	 Short Answer questions Objective Type



X	4	Describe the structure and function of the endocrine system.	The Endocrine System • Structure of Pituitary, Pancreas, Thyroid Parathyroid, thymus and adrenal glands • Alterations in disease • Application and implications in nursing	 Lecture discussion Explain using models torso, charts, slides and specimens Record book 	 Short Answer questions Objective Type
XI	4	Describe the structure and function of the reproductive system.	The Reproductive system including breast • Structure of female reproductive organs • Structure of male reproductive organs • Structure of Breast • Alterations in disease • Application and implications in nursing	Lecture discussion Explain using models torso, charts, slides and specimens Record book	 Short Answer questions Objective Type

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- 2. Rohini Agarwal" Anatomy, Physiology & health Education" 2012
- 3. "Anatomy & Physiology for nurses", 16th ed. Jaypee.
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- 5. Tortora, (2003), "Principles of Anatomy & Physiology," 10th ed., Wiley inter.
- 6. Chaurasia, B.D. (2004), "Human Anatomy", 4th ed., CBS publishers.
- 7. Sembulingam, "Essentials of Medical Physiology," 3rd Edition 2004 J.P.Publications.
- 8. InduKhurana Textbook of Anatomy & Physiology for nurses 2nd Edition, 20018 CBS publication
- 9. Guyton and Hall, "Textbook of Medical Physiology," 9th Edition, A Prism2. Indian Edn. Pvt. Ltd.
- 10. T Clenister and Jean Rosy (1974). "Anatomy and Physiology for Nurses" 2nd Edition, William Hernmarni Medical BK. Ltd.



PHYSIOLOGY

Placement : First Year Theory - 60 hours (Class 50+ Lab 10 hours)

Unit	Time (Hrs.)	Objectives	Content	Teaching, Learning Activities	Assessment Methods
I	4	Describe the physiology of cell, tissues membranes and glands	 Cell Physiology Tissue - formation and repair. Membranes and glands functions Alteration in disease Application in nursing 	Lecture Discussion	Short answer questionsObjective type
II	4	Describe the bone formation and growth and movements of skeleton system	 Skeletal system Bone formation & growth Bones- functions and movements of bones of axial and appendicular skeleton, bone healing Joints and joint movement Alteration in disease Application in nursing 	 Lecture Discussion Explain using charts, models and films. Demonstration joint movements 	 Short answer questions Objective type
III	4	Describe the muscle movements and tone and demonstrate muscle contraction and tone.	Muscular System muscle movements, muscle tone, physiology of muscle contraction, levels and maintenance of posture Alteration in disease Application in nursing	 Lecture Discussion Explain using charts, models and films. Demonstration of muscle movements, tone and contraction 	Short answer questionsObjective type



IV	7	Describe the physiology of nerve stimulus, reflexes, brain, cranial and spinal nerves. Demonstrate reflex action and stimulus.	 Nervous System Functions of neurolgia and neurons Stimulus & nerve-impulse-definitions and mechanism. Functions of brain, spinal cord, and cranial and spinal nerves. Cerebrospinal fluid composition, circulation and function. Reflex arc, reflex action and reflexes Muscle tone and posture Autonomic functions Pain: somatic, visceral and referred Autonomic learning and bio feedback Alteration in disease 	 Lecture Discussion Explain using charts, models, slides, specimen and films. Demonstration Nerve stimulus, reflex action, reflexes 	 Short answer questions Objective type
			disease • Application in nursing		



V	8	Describe the physiology of blood and function of heart. Demonstrate blood cell count, coagulation, grouping, Hb: BP and pulse monitoring	Circulatory System blood formation, composition, blood groups, blood coagulation Hemoglobin: structure synthesis and breakdown, variation of molecules, estimation Functions of heart, conduction, cardiac cycle, circulation Principles, control, factors influencing B.P and pulse Alterations in disease Application in nursing	 Lecture Discussion Explain using charts, films. Demonstration of blood cell count, coagulation, grouping, haemoglobin estimation, heart conduction system. Measurement of pulse, BP 	Short answer questions Objective type
VI	6	Describe the Physiology and Mechanism of Respiration Demonstrate Spirometry.	The Respiratory System • Functions of Respiratory organs. • Physiology of Respiration. • Pulmonary ventilation, Volume • Mechanics of respiration. • Gaseous exchange in lungs. • Carriage of Oxygen and carbon dioxide. • Exchange of gases in tissues. • Regulation of respiration. • Alterations in disease. • Application in nursing	Lecture discussion Explain using charts and films Demonstration in spirometry.	Short answer questions Objective type



VII	5	Describe Physiology of Digestive system. Demonstrates BMR.	 The Digestive System Functions of organs of digestive tract. Movements of alimentary tract, Digestion in Mouth, stomach, small intestine, large intestine, Absorption of food, Functions of liver, Gall bladder & pancreas. Metabolism of carbohydrates protein, and fat 	Lecture Discussion Explain using charts and films	Short answer questions Objective type
VIII	5	Describe Physiology of Excretory system	The Excretory System. Functions of kidneys, ureters, urinary bladder and urethra. Composition of urine. Mechanism of Urine formation. Structure & Functions of skin. Regulation of body temperature. Fluid and electrolyte balance. Alterations in disease. Application in nursing	Lecture Discussion Explain using charts and films	 Short answer questions Objective type
IX	4	Describe the Physiology of sensory organs.	 The Sensory Organs Functions of skin, eye, ear, nose & tongue. Alterations in disease. Application in nursing 	LectureDiscussionExplain using charts and films	Short answer questionsObjective type



X	5	Describe the physiology of Endocrine Glands.	The Endocrine System. • Functions of pituitary, pineal body, thymus, thyroid, • Parathyroid, Pancreas, Suprarenal, placenta and overies and testes. • Alterations in disease. • Application in nursing	 Lecture Discussion Explain using charts and films. Demonstration of BMR 	 Short answer questions Objective type
XI	5	Describe the Physiology of Male & Female Reproductive System.	The Reproductive System Reproduction of cells-DNA, Mitosis, Meosis, Spermatogenesis Oogenesis. Function of Female Reproductive Organ, Function of Breast, Placenta, Ovaries. Female sexual cycle. Introduction to Embryology. Functions of the Male Reproductive Organs, Male function in reproduction, Male fertility system. Alterations in disease. Application in nursing	Lecture discussion Explain using Charts, films, models, specimens.	 Short answer questions Objective type .



XII	2	Describe the physiology of lymphatic and immunological system	Lymphatic and immunological system • Circulation of lymph Immunity • Formation of T-cells and B-cells - Types of immune response - Antiges - Cytokines antibodies	Lecture discussion Explain using Charts, films.	Short answer questionsObjective type.
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REFERENCES

- 1. Waugh, Anne (2003), "Ross& Wilson's Anatomy & Physiology in health & illness" 10thed. Churchill Livingstone.
- 2. Rohini Agarwal" Anatomy, Physiology & health Education" 2012
- 3. "Anatomy & Physiology for nurses", 16th ed. Jaypee.
- 4. Singh, I. B. (2005), "Anatomy & Physiology for nurses", 1st ed., Jaypee.
- 5. Tortora, (2003), "Principles of Anatomy & Physiology," 10th ed., Wiley inter.
- 6. Chaurasia, B.D. (2004), "Human Anatomy", 4th ed., CBS publishers.
- 7. Sembulingam, "Essentials of Medical Physiology," 3rd Edition 2004 J.P.Publications.
- 8. InduKhurana Textbook of Anatomy & Physiology for nurses 2nd Edition, 20018 CBS publication
- 9. Guyton and Hall, "Textbook of Medical Physiology," 9th Edition, A Prism2. Indian Edn. Pvt. Ltd.
- 10. T Clenister and Jean Rosy (1974). "Anatomy and Physiology for Nurses" 2nd Edition, William Hernmarni Medical BK. Ltd.



DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT ANATOMY AND PHYSIOLOGY

Question No	Question description	Division of Marks	Total Marks		
1	Total MCQ's 15				
	I . Anatomy 1-7	7 X 1=7	15		
	II. Physiology 8-15	8 X 1=8			
	SECTION - A (ANATOMY- 30 marks)				
2	Long Answer Questions	1 x 10	10		
	(any 1 out of 2)				
3	Short Notes (Any 4 out of 6)	4 x 5	20		
	a) b) c) d) e) f)				
	SECTION – B (PHYSIOLOGY- 30 marks)				
4	Long Answer Questions	1 x 10	10		
	(any 1 out of 2)				
5	Short Notes (Any 4 out of 6)	4 x 5	20		
	a) b) c) d) e) f)				
	TOTAL				

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 2 questions will be given out of it,1 has to be answered.
- 3. Short Notes: 5 questions will be given out of it 4 have to be answered.



NUTRITION & BIOCHEMISTRY

NUTRITION

Placement : First Year

Theory 60-hours
(Class 45 + lab 15)

Course Description: The Course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and understand the alterations in biochemistry in diseases for practice of nursing.

Unit	Time (Hrs)	Objectives	Content	Teaching Learning Activities	Assessment methods
I	T=4	Describe the relationship between nutrition & Health.	 Introduction Nutrition: History Concepts Role of nutrition in maintaining health Nutritional problems in India National nutritional policy Factors affecting food & nutrition: socio-economic, cultural, tradition, production, system of distribution, life style & food habits etc Role of food & its medicinal value Classification of foods Food standards Elements of nutrition: macro and micro Calorie, BMR 	 Lecture Discussion Explaining using charts Panel Discussion 	Short answers Objective type



II	T=2	Describe the classification, functions, sources and recommended daily allowances (RDA) of carbohydrate	Carbohydrates Classification Caloric value Recommended daily allowances Dietary sources. Functions Digestion, absorption and storage, metabolism of carbohydrates Malnutrition: Deficiencies and Over consumption	Lecture Discussion Explaining using charts	Short answers Objective type
III	T=2	• Describe the classification, functions, sources and recommended daily allowances (RDA) of Fats.	FATS Classification Caloric value Recommended daily allowances Dietary sources. Functions Digestion, absorption and storage, metabolism Malnutrition: Deficiencies and Over consumption	LectureDiscussionExplaining using charts	Short answers Objective type
IV	T=2	Describe the classification, functions, sources and recommended daily allowances (RDA) Of Proteins.	Proteins Classification Caloric value Recommended daily allowances Dietary sources. Functions Digestion, absorption and storage, metabolism of carbohydrates Malnutrition: Deficiencies and Over consumption	 Lecture Discussion Explaining using charts 	Short answers Objective type



	1	I	1	T	ı
V	T=3	Describe the classification, functions, sources and recommended daily allowance (RDA) of Energy.	 Energy Unit of Energy Kcal Energy requirements of different categories of people. Measurements of energy Body Mass Index (BMI) and basic metabolism Basal Metabolic Rate (BMR) - determination and factors affecting 	 Lecture Discussion Explaining using charts Exercise Demonstration 	Short answers Objective type
VI	T=4	Describe the classification, functions, sources and recommended daily allowances (RDA) of Vitamins.	Vitamins Classification Recommended daily allowances Dietary sources. Functions Absorption, synthesis, metabolism storage & excretion Deficiencies Hypervitaminosis	LectureDiscussionExplaining using charts	Short answers Objective type



VII	T=4	Describe the classification, functions, sources and recommended daily allowances (RDA) of Minerals.	 Minerals Classification Recommended daily allowances Dietary sources. Functions Absorption, synthesis, metabolism storage & excretion 	LectureDiscussionExplaining using charts	Short answersObjective type
			 Deficiencies Over consumption and toxicity		
VIII	T=3	Describe the sources, functions and requirements of water & electrolytes	 Water & electrolytes Water: Daily requirements, regulation of water metabolism, distribution of body water, Electrolytes: Types, sources, composition of body fluids. Maintenance of fluid & electrolyte balance Over hydration, dehydration and water intoxication Electrolyte imbalances 	Lecture Discussion Explaining using charts	Short answers Objective type



IX	20 T=5 P=15	Describe the Cookery rules and preservation of nutrients Prepare & serve simple beverages & different types of foods	Cookery rules and preservation of nutrients • Principles, methods of cooking and serving Preservation of nutrients Safe food handling – toxicity • Storage of food • Food preservation, food additives and its principles Prevention of food adulteration • Act(PFA) Food standards Preparation of simple beverage and different types of food.	 Lecture Discussion Demonstration Practice session 	Short answers Objective type Assessment of practice sessions
X	12 T=7 P=5	Describe and plan balanced diet for different categories of people	 Balance diet Elements Food groups Recommended Daily Allowance Nutritive value of foods Calculation of balanced diet for different categories of people Planning menu Budgeting of food Introduction to therapeutic diets: Naturopathy-Diet 	 Practice session Meal planning 	Exercise on menu planning



	Г	ı		T	•			
XI	T=4	Describe various national	Role of nurse in nutritional Programmes	☐ Lecture ☐ Discussion	 Short answers Objective type			
		program mes related to nutrition	National programmes related to nutrition	☐ Explaining with Slide/film shows				
		Describe the role of nurse in assessment of nutritional	Vitamin A deficiency programme					
		status & nutrition education	status & nutrition	nutrition	nutrition	nutrition deficiency		
			Mid-Day meal programme Integrated child development scheme (ICDS) National and International agencies working towards food/nutrition					
			• NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology & research institute) etc.					
			Assessment of nutritional status Nutrition education and role of nurse					

REFERENCES

- 1. Shubhangi Joshi, *Nutrition and Dietetics* 2nd edition, Tata McGraw Hill publishing company Limited, New Delhi, 2002.
- 2. Dr. M. Swaminathan, *Handbook of Food and Nutrition*, TheBanglore printing and publishing Co. Ltd. (Banglore press) 2004.
- 3. C. Gopalan, B. V. Ramasastri and S.C. Balasubramanian *Nutritive value of Indian Foods*, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad 1999.
- 4. "Basic of clinical Nutrition" Y K Joshi 2003
- 5. Kusum Gupta (L. C.Guple, Abhishek Gupta) *Food and Nutrition Facts and Figures*, 5th edition Jaypee brothers Medical publications (P) Ltd., New Delhi, India 2003.
- 6. T. K. Indrani, *Nursing Manual of Nutrition and Therapeutic Diet*, 1st edition Jaypee Brothers medical publishers (P) Ltd., 2003.
- 7. "Food & nutrition facts & figures L.C. Gupta 6th Ed
- 8. Elements of Nutrition Darshan Sohi PV publication.



BIOCHEMISTRY

Placement: First Year Theory – 30 hrs.

Course Description: The Course is designed to assist the students to acquire knowledge of the normal biochemical composition and functioning of human body and understand the alterations biochemistry in diseases for practice of nursing.

Unit	Time (Hrs)	Objectives	Content	Teaching Learning Activities	Assessment methods
I	3	 Describe the structure Composition and functions of cell Differentiate between Prokaryote and Eukaryote cell Identify techniques of Microscopy 	 Introduction Definition and significance in nursing. Review of structure, Composition and functions of cell. Prokaryote and Eukaryote cell organization Microscopy 	Lecture discussion using charts, slides Demonstrate use of microscope	Short answer questionsObjective type.
П	6	Describe the Structure and functions of Cell membrane	Structure and functions of Cell membrane • Fluid mosaic model tight junction, Cytoskeleton • Transport mechanism: diffusion, osmosis, filtration, active channel, sodium pump. • Acid base balance - maintenance & diagnostic tests. • PH buffers	• Lecture Discussion	Short answer questionsObjective type.



III	6	Explain the metabolism of carbohydrates	Composition and metabolism of carbohydrates Types, structures, composition and uses	Lecture discussion Demonstration of blood glucose monitoring	Short answer questionsObjective type.
			Monosaccharides		
			Disaccharides,		
			Polysaccharides		
			Oligosaccharides		
			Metabolism pathways of glucose: Glycolysis Gluconeogenesis : cori's cycle, tricroboxylic cycle Glycogenolysis Pentose phosphate pathways (hexose mono phosphate) Regulation of blood glucose level		
			• Investigations and their interpretations		



IV	4	Explain the metabolism of lipids	Composition and metabolism of lipids: Types, structure, composition and uses of fatty acids. Nomenclature, roles and	 Lecture Discussion using charts Demonstration of laboratory tests 	Short answer questionsObjective type.
			prostaglandins. • Metabolism of fatty acids		
			○ Break down		
			o Synthesis		
			Metabolism of triacylglycerols		
			Cholesterol metabolism		
			Biosynthesis and its regulation		
			- Bile salts and bilirubin		
			– Vitamin D		
			– Steroid hormones		
			• Lipoproteins and their functions :		
			○ VLDL s – IDL s, LDL s and HDL s		
			o Transport of lipids		
			o Atherosclerosis,		
			• Investigation and their interpretations.		



V	6	Explain the metabolism of amino acids and proteins	Composition and metabolism of amino acids and proteins: Types, structure, composition and uses of amino acids and proteins. Metabolism of amino acids and proteins Protein synthesis, targeting and glycosylation Chromatography Electrophoresis Sequencing Metabolism of Nitrogen Fixation and Assimilation Urea Cycle Hemes and chlorophylls Enzymes and coenzymes Classification Properties Kinetics and inhibition Control Investigations and their interpretations.	Lecture Discussion using charts Demonstration of laboratory tests	Short answer questions Objective type
VI	2	Describe types, composition and utilization of Vitamins & minerals	Composition of Vitamins and minerals Vitamins and minerals: Structure Classification Properties Absorption Storage & transportation Normal concentration Investigations and their interpretations	Lecture Discussion using charts Demonstration of laboratory tests	 Short answer questions Objective type



VII	3	Describe Immuno chemistry	 Immunochemistry Immune response, Structure and classification of immunoglobins Mechanism of antibody production. Antigens: HLA typing. Free radical and Antoxidants. Specialised Protein: Collagen, Elastin, Keratin, Myosin, Lens Protein. Electrophoretic and Quantitative determination of immunoglobins - 	Lecture discussion Demonstration Laboratory tests	 Short answer questions Objective type
			immunoglobins - ELISA etc. Investigation and their interpretations.		

REFERENCES:

- 1. U. Satyanarayan, Essentials of biochemistry, Books & allied (P) Ltd., Kolkata publisher,
- 2. Textbook of biochemistry (S.S Randhawah 6thedition,
- 3. Biochemistry for BSc Nursing students HarbansLal 3rdedition
- 4. Jacob Anthikad, Biochemistry for nurses; 2nd edition, Jaypee; 2001..
- 5. Gupta. R.C., Multiple choice questions in Biochemistry, 2nd edition, Jaypee, 2004



DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT NUTRITION AND BIOCHEMISTRY

Question No	Question description	Division of marks	Total marks
1	Total MCQ's 15		
	Nutrition 1-10	10 x 1=10	15
	Biochemistry 11-15	5 x 1=5	
	SECTION - A NUTRITION (3	55 marks)	
2	Long Answer Questions (LAQ's)	1 x 10	10
	(any 1 out of 2)		
3	Short Notes (Any 5 out 7)	5 x 5	25
	a) b) c) d) e) f) g)		
	SECTION – B (BIOCHEMISTRY	/- 25 marks)	
4	Long Answer Questions (LAQ's)	1 x 10	10
	(any 1 out of 2)		
5	Short Notes (Any 3 out 5)	3 x 5	15
	a) b) c) d) e)		
	TOTAL		75

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- **2.** Long Answer Questions: questions will be given out of which, 1 has to be answered in Nutrition & Biochemistry separately.
- **3.** Short Notes: 7 questions will be given out of which, 5 have to be answered in Nutrition & for Biochemistry, 5 questions will be given out of which, 3 has to be answered.



NURSING FOUNDATIONS

Placement: First Year Theory: 265 Hrs.

Practical - 650 hrs

(200 lab and 450 Clinical)

Course Description : This course is designed to help the students to develop an understanding of the philosophy, objectives, theories and process of nursing in various supervised clinical settings. It is aimed at helping the students to acquire the knowledge, understanding and skills in techniques of nursing and practice them in supervised clinical setting.

Unit	Time (Hrs)	Objectives	Content	Teaching Learning Activities	Assessment methods
I	10	Describe the concept of health, illness and health care agencies	Introduction Concept of Health: Health illness continuum Factors influencing health Causes and risk factors for Developing illness. Body defenses: Immunity and immunization Illness and illness Behavior Impact of illness on patient and family Health care services: Health Promotion and Prevention, Primary care, Diagnosis, Treatment, Rehabilitation and Continuing care Health care teams Types of health care agencies: Hospitals: Types, Organization and Functions Heath Promotion and Functions Heath Promotion and levels of disease Prevention Primary health care and its delivery: role of Nurse	Lecture Discussion Visit to health care agencies	Essay type Short answers Objective type



II	16	• Explain concept and	Nursing as a profession	• Lecture	• Essay type
		scope of	• Definition and	Discussion	Short answers
		nursing • Describe	Characteristics of a profession	Case discussionRole plays	Objective type
		values, code of ethics and professional	• Nursing :- o Definition,	1 5	
		conduct for nurses in India	Concepts, philosophy, objectives		
			o Characteristics, nature and scope of nursing practice		
			o Functions of nurse		
			Qualities of a nurse		
			o Categories of nursing personnel		
			Nursing as a profession		
			History of Nursing in India		
			Values : Definition, Types, Values Clarification and values in professional Nursing : Caring and Advocacy		
			• Ethics :		
			Definition and Ethical Principal		
			 Code of ethics and professional conduct for nurses. 		



III	4	Explain the admission and discharge procedure Performs admission and discharge procedure	Hospital admission and discharge Admission to the hospital Unit and its preparation admission bed Admission bed Admission procedure Special considerations Medico-legal issues Roles and Responsibilities of the nurse Discharge from the hospital Types: Planned discharge, LAMA and abscond, Referrals and transfers Discharge Planning Discharge procedure Special considerations	Lecture Discussion Demonstration Lab Practice Supervise clinical practice	Short answers Objective type Assess skills with check list Clinical practical examination.
			Planning O Discharge procedure O Special		
			Medico-legal issues		
			o Roles and Responsibilities of the nurse		
			 Care of the unit after discharge 		



	1	I			
IV	10	Communicate effectively with patient, families and team members and maintain effective human relations (professional image) Appreciate the importance of patient teaching in nursing	Communication and Nurse patient relationship Communication: Levels, Elements, Types, Modes, Process, Factors influencing Communication Methods of effective Communication Attending skills Rapport building skills Empathy skills Barriers to effective communication Helping Relationships (NPR): Dimensions of? Helping Relationships, Phases of a helping relationship Communication effectively with patient, families and team members and maintain effective human relations with special reference to communication with vulnerable group (children, women physically and mentally challenged and elderly) Patient Teaching: Importance, Purposes, Process, role of nurse and Integrating teaching in Nursing process	Lecture discussion Role play and video film on the nurses interacting with the patient Practice session on patient teaching Supervised Clinical practice	Short answers Objective type



W 7	1.5	Б 1 1 4	TU NI · B	Т ,	г ,
V	15	• Explain the concept,	The Nursing ProcessCritical Thinking and	• Lecture	• Essay type
		uses, format	Nursing Judgment	• Discussion	Short answers
		and steps	O Critical Thinking: Thinking and	• Demonstra-tion	Objective type
		of nursing	Learning.	• Exercise	
		process	 Competencies , 	• Supervise	
		• Documents	Attitudes for critical Thinking, Levels of	clinical practice	
		nursing process as per	critical thinking in		
		the format	Nursing		
			Nursing Process Overview:		
			Application in		
			Practice		
			Nursing process format : INC current		
			format		
			 Assessment Collection of Date:		
			• Types, Sources,		
			Methods Farmentation Name in a		
			- Formulating Nursing judgment : Data		
			interpretation		
			Nursing diagnosisIdentification of		
			client problems		
			 Nursing diagnosis 		
			statement – Difference between		
			medical and nursing		
			diagnosis		
			O Planning - Establishing		
			Priorities		
			- Establishing Goals		
			and Expected Outcomes, Selection		
			of interventions		
			: Protocols and standing Orders		
			Writing the Nursing		
			Care Plan		
			ImplementationImplementing the		
			plan of care		
			 Evaluation Outcome 		
			of care Review and Modify		
			 Documentation and 		
			Reporting		



VI	4	Describe the purposes, types and techniques of recording and reporting	Documentation and Reporting • Documentation : Purpose of Recording and	LectureDiscussionDemonstrationPractice Session	Essay typeShort answersObjective type
		Toporting	reportingCommunication within the Health Care Team,	Supervised clinical practice	
			Types of records; ward records, medical/nursing records,		
			Common Record- keeping forms, Computerized documentation		
			Guidelines for Reporting: Factual basis, Accuracy, completeness, Organization, confidentiality		
			Methods of recording		
			• Reporting: Change – of shift reports, Incident reports		
			Minimizing legal Liability through effective record keeping		



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VII	15	Describe principles and techniques of monitoring and maintaining vital signs Monitor and maintain vital signs	Vital signs	Lecture discussion Demonstration Practice Session Supervised clinical practice	Short answers Objective type Assess with check list Clinical practical examination



VIII	30	Describe purpose and process of health assessment Describe the health assessment of each body system Perform health assessment of each body system	Health assessment Purposes Process of Health assessment Health history Physical examination: Methods - Inspection, palpation, Percussion, Ausculatation, Olfaction Preparation for examination: Patient and unit General assessment Assessment of each body system Recording of health assessment	 Lecture Discussion Demonstration Practice Session Supervised Clinical practice 	 Essay type Short answers Objective type
IX	5	Identifies the various machinery equipment and linen and their care	Machinery, Equipment and linen • Types: Disposables and • Re-usables-Linen, rubber goods, glass ware, metal, plastics, furniture, machinery • Introduction: • Indent • Maintenance • Inventory	Lecture Discussion Demonstration	Essay typeShort answersObjective type





o Comfort:
- Factors
- Influencing Comfort
- Comfort devices
Physiological needs:
○ Sleep and Rest :
- Physiology of sleep
Factors affecting sleep
- Promoting Rest and sleep
- Sleep Disorders
○ Nutrition :
- Importance
Factors affecting nutritional needs
Assessment of nutritional needs:Variables
 Meeting Nutritional needs: Principals, equipment procedure and special considerations
Oral
Enteral: Naso/ Oro-gastric, gastrostomy
Parenteral



O Urinary Elimination
- Review of Physiology of Urine Elimination, Composition and characteristics of urine
- Factors Influencing Urination
- Alteration in Urinary Elimination
- Types and Collection of urine specimen: Observation, urine testing
- Facilitation urine elimination: assessment, types, equipments, procedures and special considerations
Providing urinal/ bed pan
Condom drainage
Perineal care
Catheterization
Care of urinary diversios
Bladder irrigation



• Bowel
Elimination
- Review of
Physiology of
- Bowel elimination
, composition and
characteristics of
faces
- Factors affecting
Bowel elimination
- Alteration in
Bowel elimination
- Type and
Collection of
specimen of
faces:Observation
- Facilitation bowel
elimination:
assessment,
equipments
procedures
and special
considerations
Passing of Flatus
tube
Enemas
Suppository
Sitz bath
Bowel wash
Care of ostomies
Mobility and
Immobility
- Principles of Body
Mechanics
- Maintenance
of normal body
Alignment and
mobility
- Factors affecting
body Alignment
and mobility
- Hazards associated
with immobility
- Alteration in body
Alignment and
Mobility



- Nursing interventions for impaired Body Alignment and Mobility: Assessment, types, devices used method and special considerations. Rehabilitation aspects	
Range of motion exercises	
Maintaining body alignment : Positions	
Moving	
Lifting	
Transferring	
Walking	
Restraints	
○ Oxygenation	
Review of Cardiovascular and respiratory	



	- Physiology	
	 Factors Affecting 	
	 Oxygenation 	
	• Alteration in	
	 oxygenation 	
	- Nursing	
	• Intervention in oxygenation: assessment, types,	
	• equipment used,	
	 procedure and special considerations 	
	Maintenance of patent airway	
	Oxygen administration	
	Suction	
	Inhalations : Dry and moist	
	Chest Physiotherapy and postural drainage	
	Care of chest drainage	
	Pulse oximetry	
	CPR-Basic life support	
	Fluid, Electrolyte, and Acid Base Balances	



- Review of Physiological Regulation of Fluid, electrolyte, and Acid Base Balance	
 Factors Affecting Fluid Electrolyte, and Acid Base Balance 	
Alteration in Fluid,Electrolyte andAcid	
Nursing intervention in Fluid, Electrolyte and Acid	
- Base Imbalances : assessment, procedure and special considerations	
Measuring fluid intake and output	
Correcting Fluid Electrolyte imbalance:	
- Replacement of fluids oral and parenteral venipuncture regulating IV flow rates, changing IV solution and tubing changing IV dressing.	
Administering blood transfusion	
- Restriction of fluids	



Psychosocial
Needs
 Concepts of Cultural Diversity, Stress and adaptation, Self- Health, Coping with loss, death & grieving
Assessment of psychosocial needs
 Nursing intervention for Psychosocial needs
Assist with coping and adaptation
- creating therapeutic environment
 Recreational and diversional therapies



XI	20	Describe	Infection control in	• Lecture	• Essay type			
111		principles and	Clinical setting	• Discussion	• Short answers			
		techniques for infection control	techniques for infection control			• Infection control	Demonstration	Objective type
		and biomedical	 Nature of infection 	Practice session	• Assess with			
		waste management in supervised	 Chain of infection transmission 	• Supervised Clinical practice	check list and clinical practical			
		Clinical setting	 Defenses against infection : natural and acquired 		examination			
			 Hospital acquired infection (Nosocomial infection) 					
			 Concept of asepsis: medical asepsis and surgical asepsis 					
			• Isolation precautions (Barrier nursing)					
			 Hand washing: simple, hand antisepsis and surgical antisepsis (scrub) 					
			 Isolation: source and protective 					
			 Personal protecting equipments: types, uses and technique of wearing and removing 					
			 Decontamination of equipment and unit 					



Transportation of infected patients
 Standard safety precautions (Universal precautions)
 Transmission based precautions
Standard safety precaution (universal precaution)
 Transmission based precautions
Biomedical waste management
○ Importance
Types of hospital waste
Hazards associated with hospital waste
Decontamination of hospital waste
 Segregation and transportation and disposal



		I	Γ	I	
XII	40	Explain the principles, routes, effects of administration of medications Calculate conversions of drugs and dosages within and between systems of measurements Administer drugs by the following routs oral, inhalation	Administration of Medications • General Principles/ Consideration ○ Purposes of Medication ○ Principles: 5 rights, Special considerations, Prescription Safety in administering Medications and Medication errors ○ Drug forms ○ Routes of administration ○ Storage and maintenance of drugs and Nurses responsibility ○ Broad classification of drugs ○ Therapeutic Effect, Side Effects, Toxic effects Idiosyncratic Reactions, Drug Tolerance, Drug Interactions,	 Lecture Discussion Demonstration Practice session Supervised Clinical practice 	Short answers Objective type Assess with check list and clinical practical examination



 , 	
o Factors Influencing drug Actions,	
 Systems of Drug Measurement : Metric system, Apothecary system, Household Measurements, Solutions. 	
 Converting Measurements Units: conversion within one system, conversion between systems, Dosage Calculation. 	
 Terminologies and abbreviations used in prescriptions of medication 	
• Oral Drugs Administration: Oral , sublingual and Buccal : Equipment, procedure	
Parenteral	
• Topical Administration : Purposes, site equipment procedure special considerations for	
Application to Skin	



	 Application to mucous membrane 	
	 Direct application of liquids – Gargle and swabbing the throat 	
	 Insertion of Drug into body cavity: Suppository / medicated packing in rectum / vagina 	
	- Instillation: ear, eye, nasal, bladder, and rectal	
	 Irrigation: Eye, Ear, bladder, and rectal. 	
	Spraying: nose and throat	
	- Inhalation : Nasal, oral, endotracheal / tracheal (steam oxygen and medications) purposes, types, equipment procedure, special considerations	
	 Recording and reporting of medications administered 	



		ı	Γ	ı	,
XIII	10	Describe the pre and post operative care of patients Explain the process of wound healing Explain the principles and techniques of wound care Perform care of wounds	Meeting needs of perioperative patients Definition and concept of perioperative nursing Preoperative phase Preparation of patient for surgery Intraoperative Operation theatre setup and environment Role of nurse Postoperative phase Recovery Unit Post operative unit Postoperative care Wounds: types, classification, wound healing process, factors affecting wound, complications of wound healing Surgical asepsis Care of wound: types, equipments, procedure and special considerations	Lecture Discussion Demonstration Practice section Supervised clinical practice	Short answers Objective type Assess with check list and clinical practical examination
			process, factors affecting wound, complications of wound healing • Surgical asepsis • Care of wound: types, equipments, procedure		



XIV	15	• Explain care of patients	Meeting special needs of the patient	• Lecture	• Essay type
		having alterations in body functioning	Care of patients having alteration in Temperature (hyper and hypothermia)	DiscussionCase discussionsSupervise clinical practice	Short answersObjective
			Types, Assessment, Management o Sensorium		
			• (Unconsciousness) : assessment, Management		
			 Urinary Elimination (retention and unconsciousness) Assessment , Management 		
			 Functioning of sensory organs: (visual & hearing impairment) 		
			o assessment of self- Care ability		



	o communication Methods and special considerations	
	Mobility (physical challenged, cast assessment of self-care ability:	
	Communication Methods and special considerations	
	Mental state (mentally challenged) ,Assessment of Self-Care ability;	
	Communication Methods and special considerations	
	Respiration (distress); Types, Assessment, Management	
	Comfort-(pain)- Nature, Types, Factors influencing pain, coping ,Assessment; Management	
	• Treatment related to gastrointestinal system, nasogastric suction, gastric irritation, gastric analysis.	



XV	5	Explain care	• Care of	Lecture	• Essay type
74. V		of terminally	Terminally ill	• Discussion	• Short Answers
		ill patient	patient		
			Concepts of Loss, Grief grieving process	DemonstrationsCase discussion / Role play	Objective type
			o Signs of clinical death	 Practice session Supervised	
			Care of dying patient; special considerations	Clinical practice	
			- Advance directives: Euthanasia, will, dying, declaration, organ donation etc.		
			o Medico-legal issues		
			o Care of dead body:		
			Equipment, procedure and care of unit Autopsy Embalming		
XVI	6	• Explain the basic concepts of conceptual	Professional Nursing concepts and practices	Lecture Discussion	• Essay type • Short Answers
		and theoretical models of nursing	Conceptual and theoretical models of nursing practice:		
			Introduction to models - holistic model, health belief model, health promotion model etc.		
			Introduction to Theories in Nursing; Peplau's, Henderson's, Orem's, Neumann's Roger's and Roy's Linking theories with nursing process		



NURSING FOUNDATIONS- PRACTICAL

Placement : First Year Practical 650 hours (200 lab and 450 clinical)

Course Description: This course is designed to help he students to develop an understanding of the philosophy, objectives, theories and process of nursing in various clinical settings. It is aimed at helping the students to acquire knowledge, understanding and skills in techniques of nursing and practice them in clinical settings.

Areas	Time (Hrs)	Objective	Skills	Assignments	Assessment Methods
Demonstration lab general medical and surgery ward	200 lab hours & 450 Minimum clinical practice	Perform admission and discharge procedure Prepares nursing care plan as per the nursing process format Communicate effective with patient, families and team members and Maintain effective human relations Develops plan for patient teaching Prepare patient reports presents report Monitor vital signs Perform health assessment of each body system provide basic nursing care to patients Perform infection control procedures Administer drugs Provider care to dying and dead Counsel and support relatives	Hospital admission and discharge (III) Admission Prepare unit for new patient Prepare admission bed Performs admission Procedure New patient Transfer in Prepare patient records Discharge / Transfer out: Gives discharge counseling Perform discharge procedure (planned discharge, LAMA and abscond, Referrals and transfers) Prepare records of discharge / transfer. Dismantle, and disinfect unit and equipment after discharge / Transfer. History taking, Nursing diagnosis, Problem list, Prioritization, Goals & Expected Outcomes, Selection of interventions. Write Nursing care plan Given care as per the plan Communication: Use verbal non verbal communication techniques	Practice in unit / hospital Write nursing process records of patient Simulated- 1 Actual- 1 Role-plays Simulated situations on communication techniques- 1 Health talk- 1 Write nurses notes and present the patient report of 2-3 assigned patient Lab practice Measure vital signs of assigned patient Practice in lab and hospital Simulated exercise on CPR manikin	Evaluate with checklist Assessment of clinical performance with rating scale Completion of practice record Assessment of nursing process records with checklist Assessment of actual care given with rating scale Assess role plays with the checklist on communication techniques Assess health talk with the checklist Assessment of communication techniques by rating scale Assessment of performance with rating scale Assessment of each skill with checklist Completion of activity record Assessment of each skill with rating scale Completion of activity record



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	Prepare a plan patient teaching session Write patient report: • Change-of shift reports, Transfer reports, incidents reports etc. • Presents patient report Vital signs: • Measure, Records and interpret alterations in body temperature, pulse respiration and blood pressure. Health assessment: • Health History taking • Perform assessment: » General » Body Systems • Use various methods of physical examination • Inspection, Palpation, Percussion, Auscultation, Olfaction. • Identification of system wise	Observation study- 2 Department of infection control and CSSD Visits CSSD write observation reports-1 Collection of samples for culture Do clinical posting in infection control department and write report Practice in lab/ ward	Assess observation study with checklist Evaluate all procedure with checklist
	deviations.		
	Prepare patient's unit :		
	 Prepare beds: Open, Closed, Occupied, Operation, amputation. Cardiac, fracture, burn, Divided & Fowlers bed. Pain assessment and provision for comfort. 		
	Use comfort devices		
	Hygienic care :		
	 Oral hygienic Baths and care of pressure paints. Hair wash, pediculosis treatment. 		



Feeding:	
Oral, Enteral,	
Naso / Orogastric,	
gastrostomy and	
Parenteral feeding.	
Naso-gastric insertion,	
suction, and irrigation.	
Assisting patient in	
urinary climination :	
Provides urinal / bed	
pan	
Condom drainage	
Perineal care	
• Catheterization	
Care of urinary drainage	
Bladder irrigation	
Assisting bowel Elimination :	
• Insertion of flatus tube.	
EnemasInsertion of suppository.	
I Rowal wash Rody	
Bowel wash, Body	
Alignment and Mobility:	
Alignment and Mobility: • Range of motion	
Alignment and Mobility: Range of motion exercises	
 Alignment and Mobility: Range of motion exercises Positioning: - 	
 Alignment and Mobility: Range of motion exercises Positioning: - Recumbent, Lateral 	
 Alignment and Mobility: Range of motion exercises Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, 	
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Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon.	
Alignment and Mobility: Range of motion exercises Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. Assist patient in moving lifting, transferring walking.	
Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting,	
Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting, transferring walking. • Restraints. Oxygen administration:	
Alignment and Mobility: Range of motion exercises Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. Assist patient in moving lifting, transferring walking. Restraints.	
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Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting, transferring walking. • Restraints. Oxygen administration: - Suctioning: Oropharyangeal,	
Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting, transferring walking. • Restraints. Oxygen administration: - Suctioning: Oropharyangeal, nasopharyngeal: -	
Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting, transferring walking. • Restraints. Oxygen administration: - Suctioning: Oropharyangeal, nasopharyngeal: - Chest Physiotherapy	
Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting, transferring walking. • Restraints. Oxygen administration: - Suctioning: Oropharyangeal, nasopharyngeal: - Chest Physiotherapy and postural drainage:	
Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting, transferring walking. • Restraints. Oxygen administration: - Suctioning: Oropharyangeal, nasopharyngeal: - Chest Physiotherapy and postural drainage: CPR – Basic life	
Alignment and Mobility: • Range of motion exercises • Positioning: - Recumbent, Lateral (rt / lt) fowlers, Sims, Lithotomy, Prone, Tendelenburg positon. • Assist patient in moving lifting, transferring walking. • Restraints. Oxygen administration: - Suctioning: Oropharyangeal, nasopharyngeal: - Chest Physiotherapy and postural drainage:	
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Blood and blood component therapy: Collect / assist for collection of specimens for investigations urine, sputum, faces, vomitus, blood and other body fluids: Perform lab tests: - Urine: - Sugar, albumin, acetone Blood: - Sugar (with strip/ gluco-meter) Hot and cold application: local and general Size bath Communicating and assisting with self-care of visually & hearing impaired patients. Communicating and assisting with self-care of mentally challenged / disturbed patient. Recreational and divertional therapies. Caring of patient with alteration in sensorium. Infection control: - Perform following Procedures: - Hand washing techniques Simple, hand antisepsis and surgical	
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Procedures: - » Hand washing techniques » Simple, hand antisepsis and surgical	
 Hand washing techniques Simple, hand antisepsis and surgical 	
techniques » Simple, hand antisepsis and surgical	
antisepsis and surgical	
antisepsis (scrub). » Prepare isolation unit	
in lab / ward.	
» Practice technique of	
wearing and removing	
Personal protective	
equipment (PPE). » Practice Standard	
safety Precautions	
(Universal Precautions)	



П			Γ	
		Decontamination of		
		equipment and unit: -		
		Surgical asepsis:		
		» Sterilization		
		» Handling sterilized		
		equipment		
		» Calculate strengths of		
		lotions,		
		» Prepare lotions		
		 Care of articles 		
		Pre and post operative		
		care: -		
		Skin Preparations for		
		surgery: Local		
		Preparation of post		
		operative unit		
		Pre & Post operative		
		teaching and		
		counseling.		
		Pre & Post operative		
		monitoring.		
		Care of the wound		
		Dressings, Suture		
		Care, care of		
		Drainage, Application		
		of Bandages, Binders,		
		splints & Slings.		
		Bandages of venous		
		body part.		
		Administration of		
		Medications: -		
		Administer Madienties in 1:00		
		Medications in different		
		forms and routes.		
		Oral, Subcutaneous, Interpression of a		
		Intramuscular etc.		
		Parenteral:		
		Intramuscular		
		subcutaneous,		
		Intramuscular etc		
		Assist with Intra		
		venous medications		
		Drug measurements		
		and dose calculations.		
		Preparation of lotions		
		and solutions.		
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Administers topical applications.	
Insertion of drug into body cavity: Suppository &	
medicated packing etc.	
Instillation of Medicines and spray into Ear, Eye, Nose,	
and throat.	
Irrigations: - Eye, Ear, Bladder, vagina and moist.	
Care of dying patient: -	
Caring and packing of dead body.	
Counseling and supporting grieving relatives.	
Terminal care of the unit.	

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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT NURSING FOUNDATION

Question No.	Question description	Division of marks	Total marks		
1.	Total MCQs:- 15	15 x 1	15		
2.	Long Answer Questions (LAQ) (Any 2 out of 3)	2 x 10	20		
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8 x 5	40		
	TOTAL				

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



PSYCHOLOGY

Placement : First Year Time: Theory 60 hrs

Programme Description: This programme is designed to assist the students to acquireknowledge of fundaments of Psychology and develop an insight into behaviour of self and others. Further it is aimed at helping them to practice the principles of mental hygiene for promoting mental health in Nursing practice.

Unit	Time (Hrs.)	Learning Objectives	Content	Teaching Learning Activity	Assessment Methods
I	2	• Describe	• Introduction:	• Lecture	Essay type
		the history, scope and methods of psychology	• History, development and origin of science of psychology	• Discussion	Short answers
			• Definitions, scope, branches of psychology and relations with other subjects.		
			Relevance to nursing		
			Methods of Psychology		
II	4	• Explain	Biology of behaviour	• Lecture	• Essay type
		the biology of Human behaviour	• Body mind relationship-modulation process in health and illness	• Discussion	Short answers
			Genetics and behaviour:		
			Heredity and environment		
			 Brain and behaviour: Nervous System., Neurons and synapse, 		
			Association Cortex, Rt and Lt Hemispheres		
			 Psychology of Sensations Muscular and glandular controls of behaviour 		
			• Nature of behaviour of an organism/Integrated responses		



III	20	• Describe	Cognitive process	• Lecture	Essay type
		various cognitive processes and their	Attention: Types, determinants, Duration & degree, alterations	DiscussionPsychometric assessment	Short answers
		applications	Perception: Meaning, Principles, factors affecting, Errors.	Practice sessions	
			Learning: Nature, types, learner and learning, factors influencing, laws and theories, process, transfer, study habits		
			Memory: Meaning, Types, Nature factors influencing, Development Theories and methods of memorizing and Forgetting		
			Thinking: Types and levels, stages of development, Relationship with language and communication.		
			• Intelligence: Meaning, classification, uses, theories		
			Aptitude: Concept, types, Individual differences and variability		
			Psychometric assessments of cognitive processes		
			Alterations in cognitive process		
			Applications		



IV	8	Describe motivation, emotions, stress, attitudes and their influence on behavior	 Motivation and Emotional Processes: Motivation: Meaning, Concepts, Types, Theories, Motives and behaviour, Conflicts and frustration, conflict resolution Emotions & stress Emotion: Definition, components, Changes in emotions, theories, emotional adjustments, emotional adjustments, emotions in health and illness Stress: stressors, cycle, effect, adaptation & coping Attitude: Meaning, nature, development, factors affecting, Behaviour and attitudes Attitudinal change Psychometric assessment of emotions and attitudes Alterations in emotions Applications 	Lecture Discussion Role plays Case Discussion Demonstration Project work	Essay type Short answer
V	7	Explain the concept of personality and its influence on behaviour	 Personality Definitions, topography, types, Theories Psychometric assessments of personality Alterations in personality Application 	 Lecture Discussion Demonstration	Essay type Short answers



VI	7	Describe psychology of people during the life cycle	Developmental Psychology Psychology of people at different ages from infancy to old age. Psychology of vulnerable individuals-challenged, women, sick, etc. Psychology of groups	Lecture DiscussionCase Discussion	Essay type Short answers
VII	8	Describe the characteristics of Mentally health person Explain ego defense mechanisms	Mental hygiene and mental Health Concepts of mental hygiene and mental health Characteristics of mentally healthy person Warning signs of poor mental health. Promotive and preventive mental health strategies and services. Ego defense mechanisms and implications Personal and social adjustments: Guidance and counseling Role of nurse	 Lecture Discussion Case Discussion Role play Demonstration 	Essay type Short answers
VIII	4	Explain the psychological assessments and role of nurse	 Psychological assessment & tests Types, development, Characteristics, Principles, Uses, Interpretations and Role of nurse in psychological assessment. 	 Lecture Discussion Demonstration Practice sessions	Assessment of practice



- 1. Bhatia B. D. & Craig M : Element of psychology and mental hygiene for Nurses, Chennai. Orient Longmal.
- 2. Dodge Fernald and Peter S. Fernald, Introduction to Psychology, 5 edition, AITBS, 2004.
- 3. Jacob Anthikad, Psychology for Graduate Nurses, 3 edition, Jaypee, 2004.
- 4. Morgan C.T. & King, Introduction to Psychology, 7 edition, Megrow bill international.
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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT PSYCHOLOGY

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ) (Any2 out of 3)	2 x 10	20
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8 x 5	40
	75		

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of it 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of it 8 have to be answered.



MICROBIOLOGY

Placement: First Year Theory -60 Hours (Theory 45+15 lab)

Course Description: This course is designed to enable students to acquire understanding of fundamentals of Microbiology and identification of various micro-organisms. It also provides opportunities for practicing infection control measure in hospital and community setting.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment
I	5	Explain concepts and principles of microbiology and their importance in nursing	 Introduction: Importance and relevance to nursing Historical perspective Concepts and terminology Principles of microbiology 	Lecture Discussion	Short answers Objective type
II	15 T=10 P=5	Describe structure, classification morpholoyg and growth of bacteria Identify Microorganisms	General characteristics of Microbes • Structure and classification of Microbes. • Morphological types • Size and form of bacteria • Motility • Colonization • Growth and nutrition of microbes * Temperature * Moisture * Blood and body fluids • Laboratory methods for Identification of Micro- organisms • Staining techniques, Gram staining, Acid fast staining, Hanging drop Preparation • Culture; various medias	Lecture Discussion Demonstration	MCQ'S Short answers Objective type.



III	12 T=10 P=2	Describe the methods of infection control Identify the role of nurse in hospital infection control programme	Infection control Infection: Sources, portals of entry and exit, transmission. Asepsis Disinfection; Types and methods Sterilization; Types and Methods Chemotherapy and antibiotics Standard safety measures Biomedical waste management Role of Nurse Hospital acquired infection control programme Protocols, collection of samples, preparation of report and status of rate of infection in the unit / hospital, nurse's accountability, continuing education etc.	Lecture Discussion Demonstration Visits to CSSD Clinical practices	MCQ'S Short Answers Objective type
IV	16 T=12 P=4	Describe the different disease producing organisms	Pathogenic organisms Micro-organisms Cocci – gram positive and gram negative bacilli-gram positive gram negative Spirochaete Mycoplasms Rickettsiae Chlamydie Viruses Fungi-Superficial and Deep mycoses Parasites Rodents & vectors Characteristics, Source, portal of entry, transmission of infection Identification of disease producing micro-organisms Collection, handling and transportation of various specimens.	Lecture Discussion Demonstration Clinical practice	MCQ'S Short answers Objective type.



V	12 T=8 P=4	Explain the concept of immunity, hyper sensitivity and immunization	 Immunity Immunity – Types, classification Antigen and antibody reaction Hypersensitivity – skin test Serological tests Immunoprophylaxis Vaccines & sera – Types & Classification, storage and handling, cold chain Immunization for various diseases Immunization Schedule 	Lecture Discussion Demonstration Clinical practices	MCQ'S Short answers Objective type.
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References:

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- 6. Chakravarti Text book of Microbiology.
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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT MICROBIOLOGY

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ)	2 x 10	20
	(Any2 out of 3)		
3.	Short Notes (8 out of 10)	8x5	40
	a) b) c) d) e) f) g) h) i) j)		
	75		

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions : 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered



INTRODUCTION TO COMPUTERS

Placement: First Year Time: Theory-45 hrs

(Class - 15 + lab 30)

Course Description : This programme is designed for students to develop basic understanding of uses of computer and its application in Nursing.

Unit	Hours	Learning Objective	Content	Teaching Learning Activities	Assessment methods
I	3	Identify & define various concepts used in computer Identify application of computer in nursing	 Introduction Concepts of Computers Hardware and software; trends and technology Application of computers in nursing 	Lecture Discussion Demonstration	Short answers Objective type.
II	26 T=6 P=20	Describe and Use the Disk Operating System Demonstrate skill in the use of MS Office	 Introduction to disk operating system DOS Windows (all version) Introduction MS-Word MS-Excel with pictorial presentation MS-Access MS-Power point 	Lecturer Discussion Demonstration	Short answers Objective type Practical Exam.
III	5 T=2 P=3	Demonstrate skill in using in using multi-media Identify features of computer aided teaching and testing	Multimedia; types & uses Computer aided teaching & testing.	Lecture Discussion Demonstration	Short answers Objective type Practical Exam and Viva Voce



IV	4 T=1 P=3	Demonstrate use of internet and Email	• Use of Internet and : e-mail	Lecture Discussion Demonstration Practice Session	Short answers Objective type Practical Exam and Viva Voce
V	4 T=2 P=2	Describe and use the statistical packages	Statistical packages: types and their features	Lecturer Discussion Demonstration Practice Session	Short answers Objective type Practical Exam and Viva Voce
VI	3 T=1 P=2	Describe the use of Hospital Management System	Hospital Management System Types and uses	Lecture Discussion Demonstration	Short answers Objective type Practical Exam and Viva Voce

References:

- 1. Jain and Saakshi (2004), COMPUTER FOR NURSING
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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT INTRODUCTION TO COMPUTER

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 10	10 x 1	10
2.	Long Answer Questions (LAQ) (Any2 out of 3)	2 x 10	20
3.	Short Notes (4 out of 6) a) b) c) d) e) f)	4 x 5	20
	50		

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered
- 3. Short Notes: 6 questions will be given out of which, 4 have to be answered



SYLLABUS B.SC NURSING PROGRAMME (2nd Year) SOCIOLOGY

Placement: Second Year Time: Theory: 60 hrs

Course Description: This course is designed to introduce the concepts of sociologyrelated to community and social institutions in India and its relationship with health, illness and nursing.

Unit	Hours	Learning Objectives	Content	Teaching learning activities	Evaluation
I	1	Describe the importance of sociology in Nursing	 Introduction Definition of Sociology Nature and Scope of the discipline Importance and application of Sociology 	Lecture Discussion	Essay type Short answers
П	3	Describe the inter - relationship of individual in society and community	 Individual & Society Society and Community Nature of Society Difference between society and community Process of socialization and individualization Personal disorganization 	Lecture Discussion	Essay type Short answers Assignment
III	3	Describe the influence of culture and on health and disease	 Culture Nature of culture Evolution of culture Diversity and uniformity of culture Culture and socialization Trans cultural society Influence on health and disease 	Lecture Discussion Panel Discussion	Essay type Short answers Assignment



IV	4	Identify various social groups and Their interactions	Social groups and Processes The meaning and classification of groups Primary & Secondary Group In-group V/s. Out-group, Class, Tribe, caste Economic, Political, Religious groups, Mob, Crowd, Public and Audience Interaction & social processes Cooperation, competition, conflict Accommodation, Assimilation & Isolation	Lecture Discussion	Essay type Short answers Assignment
V	6	Explain the growth of population in India and its impact on health	 Population Society and population Population distribution in India Demographic characteristics Malthusian theory of populations Population explosion in India and its impact on health status Family welfare programmes 	Lecture Discussion Community Identification	Essay type Short answers Assessment of reporton community Identification



	I	T		I	1
VI	5	Describe the	Family and Marriage	Lecture	Essay type
		institutions of family and	 Family - functions 	Discussion	Short
		marriage in India	Types - Joint, Nuclear, Blended and extended family:	Family case study	answers
			Characteristics The modern family -		
			Changes, problems Dowry etc.		
			 Welfare services 		
			Changes & legislations on family and marriage in India - marriage acts		
			 Marriage: Forms and functions of marriage 		
			 Marriage and family problems in India Family, marriage and their influence on health and health practices. 		
VII	7	Describe the class	Social Stratification	Lecture	Essay type
		and caste system and their influence	 Meaning & types of social stratification 	Discussion Community	Short answers
		sys • Fea Ind pol cas and	The Indian Caste system-origin & features	survey	Assignment
			Features of Caste in India Today Government policies for schedule caste, schedule tribe, and OBC Social Class system and status		
			Social mobility- meaning & types Race as a biological concept, criteria of racial classification Salient features of Primary races Racism Influence of Class, caste and Race on health and health practices		



VIII	6	Describes the types of Communities in India, their practices and the impact on health	Types of communities in India (Rural, Urban and Regional) • Features of village community & Characteristics of Indian villages Panchayat system, • social dynamics Community development project and planning Changes in Indian Rural life • Availability of health facilities in rural and its impact on health and health practices • The growth of cities: • Urbanisation and its impact on health and health practices • Major Urban problems — • Urban Slums • Region; problems and impact on Health	Visit to rural and urban community Community survey	Essay type Short answers Assessment of report
IX	4	Explain the process of Social Change	 Region; problems and impact on Health Social Change Nature and process of Social Change Factors influencing Social change: cultural change, Cultural lag, culture and health (with special reference to women's health). Introduction to Theories of social change: Linear, Cyclical, Marxian, Functional, Sanskritisation and Modernisation. Role of nurse -Change agents 	Lecture Discussion	Essay type Short answers



X	4	Describe the social system and inter personal relationship of social organizations	 Social organization and social system Social organization: elements, types Democratic and authoritarian modes of participation, Voluntary associations Social systems: Definition and types pf social system Role and status as structural elements of social system Inter-relationship of institution 	Lecture Discussion
XI	2	Explain the nature and process of social control	 Social Control Nature and process of social control Political Legal, Religious, Educational Economic. Industrial and Technological system, Norms & Values- Folkways& Mores Customs, Laws and fashion Role of nurse 	Lecture Discussion



XII	15	Describe the role of the nurse in dealing with social problems in India	 Social Problems Social disorganization Control & planning: poverty, housing, and illiteracy. Food supplies, prostitution, rights of women & children, Government health programs, vulnerable 	Lecture Discussion	Essay type Short answers
			programs, vulnerable groups, elderly, handicapped minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance abuse, HIV/AIDS. Social Welfare programmes in India Role of nurse		

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- 4. Ashok N. Patel, S. S. Hooda, Sociology
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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT SOCIOLOGY

Q. No.	Question description	Division of marks	Total marks		
1.	Total MCQs:- 15	15 x 1	15		
2.	Long Answer Questions (LAQ)	2 x 10	20		
	(Any2 out of 3)				
3.	Short Notes (8 out of 10)	8 x 5	40		
	a) b) c) d) e) f) g) h) i) j)				
	TOTAL				

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



PHARMACOLOGY

Placement: Second Year Time: Theory - 45 hrs

Course Description: This course is designed to enable students to acquire understanding of pharmaco dynamics, pharmaco kinetics, principles of therapeutics and nursing implications.

Unit	Hours	Learning Objective	• Content	Teaching Learning Activities	Assessment methods
I	3	Describe pharmacodynamics, pharmacokinetics, classification and the principles of drug administration	Introduction to Pharmacology Definitions Sources Terminology use Types: Classification Pharmaco-dynamics: Actions, therapeutic Adverse, toxic Pharmacokinetics: Absorption, distribution, metabolism, interaction, excretion Review: Routes and principles of administration of drugs Indian pharmacopoeia: Legal issues Storage of various drugs Calculation of drug dosage Rational use of drugs Principles of therapeutics	Lecture Discussion	Short answers Objective type



II	6	Explain chemotherapy of specific infections and infestations and nurse's responsibilities	 Chemotherapy Pharmacology of commonly used: Penicillin Cephalosporins Aminoglycosides 	Lecture Discussion Drug study/ Presentation Field visits/ educational trips to pharmaceutical	Short answers Objective type
			 Macrolide & Broad Spectrum Antibiotics Sulfonamides Quinolones Antiamoebic Antimalarials Antihelmintics Antiscabies agents Antiviral & Antifungal agents Antitubercular drugs Antileprosy drugs Anticancer drugs Immuno-suppressants Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse. 	farms / companies Pharmacological management of clinical conditions. Practical classes in the pharmacology department like administration \ of injections and medications	
III	2	Describe antiseptics, disinfectants, insecticides and nurse's responsibilities	Pharmacology of commonly used anitiseptics, disinfectants and insecticides • Antiseptics: Composition, action, dosage, route, indications, contraindications, drug interactions, side-effects, adverse effects, toxicity, androle of nurse • Disinfectants • Insecticides	Lecture Discussion Drug study/ Presentation	Short answers Objective type



IV	2	Describe drugs	Drugs acting on G I System	Lecture	Short	
1 V		acting gastro- intestinal system and nurse's responsibilities			answers	
			and nurse's	Pharmacology of commonly used	Discussion Drug study/	Objective
					• Antiemetics	presentations
			• Emetics			
			• Purgatives			
			• Antacids			
			Cholinergic			
			Anticholinergics			
			Fluid and Electrolyte therapy			
			 Antidiarrhoeals 			
			Histamines Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity& role of nurse.			
V	2	Describe drugs used on	Drugs used on Respiratory System	Lecture	Short answers	
		Respiratory systems	Pharmacology of commonly used	Discussion Drug study/ presentations	Objective type	
		and nurse's responsibilities		presentations		
			Mucolytics			
			Decongestants			
			• Expectorants			
			• Antitussives			
			Bronchodilators			
			Broncho constrictors			
			Antihistamines Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity& role of nurse.			



VI	2	Describe drugs used on Urinary systems and nurse's responsibilities	 Drugs used on Urinary System Pharmacology of commonly used Diuretics and Antidiuretics Urinary antiseptics Cholinergics and anticholinergics Acidifiers and alkalanizers Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse. 	Lecture Discussion Drug study/ presentations	Short answers Objective type
VII	4	Describe drugs used in deaddiction, emergency, deficiency of vitamins & minerals, positioning, for immunization and immune suppression and nurse's responsibilities	 Miscellaneous Drugs used in deaddiction Drugs used in CPR & emergency Vitamins and minerals Immuno suppressants Antidotes Antivenom Vaccines and Sera 	Lecture Discussion Drug study/ presentations	Short answers Objective type
VIII	1	Describe drugs used on skin and mucous membranes and nurse's responsibilities	 Drugs used on skin and mucus membranes Topical applications for skin, eye, ear, nose, and buccal cavity Antiprurities Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse. 	Lecture Discussion Drug study/ presentations	Short answers Objective type



IX	8	Describe drugs used on Nervous system	Drugs acting on Nervous System	Lecture Discussion	Short answers
		and nurse's responsibilities	Basic & applied pharmacology of commonly used:	Drug study/ presentations	Objective type
			Analgesics & Anesthetics		
			> Analgesics		
			- Nonsteroidal anti- inflammatory		
			• (NSAID) drugs		
			> Antipyretics		
			➤ Hypnotics and sedatives		
			• Opioids		
			Non opioids		
			Tranquilizers		
			General & local anaesthetics		
			Gases – Oxygen, nitrous oxide, Carbon dioxide		
			Cholinergic & anticholinergics:		
			Muscle relaxants		
			Major tranquilizers		
			Anti psychotics		
			> Antidepressants		
			> Anticonvulsants		
			> Adrenergics		
			Noradrenergics		
			Mood stabilizers		
			> Acetylcholine		
			Stimulants Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.		



X	5	Describe	Cardiovascular Drugs	Lecture	Short					
		drugs used on Cardiovascular	Haematinics	Discussion	answers					
		system and	Cardiotonics	Drug study/	Objective					
		nurse's	Anti anginals	presentations	type					
		responsibilities	responsionnes	responsionnes	Antihypertensives & vasodilators					
			Anti-arrhythmics							
				 Plasma expanders Coagulants & anticoagulants Antiplatelets & thrombolytics 				Plasma expanders		
			Hypolipidemics Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.							



XI	4	Describe drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy and nurse's responsibilities	Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy Insulin & Oral hypoglycemics Thyroid supplements & suppressants Steroids , Anabolics Uterine stimulants & relaxants Oral contraceptives Other estrogen — progestrone preparations Corticotrophine & Gonadotropines Adrenaline Prostaglandins Calcitonins Calcium salts Calcium regulators Composition, action, dosage, route, indications, drug interactions, side effects, adverse effects, toxicity & role of nurse.	Lecture Discussion Drug study/ presentations	Short answers Objective type
XII	6	Demonstrate awareness of the common drugs used in alternative system of medicine	Introduction to drugs used in alternative system of medicine Ayurveda, Homeopathy, Unani and Siddha etc	Lecture Discussion Observational visits	Short answers Objective type



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PATHOLOGY AND GENETICS

Placement : Second Year Theory – 45 Hours \

Pathology - 30 Hrs (Class 20 + Lab 10 Hrs)

Genetics – 15 Hrs

PATHOLOGY

Course Description: This course is designed to enable students to acquire knowledge of pathology of various disease conditions and apply this knowledge in practice of nursing.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Aids	Evaluation
I	03	Define the common terms used in pathology Appreciate the deviations from normal to abnormal structure and functions of the body system	 General Pathology Introduction to pathology Review of cell and tissues Definition of terms Methods & techniques Cellular & tissue changes Infiltration and regeneration Inflammations and infections Wound healing and repair Nature of injuries, adaptive responses, reversible & irreversible cell injury Cell accumulations Vascular changes Cellular growth and neoplasms Normal and cancer cell Benign and malignant growths In situ carcinoma Disturbances of fluid and electrolyte balance, role of nurse 	Lecture Discussion Explain using charts	Short answers Objective type



II	15	Explain	Special Pathology	Lecture	Short
	T- 10 P-05	pathological changes in disease	Pathological changes in disease conditions of	Discussion Explain using	answers Objective
		conditions of	various systems:	charts, slides,	type
		various systems	Respiratory tract	specimen, x-rays and scans	
			» Tuberculosis, Bronchitis,	Visit to pathology	
			» Pleural effusion & Pneumonia	lab, endoscopy unit and OT	
			» Lung abscess, emphysema, bronchiectasis	,	
			 Bronchial asthma, chronic obstructive pulmonary disease and tumours 		
			Cardiovascular system		
			» Pericardial effusion		
			» Rheumatic heart disease		
			» Infective endocarditis, atherosclerosis		
			» Ischemia, infarction & aneurism		
			» Gastointestinal tract		
			» Peptic ulcer, Typhoid		
			 Carcinoma of GI tract – buccal, esophageal, gastric and intestinal 		
			• Liver, Gall bladder & pancreas		
			» Hepatitis, chronic liver abscess,		
			» Cirrhosis		
			» Tumours of liver, gall bladder and pancreas		
			 Cholecystitis 		
			Kidneys & Urinary tract Glomerulonephritis, pyelonephritis		



	» Calculi, Renal failure, Renal carcinoma & Cystitis
	» Diabetes Mellitus
	Male genital system
	» Cryptorchidism, testicular atrophy
	» Prostatic hyperplasia, Carcinoma penis & prostate
	Female genital system
	» Fibroids
	» Carcinoma cervix & endometrium
	» Vesicular mole, choriocarcinoma
	» Ectopic gestation
	» Ovarian cyst & tumours
	Cancer breast
	Central Nervous System
	» Vascular disorders – thrombosis, embolism
	» Stroke, paraplegia, quadriplegia
	» Tumours, meningiomas- gliomas
	Metastatic tumour
	Skeletal system
	Bone healing, osteoporosis, osteomyelitis
	Arthritis and tumours



III	07	Describe	Clinical Pathology	Lecture	Short
	T-04 P-03		Various blood and bone marrow tests in assessment and monitoring of disease conditions	Discussion	answers Objective type
		conditions	» Hemoglobin		
			» RBC, white cells & platelet counts		
			» Bleeding time, clotting time and prothrombin time		
			 Blood grouping and cross matching 		
			» Blood chemistry		
			» Blood culture		
			» Serological and immunological tests		
			» Other blood tests		
			» Examination of bone marrow		
			» Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiological tests, inference and normal values		
			Nurse's role in collection and dispatch of various samples for laboratory tests.		
			Universal safety precautions		



IV	03 T-02 P-01	Describe the laboratory tests for examination of body cavity fluids, transudates and exudates	Examination of body cavity fluids, transudates and exudates The laboratory tests used in CSF analysis Examination of other body cavity, fluids, transudates and exudates sputum, wound discharge etc. Analysis of gastric and duodenal contents Analysis of semen- sperm count, motility and morphology and their importance in infertility Methods of collection of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values. Nurse's role in assisting and preparing the patient for these diagnostic tests	Lecture Discussion Demonstration	Short answers Objective type
V	02 T-01 P-01	Describe the laboratory tests for examination of Urine and Faeces	 Urine & Faeces Urine Physical characteristics Analysis Culture and sensitivity Characteristics Characteristics Stool examination: occult blood, ova, parasite and cyst, reducing substance etc. Methods of collection for various tests, inference and normal values 	Lecture Discussion Demonstration	Short answers Objective type



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GENETICS

Placement: Second Year Theory – 15 Hours

Course Description: This course is designed to enable students to acquire understanding of Genetics, it rolein causation and management of defects and diseases.

Unit	Hours	Learning Objectives	Content	Teaching Aids	Evaluation
I	03	Explain nature, Principles and perspectives of heredity	 Introduction Practical application of genetics in Nursing Impact of genetic condition on families Review of cellular division mitosis and meiosis Characteristics and structure of genes Chromosomes – sex determination Chromosomal aberrations pattern of inheritance Mendalian theory of inheritance Multiple allots and blood groups Sex linked inheritance Mechanism of inheritance Errors in transmission (Mutation) 	Lecture Discussion Explain using charts, slides	Short answers Objective type



II	03	Explain maternal, Prenatal and genetic influences On development of defects and diseases	Maternal, prenatal and genetic influences on development of defects and diseases » Conditions affecting the mother: » genetic and infections » Consanguinity atopy » Prenatal nutrition and food allergies » Maternal age » Maternal drug therapy » Prenatal testing and diagnosis » Effect of radiation, drugs and chemicals » Infertility » Spontaneous abortion » Neural tube defects and the role of folic acid in lowering the risks » Down syndrome (Trisomy 21)	Lecture Discussion Explain using charts, slides	Short answers Objective type
III	02	Explain the screening methods for genetic defects and diseases in neonates and children	Genetic tests in neonates and children • Screening for » Karyotype analysis » Congenital abnormalities » Developmental delay » Dysmorphism	Lecture Discussion Explain using charts, slides	Short answers Objective type
IV	02	Identify genetic disorders in adolescents and adults	Genetic conditions of adolescents and adults Cancer genetics – Familial cancer Inborn errors of metabolism Blood group alleles and hematological disorders Genetic haemochromatosis Huntington's disease Mental illness	Lecture Discussion Explain using charts, slides	Short answers Objective type



V	05	Describe the role of nurse in genetic services and counselling	Services related to Genetics Genetic testing Human genome project Gene therapy The Eugenics movement Genetic counseling Legal and ethical issues Role of nurse	Lecture Discussion Explain using charts, slides	Short answers Objective type
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- 2. S D Gangane: Human Genetics II Edition, Saurabh Printers, Noida.
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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT PHARMACOLOGY, PATHOLOGY AND GENETICS

Question No.	Question description	Division of marks	Total marks			
1.	Total MCQs:- 15					
	i) Pharmacology 01 to 08	8 X1 =08	15			
	ii) Pathology 09to 13	5 X1 =05				
	ii) Genetics 14 to 15	2 X1 =02				
	Section – A (Pharmacology -	30 Marks)				
2.	Long Answer Question (Any 1out of 2) a) b)	1 x 10= 10	30			
3.	Short Notes (Any 4 out of 6) a) b) c) d) e) f)	4 x 5 =20				
	Section – B (Pathology & Genetics- 30 Marks)					
4.	Long Answer Question (Pathology) (Any 1out of 2) a) b)	1 x 10= 10	10			
5	Short Notes (Pathology) (Any 2 out of 3) a) b) c)	2 x 5= 10	10			
6.	Short Notes (Genetics) (Any 2 out of 3) a) b) c)	2 x 5 =10	10			
	TOTAL					



MEDICAL SURGICAL NURSING

(ADULT INCLUDING GERIATRICS) – I

Placement : Second Year Time : Theory - 210 hrs

Practical: 720 hrs

Course Description : The purpose of this course is to acquire knowledge and develop proficiency in caring for patients with medical surgical disorders in varieties of health care settings and at home.

Unit	Hours	Learning Objectives	Content	Teaching Aids	Evaluation
I	10	Appericiate the trends in medical & surgical nursing Describe the role of a Nurse in caring for adult patients in hospital & Community Describe the concept of Medical Surgical asepses	Introduction to Medical Surgical Nursing Evaluation & trends of medical & surgical nursing Review of concepts of health & illness, diseases concepts, its causes-Classification of diseases, International classification of diseases (ICD – 10 or later version), Acute, chronic, & terminal stages of illness Review of concept of compressive nursing care in medical surgical condition based on nursing process. Role of nurse patients & family in care of adult patients. Role & responsibility of nurse in medical surgical settings: Outpatient department In patient department In patient department Intensive care units Home & community settings Introduction to medical sepsis Inflammation and Infection Stress adaptation Hemorrhage Nutritional consideration immunity Wound heeling Care of surgical patients. Preoperative Intra-operative	Lecture discussion Demonstration Practical session Supervised clinical practice	Short answers Objective types Assessment of skills with check list



II	15	Describe the common sign and symptoms of problems and their specific nursing interventions.	Common sign and symptoms and management Fluid & electrolyte imbalance Vomiting Dyspnea and cough, respiratory obstructions Fever Shock Unconsciousness, syncope Pain Incontinence (bladder & bowl) & retention of urine Constipation Diarrhea Edema Age related problems Geriatric, Problem, Hygiene	Lectures & Discussion Case discussion Seminar	Essay type Short answers Objective type of question Assessment of s kill assessment with check list Clinical Work
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	1	Т			<u> </u>
III	20	Describe the Etiology, pathophysiology clinical manifestation & diagnostic measures & management of patients (adult Including elderly) with disorder of respiratory system.	Nursing management of patients (adults including elderly) with respiratory problems Review of Anatomy & Physiology of respiratory System, Nursing Assessment – History & Physical assessment Etiology, Pathophysiology, Clinical manifestations, diagnosis, treatment modalities & Medical, surgical, dietetics & nursing management of adults including elderly with: Upper Respiratory tract infections Bronchitis, Asthma Emphysema Empyma Atelectasis Chronic obstructive Pulmonary Diseases (COPD) Bronchiectasis Pneumonia Pulmonary tuberculosis Lung abscess Pleural abscess, effusion Cysts & Tumours Chest injuries Respiratory arrest, ARDS & insufficiency Pulmonary embolism Special therapies, alternative therapies Nursing Procedures Drugs used in treatment of respiratory disorders. Demonstrations Respiratory assessment assisting in procedures of Xray chest, MRI, lung Biopsy, bronchoscopy Thoracocentesis - care of patients	Lectures & Discussion charts, graphs models, films and slides Demonstrations Practice sessions Health Education Case discussions / Seminar Case Discussion Drug book presentation Supervised clinical practice Exposure to Procedure.	Essay type Short answers Objective type of questions Assessment of skills and check list Assessment of patients with management problem



IV	30	Describe the	Nursing management of patient	Lectures &	Essay type
		aetiology,	(Adults including elderly) with	Discussion	Short answers
		Pathophysiology, clinical manifestation, diagnostic measures and management of patients (Adults including elderly) with disorders of Digestive system	 disorders of Digestive system Review of Anatomy & Physiology of digestive system Nursing Assessment – history & physical assessment Etiology, patho-physiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietics & nursing management. Disorders of oral cavity Oral cavity- Lips, gums, tongue, salivary glands and teeth. esophagus- inflammation, 	Charts, graphs models, films and slides Demonstrations Practice Sessions Health Education Case discussions/ Seminars Clinical practice Drug book Supervised clinical practice Drug Book / presentation	Short answers Objective Type Assessment of skills with check list Clinical Assessment of Patient management problem.
			 stricture, obstruction, bleeding & tumour Stomach & Duodenumhiatus hernia, gastritis, peptic & duodenal ulcer, bleeding, tumour, pyloric stenosis Food allergy & poisoning 		
			 Small intestinal disorders & inflammation and infection Ulcerative colitis, entritis, malabsorbtion syndrome, Obstruction, tumours perforation, 		
			Large Intestinal disorders Colitis inflammations & infection, obstruction, Tumours, lump		
			• Hernias		
			Appendix Inflammation, mass, abscess, rupture Anal & Rectum Fistulas, fissures, Hemorroides and tumour		



	 Peritonitis/ acute abdominal 	
	Pancreas, inflammation - cyst, Acute & chronic pancreatitis, abscess & tumours management	
	• Liver- inflammation, cyst Jaundice, hepatitis, cirrhosis, abscess, portal hypertension, hepatic failure and tumours	
	• gall bladder – Inflammation, obstruction, stones & tumours	
	• special therapies alternative therapies	
	Nursing procedure	
	• Drugs used in treatment of disorders of digestive system.	



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V	30	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures and management of patients (adults including elderly) with disorders of blood and cardiovascular problems Describe the vascular conditions and its nursing management	Nursing management of patient (adults including elderly) with blood and cardiovascular problems Review of Anatomy & Physiology of blood and cardiovascular system Nursing Assessment – History & Physical assessment. Etiology, pathophysiology, clinical manifestation, diagnosis, treatment modalities: medical, surgical, Dietics & nursing management of: Vascular system Hypertension Hypotension Atheriosclerosis Raynaud's Diseases Aneurysm of peripheral vascular diseases Coronary artery disease Ischemic heart disease Coronary atherosclerosis Angina pectoris Myocardial infarction Valvular disorders of the heart Congenital & acquired Rheumatic Heart Diseases Endocarditis, Pericarditis, Myocarditis	Lectures & Discussion Explain charts, graphs models, films and slides Demonstrations Practice sessions Case discussions / Seminars Health education Supervised Clinical practice Drug book presentation Exposure to procedure visit to blood bank participation in blood donation Counselling	Essay type Short answers Objective type Skill assessment with check list assessment of patient management problem
		_	1	•	
		_	1	•	
		management		procedure visit	
			'		
				blood donation	
			1	Counselling	
			1		
			1		
			,		
			Myocarditis		
			Cardio Myopathis		
			Cardiac dysarthmias & heart blocks		
			Congestive cardiac failure		
			Corpulmonale		
			Pulmonary Odema Cardiogenic shock		
			Cardiac tamponade		
			Cardiac emergency & arrest		
			Valvular heart disease- Congenital & acquired		



	» Mitral stenosis	
	 Conduction system 	
	 Cardiogenic shock 	
	• Cardio pulmonary Resuscitation (CPR)	
	Cardiac arrest- ACLS, BLS	
	• Blood	
	» Anaemias	
	» Polycythemia	
	 Bleeding disorders clotting factor defects and platelet defects 	
	» Thrombocytopenia	
	» Hemophilia	
	» Thalassemia	
	» Leukemia	
	» Leucopenia	
	 Agranulocytosis 	
	» Lymphomas & Myelomas	
	 Special therapies 	
	• Blood transfusion safety checks, procedures & requirements, management of observe transfusion reaction, records for blood transfusion.	
	 Management of counselling of blood, donors, phlebotomy, procedure and post donation management blood bank, functioning and hospital, transfusion committee. 	
	• Bio-safety and waste management in relation of blood transfusion.	
	• Role of nurse in organ donation, transplant, retrieval & banking	
	• Alternative therapies	
	• Nursing procedure drug used in treatment of blood	
	• Drugs used in cardiovascular system.	





VII	5	Describe the etiology, Patho-Physiolgy, Clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of male reproductive system.	Nursing management of disorders of male (adults including elderly) reproductive system Review of anatomy and Physiology of male reproductive system Nursing assessment-history and physical assessment Etiology, patho-physiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical dietetics and nursing management of disorders of male reproductive system Congenital malformations; cryptorchidism	Lecture discussion Explain Using Charts, Graphs Models, films, slides Demonstration Practice session Case discussion / seminar Health education Supervised clinical practice Drug book / presentation	Essay type Short answer Objective type Assessment of skills with check list Assessment of patients management problem
		manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of male reproductive	 Review of anatomy and Physiology of male reproductive system Nursing assessment-history and physical assessment Etiology, patho-physiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical dietetics and nursing management of disorders of male reproductive system 	Models, films, slides Demonstration Practice session Case discussion / seminar Health education Supervised clinical practice Drug book /	type Assessment of skills with check list Assessment of patients management



	1	T	T		
VIII	10	Describe the etiology, Patho Physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of endocrine system	Nursing management of patient (adults including elderly) with disorders of endocrine system Review of anatomy and physiology of endocrine system Nursing assessment-history and physical assessment Etiology, patho-physiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of Disorders of pituitary Disorders of thyroid and parathyroid Adrenal tumour Diabetes mellitus Diabetes insipidus special therapies, alternative	Lecture discussion Explain using Charts, graphs Models, films, slides Demonstration Practice session Case discussion / seminar Health education Supervised clinical practice Drug Book/ Presentation	Essay type Short answer Objective type Assessment of Skills with check list Assessment of patients management problem



IX	10	Describe the etiology, Patho Physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of skin	Nursing management of patients (adults including elderly) with disorders of Integumentary system Review of anatomy and physiology of skin and its appendages Nursing assessment-history and physical assessment Etiology, Pathphysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of disorders of skin and its appendages Lesions and abrasions Infection and infestations: Dermatitis Dermatoses; infectious and non infectious "inflammatory dermatoses Acne vulgaris Allergies and Eczema Psoriasis Malignant melanoma Alopecia Leucoderma Care of patient with Skin surgery Special therapies, alternative therapies	Lecture discussion Explain Using Charts, Graphs Models, films, slides Demonstration Practice session Case discussion / seminar Health education Supervised clinical practice Drug book	Essay type Short answer Objective type Assessment of skills with check list Assessment of patients management problem
			surgery Special therapies,		



X	15	Describe the etiology, Pathology, Physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of musculoskeletal system	Nursing management of patients (adults including elderly) with musculoskeletal problems Review of anatomy and physiology of musculoskeletal system, Nursing assessment-history and physical assessment Aetiology, Pathophysiology, clinical manifestation, diagnosis, treatment modalities and medical, surgical, dietetics and nursing management of Disorders of: Muscles, ligaments and joints inflammation, infection trauma Bones-inflammation, infection, dislocation, sprain, fracture, tumour & trauma Bones-inflammation, infection, dislocation, sprain, fracture, tumour & trauma Costeomalacia and osteoporosis Arthritis Congenital deformities Spinal column – defects and deformities, tumour, Prolapsed inter vertebral disc. Pott's spine Paget's disease Amputation Prosthesis Transplant and replacement	Lecture discussion Explain using Charts, graphs Models, films, slides Demonstration Practice session Case discussion / seminar Health education Supervised Clinical practice Drug book presentation	Essay type Short answer Objective type Assessment of skills With check list Assessment of patients management problem
			 Prosthesis Transplant and replacement surgeries Rehabilitation special therapies, alternative therapies Nursing procedures, drug used in treatment of disorders of musculoskeletal system 		



ΧI	10	Describe the	Nursing management of	Lecture discussion	Essay type
XI	10	Describe the etiology,\ Pathology, Physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of Immunological system	Nursing management of Patient (adults Including elderly) with Immunological problems Review of Immune system. Nursing Assessment-History and physical assessment Etiology, Pathophysiology, clinical manifestations, diagnosis treatment modalities and medical, surgical, dietetics and nursing management of Immunodeficiency disorder Primary immuno deficiency Phagocytic dysfunction B-cell and T-cell deficiencies Secondary immune deficiencies Acquired Immuno deficiency Syndrome (AIDS) Incidence of HIV & AIDS Epidemiology Transmission-prevention of Transmission Standard safety precautions Roll of nurse, counselling Health education and home care consideration, National AIDS control program NACO various National and international agencies. Infection control program Rehabilitation, Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of immunological systems	Lecture discussion Explain Using Charts, graphs Models, films, slides Demonstration Practice session Case discussion / seminar Health education Supervised Clinical practice Drug book presentation. Orientation visit to hospital control system	Essay type Short answer Objective type Assessment of skills with check list Assessment of patients management problem



	1	1			
XII	20	Describe the	Nursing management of patient	Lecture discussion	Essay type
		etiology, Patho-	(adults including elderly) with	Explain using	Short answer
		Physiology,	Communicable Diseases	Charts, graphs	Objective
		clinical	Overview of infectious	Models, films,	type
		manifestations,	disease, the infectious process	slides	Assessment
		diagnostic	Nursing Assessment-History	Demonstration	of skills with
		measures and	and physical assessment	Practice session	check list
		management of patients (adults	Epidemiology, infectious		Assessment
		including	process, clinical manifestations,	Case discussion /	of patients
		elderly) with	diagnosis, treatment, prevention	seminar	management
		Communicable	and dietetics. Control and	Health education	problem
		Diseases	eradication of common	Supervised	proorem
		21304303	communicable diseases	Clinical practice	
			» Tuberculosis	Drug Book	
			» Diarrhoeal diseases	presenation	
			» Hepatitis A-E		
			» Herpes		
			» Chickenpox		
			» Smallpox		
			» Typhoid		
			» Meningitis		
			» Gas gangrene		
			» Leprosy		
			» Dengue » Plague		
			» Malaria		
			» Diphtheria		
			» Pertussis		
			» Poliomyelitis		
			» Measles		
			» Mumps		
			» Influenza		
			» Tetanus		
			» Yellow fever		
			» ilariasis		
			» HIV, AIDS communicable		
			diseases		
			Reproductive Tract		
			Infections		
			Special infection control		
			measures; Notification,		
			Isolation, Quarantine,		
			Immunization, Infectious		
			Disease Hospitals Special		
			therapies, Alternative Therapies Nursing		
			procedures Drugs used in		
			treatment.		
			d'outiliont.		



		I		T	ı
XIII	25	Describe the organization	Peri Operative nursing:	Lecture discussion	Essay type
		and physical set	Organization and physical set up of the operation theatre	Explain using Charts, graphs	Short answer
		up of operation	(OT):	Models,	Objective
		theatre	» Classification	films,slides	type
		Identify	» O.T.DESIGN	Demonstration	Assessment of skills with
		the various	» Staffing	Practice session	check list
		instruments	» Members of the OT team.	Case discussion /	Assessment
		and equipments used for	» Duties and responsibility of	seminar	of patients
		common	nurse in OT	Health education	management
		surgical	» Principles of health and	Supervised clinical	problem
		procedures	operating room attire.	practice	
		Describe the	» Instruments	Drug book	
		infection control	» Sutures and suture materials		
		measures in	» Equipments		
		the operation theatre	» O.T. tables and sets for common surgical procedure		
		Describe the role of the	 Positions and draping for common surgical procedure 		
		nurse in the	» Scrubbing procedures		
		Peri-operative	» Gowning and gloving		
		nursing care	» Preparation of O.T. sets		
			 Monitoring the patients during surgical procedures 		
			• Maintenance of therapeutics environment in O.T.		
			Standard safely measures		
			 Infection control: fumigation, disinfection and sterilization 		
			» Biomedical waste management		
			» Prevention of accidents and hazards in O.T.		
			Anaesthesia		
			• Types		
			» Methods of administration		
			» Effects and stages		
			» Equipment		
			» Drugs		
			Cardio pulmonary		
			• Resuscitation (CPR)		
			Pain management techniques		
			• Legal Aspects		



MEDICAL SURGICAL NURSING

(Adult including Geriatrics) - I

PRACTICAL

Placement: Second Year Time: 720 hrs

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
General Medical Ward (Respiratory, GI, Endocrine, Renal, Hematology)	6	Provide nursing care to adult patients with medical disorders Counsel and educate patients and families	Assessment of the patient Taking history Perform general and specific physical examination * Respiratory * GI * Endocrine * Renal * Hematology Identify alterations and deviations. Practice medical surgical asepsis Standard safety measures. Administer medications Oral, IV, IM, ID, Subcutaneous, Airlock and Z-Track method Blood and Component Therapy IV therapy * IV canulation * Maintenance and monitoring * IV additives * IV Bottle change Oxygen therapy by different methods * Ambu bag * Ventuiry mask • Nebulization • Chest physio- therapy • Postural drainage Naso gastric feeding	Plan and give care to 3-4 assigned patients Nursing care plan- 02 Nursing case presentaion-1 Drug presentation-1 Maintain drug book Maintain Practical record book	Assess performance with rating scale Assess each skill with checklist Evaluation of case study/ presentation Completion of practical record.



General Surgical Ward (GI,urinary CTVS)	6	Provide pre and post operative nursing care to adult patients with surgical disorders Counsel and educate patients and families	 Practice medical surgical asepsis standard safety measures Pre-operative preparation of patients Post operative care receiving pt., assessment, monitoring Care. Care of wounds and drainage Suture removal Ambulation and exercise Naso gastric aspiration Care of chest drainage Ostomy care Gastrostomy Colostomy Enterostomy Blood and component therapy Practice universal 	Plan and give care to 3-4 assigned patients Nursing care plan-02 Nursing Care study/ presentation-1 Drug presentation-1 Maintain drug book Maintain Practical record book	Assess performance with rating scale Assess each skill with checklist Evaluation of case study/ presentation Completion of practical record. Evaluation of care & case plan
			• Practice universal precautions.		



Cardiology ward/	2	Provide nursing care to patients with cardiac disorders	 Physical examination of the cardio vascular system Recording and interpreting ECG 	Plan and give care to 3-4 assigned patients	Assess performance with rating scale
		Counsel and educate patients	• Monitoring of patients	Nursing Care plan-01	Assess each skill with
		and families	Preparation and assisting in noninvasive and invasive diagnostic procedures.	Nursing case study/ presentation/ Health talk-01	checklist Evaluation of case study Evaluation of Nursing care plan Completion of activity record
			Administer cardiac drugs	Maintain drug book Maintain practical	
			• Cardio pulmonary Resuscitation	record book	
			• Teach patients and families		
			 Practice medical and surgical asepsis- standard safety measures 		
Skin & communicable diseases ward	1	Identify skin problems Provide nursing care to patients	Assessment of patients with skin disordersAssist in diagnostic	Plan and give care to 3 assigned patients	Assess performance with rating scale
		with skin disorders and communicable diseases	and therapeutic proceduresAdminister topical	Health talk to patients and families-01	Evaluation health talk/ counseling
	educate p	Counsel and educate patients and families	 medication Practice medical surgical asepsis standard safety measures Use of personal 	Maintain drug book Maintain practical record book	session Completion of practical record
			protective equipment (PPE)		
			 Give medicated baths Counseling HIV Positive patient		
			Teach prevention of infectious diseases		



Orthopedics Ward	2	Provide nursing care to patients with muscular skeletal disorders counsel and educate patient and families	 Assessment of the orthopedic patient Assist in application of plaster cast and removal of cast Apply skin traction buck's extension traction Assist in application and removal of prosthesis Physiotherapy range of motion exercises (ROM), muscle strengthening exercise Crutch maneuvering 	Plan and give care to 3 assigned patients Health talk to patients and families 01 Maintain drug book Maintain practical record book	Assess performance with rating scale Evaluation of Nursing care plan & Nursing case study/ presentation Maintain activity record book
	muscle strengthening				
			Activities of daily livingAmbulation		
			Teach and counsel patients and families		



Operation Theatre	6	Identify instruments Used in common operations Participate in infection control practices in the Operation Theatre Set-up the table/ trolleys for common operative procedures Assist in giving anesthesia Assist in the operative procedures Provide perioperative Nursing Care	 Scrubbing, gowning gloving Identify instruments, suturing materials for common operations. Disinfection, carbolization, fumigation Preparation of instrument sets for common operations Sterilization of sharps and other instruments Prepare the OT table depending upon the operation Positioning and monitoring of patients Endotracheal intubation Assisting in minor and major operations Handling specimens Disposal of waste as per the guidelines 	Assist as a circulatory nurse in Major cases-05 Minor cases-05 Assist as a scrub nurse in Major cases-05 Minor cases-05 Minor cases-05 Maintain drug book	
Clinical Training In ICU, CCU, CARDIAC, OT	nternship 432	Hrs. (9 Weeks) To gain proficiency in ICU nursing Develop advance skill in special procedures used in critical care unit Identify potential problems and provide accordingly Skill in setting and handling ventilator Administer injection in infusion pump Record accurately findings and medications Develop IPR with family members Acquaint with OI technique	 Assist in arterial puncture for blood gas analysis Perform ECG and interpret accordingly Conduct and analysis pulse oximetry Care with artificial airway Assist in endotracheal intubation Setting up ventilator Giving care in ventilator Drug sheet Observation of special procedure in OT. 	Arterial puncture-5 Taking out ECG stripe-5 Tracheal section-5 For all assigned patients Oxygen administration by CPAP mask and use AMBU bag Assessment for all assigned patients Nursing care in ventilator Drug sheet	Record book Checking with supervisor



Neuro ICU, ITU, OT	2	Develop skill in neurological assessment Give care to the pt. with head injury and spinal injury Care with chest surgery and cranial surgery	 Assess neurological status Implement care to head injury spinal injury patients Drug sheet Pre and postoperative care with neurosurgery patients 	Assessment for all assigned patients Nursing care pan-2 Drug sheet	Record book observation checklist
Burns and plastic reconstructive surgery	2	Assess the severity of burns Administer rehydration therapy Observe reconstructive surgery	Nursing care		
OT laproscopic orthopedic fye ENT	3	 Identify instruments Assist in OT set up Supervise sterilization Assist in OT table lay out Observe immediately after operation Supervise infection control 		Assist - 5 cases	Record book

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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT MEDICAL SURGICAL NURSING

Question No.	Question description	Division of marks	Total marks		
1.	Total MCQs: 15	15 x 1	15		
2.	Long Answer Questions (LAQ)	2 x 10	20		
	(Any 2 out of 3)				
3.	Short Notes (8 out of 10)	8 x 5	40		
	a) b) c) d) e) f) g) h) i) j)				
	TOTAL				

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



COMMUNITY HEALTH NURSING - I

Placement : Second Year Time : Theory - 90 hrs

Practical - 135 hrs

Course Description : This Course is designed for Students to appreciate the principles of promotion and maintenance of health.

Unit	Hours	Learning Objectives	Content	Teaching Aids	Evaluation
I	2	Discusses	Introduction	Chalk board	Unit test
		Concept	Community health nursing	Power point	Essay Type
		And dimensions	Definition , concept and		Answers
		of health	dimensions of health		
			Determinants of health		
			Promotion of health		
			Indicators of health		
			Maintenance of health		



II	20	Describe	Determinants of health	Chalk board	Unit test
	_~	determinants	• Eugenics		
		of health &	• Environment :	Power point	Essay Type
		Environment	Physical:	Transparency	Answers
		Environment	• Air, light, Ventilation, water,		Assignment
			Housing Sanitation; disposal of		_
			waste, disposal of dead bodies,		Objective
			Forestation, Noise, Climate		type
			• Communication:		answers
			Infrastructure facilities and		
			Linkage		
			• Act Regulation the		
			environment :National		
			Pollution Control board		
			Bacterial & Viral: Agents,		
			host carriers and immunity		
			Arthropods and Rodents		
			Food hygiene:		
			• Production,		
			• Preservation, Purchase,		
			Preparation,		
			• consumption		
			Acts Regulating Food		
			Hygiene-		
			Prevention of food adulteration		
			acts, Drugs and cosmetic act		
			Socio-Cultural		
			• Customs, taboos		
			Marriage System		
			• Family Structure		
			• Status of special Group;		
			• Females ,Children Elderly,		
			Challenged Groups and Sick		
			persons		
			• Life Style		
			• Hygiene		
			Physical Activity		
			• Recreation and Sleep		
			Sexual life		
			Spiritual life philosophy		
			• Self Reliance		
			Dietary pattern		
			• Education		
			Occupation		
			Financial Management		
			• Income		
			• Budge		
			Purchasing power		
			• Security		
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III	10	Explains	Epidemiology	Charts	Unit test
		concept ,scope, uses, methods, and approaches of epidemology	 Definition, Concept, Aims, scope uses and terminology used in epidemiology used in epidemiology Dynamics of Disease team submission: epidemiological triad 	Graphs Models Slides Powerpoint OHP	Essay Type Answers Assignment Objective type answers
			Morbidity and mortality:		
			Measurements		
			Levels of Prevention		
			Methods of epidemiology of Descriptive		
			Analytical : Epidemic investigation		
			Experimental		



Epidemiology and nursing Management of communicable Diseases Respiratory infections Communicable diseases Communicable Colicken Pox Powerpoint OHP OHP OHP Compunicable Compunicable Tobletor ARIS & Pneumonia OHP OHP Compunicable Tobletor Objective type		l	Ι	I		
and nursing Management of common Common Communicable diseases ARS Pneumonia Models Slides Powerpoint OHP OHP OHP OHP OHP Objective type Objective type Objective type Ohron ohrows type Objective type Ohron ohro	IV	25	Describe	Epidemiology and nursing	Charts	Essay type
and nursing Management of common Communicable diseases Communicable diseases Arthropod infections Diarrhoeal diseases Typhoid Fever Food poisoning Ambediasis Diarrhopod infections Diarrhopod inf			Epidemiology		Graphs	Short
Management of common Communicable diseases Rubella ARIs & Pneumonia ARIS			1 1		_	answers
common Communicable diseases - Chicken Pox - Measles - Influenza - Rubella - ARIs & Pneumonia - Mumps - Diphtheria - Whooping cough - Meningococcal meningitis - Tuberculosis - SARS - Intestinal Infections - Poliomyelitis - Viral Hepatitis - Cholera - Diarrhoeal diseases - Typhoid Fever - Food poisoning - Amoebiasis - Dracunculiasis - Arthropod infections - Dengue - Malaria - Filariasis - Zoonoses - Viral - Rabies - Yellow fever - Japanese encephalitis - Kyasnur Forest Diseases - Bacterial - Robes - Verent Powerpoint - OHP - OHP - OH						Objective
Communicable diseases • Measles • Influenza • Rubella • ARIs & Pneumonia • Mumps • Diphtheria • Whooping cough • Meningococcal meningitis • Tuberculosis • SARS Intestinal Infections • Poliomyelitis • Viral Hepatitis • Cholera • Diarrhoeal diseases • Typhoid Fever • Food poisoning • Amoebiasis • Dracunculiasis Arthropod infections • Dengue • Malaria • Filariasis • Zoonoses Viral • Rabies • Yellow fever • Japanese encephalitis • Kyasnur Forest Diseases Bacterial			Wianagement of		Slides	
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• Leptospirosis				Leptospirosis		
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Rickettsial Zoonoses				Rickettsial Zoonoses		
Scrub typhus				Scrub typhus		
Murine typhus						
• Tick typhus						
• Q fever				• Q fever		



			Parasitic zoonoses Taeniasis Hydatid disease Leishmaniasis Surface infection Trachoma Tetanus Leprosy STD & RTI Yaws HIV & AIDS		
V	10	Describe Epidemiology and nursing management of Common Non- Communicable diseases	Epidemiology and nursing management of Non-communicable diseases Malnutrition: under nutrition, over nutrition, nutritional deficiencies Anemia Hypertension Stroke Rheumatic Heart Diseases Coronary Heart Diseases Cancer Diabetes mellitus Blindness Accidents Mental illness Obesity Iodine Deficiency Fluorosis Epilepsy	Charts Graphs Models Slides Powerpoint OHP Seminar Supervised field Group discussion	Essay type Short answers Objective Type Assignment
VI	6	Discusses the concept scope and methods of demography	 Demography Definition ,concept and scope Demography cycle Methods of data collection, analysis and interpretation of demographic data Demographic rates and ratios 	Powerpoint Chalk board	Essay type Short answers Objective Type



VII	17	Identify the	Population and its Control	Chalk board	Essay type	
		Impact of population explosion	population • Population explosion, its	impact on social, economic development of individual, society and country	Discussion Power point	Short answers Objective Type
			Overall development :Women empowerment, social, economic and educational development			
				Limiting family size:		
			Promotion of small family norms			
			Methods: spacing (natural, biological, chemical, mechanical, etc)			
			Terminal: surgical methods			
			Emergency contraception			



COMMUNITY HEALTH NURSING - I

PRACTICAL

Placement: Second Year Time: 135 hrs

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
Community health nursing	2 wks Urban & 2 wks rural	Build & Maintain report Identify demographic Characteristic, health determinants & community health resources Diagnose health needs of individual & families Provide primary care in health centre Counsel & educate individual family & community	» Use Techniques of interpersonal relationship » Identification of health determinants of community » History taking » Physical examination » Collect specimens sputum malarial smear » Perform simple lab tests at centre-blood for Hemoglobin and sugar, urine for albumin and Sugar » Administer vaccines and medications to adults » Counsel and teach individual, family and community • Nutrition • Hygiene • Self health monitoring • Seeking health services • Healthy life style • Family welfare methods • Health promotions	To work with 2 assigned families each in urban & rural Family study-4 Observation report of community-1 Health talks-2 (1 in urban and in rural)	Assess clinical performance with rating scale Assess each skill with checklist Evaluation of family study observation report health talk Completion of activity record



- 1. K.Park, Textbook of Preventive & Social Medicine- current edition
- 2. K.Park, Essentials of Community Health Nursing
- 3. Raokasturi, An Introduction to Community Health Nursing, I publications.
- 4. Freeman Ruth, Community Health Nursing Practice.
- 5. Stanthope Lancaster, Community Health Nursing Process & Practice, Popular publication.
- 6. BasavantappaB.T.,Community Health Nursing
- 7. Sathe, Epidemiology & management of Heath Care, Popular publication
- 8. Mahajan Gupta, Textbook of Preventive & Social Medicine, Jaypee Publications
- 9. Lancaster, Community Health Nursing Process and Practice for Promoting Health, Mosby Publications.



DISTRIBUTION OF TYPE OF QUESTIONS AND MARKS FOR THE SUBJECT COMMUNITY HEALTH NURSING

Question No.	Question description	Division of Marks	Total Marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ)	2 x 10	20
	(Any2 out of 3)		
3.	Short Notes (8 out of 10)	8 x 5	40
	a) b) c) d) e) f) g) h) i) j)		
	75		

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



COMMUNICATION & EDUCATION TECHNOLOGY

Placement: Second Year Time: Theory 60 hrs.
Practical: 30 Hrs.

Course Description: This course is designed to help the students acquire anunderstanding of the principles and methods of communication and teaching. It helps to develop skill in communicating effectively, maintaining effective interpersonal and human relations, develop basic skills in guidance and counselling, principles of education, teaching individuals and groups in clinical, community and health educational settings.

Unit	Hours	Learning Objectives	Content	Teaching Aids	Evaluation
I	Т 5	Describe the communication process Identify Techniques of effective communication	Review of communication process Process, elements and channels Barriers and methods of overcoming Techniques	Lecture / Discussions Role Plays Exercise with audio-video tapes	Short answers Objective type
II	05	Establish Effective Interpersonal relations with patients, families and co-workers	 Interpersonal relations Purpose and types Phases Barriers to interpersonal relations Methods of overcoming barriers Johari Window 	Lecture /discussions Sociometry Group Games Psychometric exercises followed by discussions	Short answers Objective type
III	Т5	Develop effective Human relations In context of nursing	 Human Relations Understanding self social behavior Social attitudes Individual and Group & Groups and individual Human relations in context of nursing Group Dynamics Team Work 	Lecture / discussions Group Games Psychometric exercises followed by discussions	Short answers Objective type



IV	T 10	Develop	Guidance and	Lecture /	Long/Short
	P=5	basic skills of	counseling	discussions	answers
		counseling and guidance	 Definition, meaning, purpose, scope & need. Basic Principles 	Group Games Psychometric exercises	Objective type Assess lesson
			 Basic Principles Areas of counseling Organization of counseling services Approaches to counseling Attributes and skills of counselor Issues for counseling in nursing students and nursing personnel Counseling process steps & techniques Tools for collecting information Problem solving approaches Management of 	followed by discussions	Assess lesson plans Assess teaching sessions
			crisis and referral		
V	T = 8 P = 5	Describe the Philosophy and principles of education Explain teaching learning process	Principles of Education& Teaching Learning Process - Education: meaning philosophy aims, functions, & principles - Nature & characteristics of learning - Principles and maxims of learning - Domains of objectives & formulation of general and specific objective - Lesson planning Classroom management	Lecture / discussion Exercise on writing objectives Prepare lessons plan Micro teaching	Long/Short answers Objective type Assess lesson plans Assess teaching sessions



VI	T 10 P=15	Demonstrate teaching skills in various teaching methods in clinical, classroom & community settings.	 Methods Of Teaching: Lecture, demonstration Group discussions, Seminar, Symposium, panel discussion, role play. Project method field trip, workshop, exhibition Computer assisted learning programmed instructions Micro- teaching, Evidence based learning Self instructional module, simulation etc. Clinical Teaching Methods: Bedside Clinics, Case Method, Nursing rounds, morning & afternoon reports Conferences: Individual & group, Field visits, process recording 	Lecture discussions Conduct 5 teaching sessions using different methods and media	Long / Short answers Objective type Assess teaching Sessions.
VII	T 7 P=5	Prepare and use different types of educational media effectively	 Educational Media Purpose and types of Audio visual and principles and sources etc. Graphic Aids: Chalk board, Charts graph poster Flash cards, flannel Graph, Bulletin Board, Cartoon Three Dimensional Aids: Objects, specimens, models, & puppets. Printed Aids: Pamphlets & leaflets. Projected Aids: Slides overhead projector transparency preparation Films, T.V. VCR /VCD Camera, Microscope, LCD, DVD Audio Aids: Tape recorder, public address system Computer 	Lecture discussion Demonstration Prepare different teaching aids projected and non - projected Prepare a programme for the given topic Visit to dept of communication, & educational technology	Long/ Short answer Objective type Assess the teaching aids prepared



VIII	T 5 P = 5	Prepare different types of questions for assessment of knowledge, skills, and attitude	 Assessment Purpose & scope of evaluation & assessment Criteria for selection of assessment technique and methods. Assessment of knowledge: Essay Type Questions, Short answer questions (SAQ), Multiple choice questions (MCQ) Assessment Of Skills Observation checklist, Practical exam, Viva, Objective Structured, Clinical examination (OSCE) Assessment of Attitudes: Attitude Scales 	Lecture discussion Exercise on writing different types of assessment tools	Long / Short answer Objective type Assess the strategies used in practice teaching Assess the different tools, prepared during exercise sessions.
1X	05	Teaching individuals groups and communities about health with their active participation	Information, Education & Communication for Health (IEC) • Health behavior and health education • Principles of health education • Health education with individuals, groups and communities • Methods and media for communicating health messages. • Using mass media • Planning health education.	Lecture discussion Plan and conduct Health education sessions for individual group and communities	Short answers Objective Type

- 1. Bhatia, Kamala & Bhatia B.D.: The Principles and Methods of Teaching: Delhi, Doaba House, 1977.
- 2. Neeraja, Nursing Education, New Delhi, Jaypee Brother, 2004.
- 3. Safaya, Raghunath&Shaida, B.D. Educational Theory & Practice, Delhi, Dhanpat Row & Sons, 1974.
- 4. Bhatia, Hans Raj Elements of Educational Psychology, Bombay, QnentConpman, 5th ed. 1973.
- 5. Basvanthappa Textbook of Nursing Education, Jaypee publications; New Delhi
- 6. Suresh K Sharma Communication and education Technology, Jaypee Publications; New Delhi



DISTRIBUTION OF TYPE OF QUESTIONS AND MARKS FOR THE SUBJECT COMMUNICATION EDUCATION TECHNOLOGY

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs: 15	15 x 1	15
2.	Long Answer Questions (LAQ)	2 x 10	20
	(Any 2 out of 3)		
3.	Short Notes (8 out of 10)	8 x 5	40
	a) b) c) d) e) f) g) h) i) j)		
	75		

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



ENVIRONMENTAL SCIENCE

Placement: Second year Time: Theory – 50 hours

Course Description : The purpose of this course is to acquire knowledge and proficiency in Environmental science in health care and natural settings.

Unit	Hours	Learning Objectives	Content	Teaching Learning Activity	Assessment method
1	02	Describe the multidisciplinary nature of environmental studies and importance	 Unit 1: Introduction to environmental studies Multidisciplinary nature of environmental studies; components of environment – atmosphere, hydrosphere, lithosphere and biosphere. Scope and importance; Concept of sustainability and sustainable development. 	Lecture Discussion Explain using Charts, graphs Models, films, slides seminar Health education	Essay type Short answers Objective type
2	06	Discuss & describe the ecosystem Discuss the types of ecosystem	Unit 2 : Ecosystems What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chain, food web and ecological succession. Case studies of the following ecosystems: • Forest ecosystem • Grassland ecosystem • Desert ecosystem • Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)	Lecture Discussion Explain using Charts, using Models, films. slides Practice session Case studies/ seminar	Essay type Short answers Objective type



3	08	Explain and discuss the Natural resources Describe the renewable and non-renewable resources	Unit 3: Natural Resources: Renewable and Non-renewable Resources • Land Resources and land use change; Land degradation, soil erosion and desertification. • Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. • Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state). • Heating of earth and circulation of air; air mass formation and precipitation. • Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies.	Lecture discussion Explain using Charts, graphs Models, films, slides Demonstration Practice session	Essay type Short answers Objective type Assessment of Skills with check list
4	08	Discuss about the levels of bio adversity Discuss about the threats to Bio adversity	 Unit 4: Biodiversity and Conservation Levels of biological diversity :genetic, species and ecosystem diversity; Biogeography zones of India; Biodiversity patterns and global biodiversity hot spots India as a mega-biodiversity nation; Endangered and endemic species of India Threats to biodiversity: habitat loss, poaching of wildlife, manwildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value. 	Lecture discussion Explain using Charts, graphs Models, films, slides Practice session Case studies/ Seminar	Essay type Short answers Objective type Assessment of skills with check list



5	08	Discuss about environmental pollution	Unit 5 : Environmental Pollution • Environmental pollution : types, causes, effects and controls; Air, water, soil, chemical and noise pollution • Nuclear hazards and human health risks • Solid waste management: Control measures of urban and industrial waste • Pollution case studies.	Lecture discussion Explain using Charts, graphs Models, films, slides Practice session Case study/ Seminar	Essay type Short answers Objective type
6	07	Describe about climate change Explain the environmental laws	 Unit 6: Environmental Policies & Practices Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; International agreements; Montreal and Kyoto protocols and conservation on Biological Diversity (CBD). The Chemical Weapons Convention (CWC). Nature reserves, tribal population and rights, and human, wildlife conflicts in Indian context 	Lecture discussion Explain using Charts, graphs models, films, slides Demonstration Practice session Case Study / Seminar	Essay type Short answers Objective type



7	06	Discuss about the Impact of human population on environment Discuss on Disaster management	 Unit 7: Human Communities and the Environment Human population and growth: Impacts on environment, human health and welfares. Carbon foot-print. Resettlement and rehabilitation of project affected persons; case studies. Disaster management: floods, earthquakes, cyclones and landslides. Environmental movements: Chipko, Silent valley, Bishnios of Rajasthan. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation. Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi). 	Lecture discussion Explain using Charts, graphs models, films, slides Demonstration Practice session Case Study / Seminar	Short answers Objective type
8	05	Visit to environmental assets, polluted areas, simple ecosystems	 Unit 8: Field work Visit to an area to document environmental assets; river/ forest/flora/fauna, etc. Visit to a local polluted site – Urban/Rural/Industrial/ Agricultural. Study of common plants, insects, birds and basic principles of identification. Study of simple ecosystemspond, river, Delhi Ridge, etc. 	Educational Field visits Lecture Discussion	Visit report & presentation

- 1. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
- 2. Gadgil, M., &Guha, R.1993. This *Fissured Land:* An Ecological History of India. Univ. of California Press.
- 3. Gleeson, B. and Low, N. (eds.) 1999. Global Ethics and Environment, London, Routledge.



- 4. Gleick, P.H. 1993. Water in *Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- 5. Groom, Martha J. Gary K. Meffe, and Carl Ronald carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
- 6. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. Science, 339: 36-37.
- 7. McCully, P.1996. Rivers no more: the environmental effects of dams(pp. 29-64). Zed
- 8. McNeil, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.



DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT ENVIRONMENTAL SCIENCE

Question No.	Question description	Division of Marks	Total Marks
1.	Total MCQs	15 x 1	15
2.	Long Answer Questions (Any 2 out of 3)	2 x 10	20
	a) b) c)		
3.	Short Notes (8 out of 10)	8 x 5	40
	a) b) c) d) e) f) g) h) i) j)		
	TOTAL	75	

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions : 3 question will be given out of which, 2 has to be answered. Bitwise questions may be asked.
- 3. Short Notes: 10 questions will be given out of it 8 has to be answered.



MEDICAL SURGICAL NURSING

(Adult including Geriatrics) –II

Placement: B.Sc (N) Third year **Time:** Theory-120 hrs

Practical- 270 hrs

Course Description : The purpose of this course is to acquire knowledge and proficiency in caring for patients with medical and surgical disorders in varieties of health care settings and at home.

Unit	Hours	Learning Objectives	Content	Teaching Aids	Evaluation
I	15	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of of Ear Nose and Throat	Nursing management of patient with disorders of Ear Nose and Throat Review of anatomy and Physiology of the Ear Nose and Throat Nursing Assessment- History and Physical assessment Etiology, path physiology, clinical Manifestations, diagnosis, treatment modalities and medical & Surgical nursing management of Ear Nose and Throat disorders: External ear: Deformities otalgia, foreign bodies, and tumours Middle Ear Impacted wax, Tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumours Inner ear- meniere, Disease, labyrinthitis, ototoxicity, tumours Upper airway infections — Common cold, sinusitis, Rhinitis, Pharyngitis, Tonsillitis and Adenoiditis, Peritonsilar abscess, Laryngitis Upper respiratory airway- Epistaxis, Nasal obstruction, laryngeal obstruction, Cancer of the larynx Cancer of the oral cavity Speech defects and speech therapy Deafness- Prevention, control and rehabilitation Hearing aids, implanted hearing Devices Special therapies Nursing procedures Drugs used in treatment of disorders of ear nose and throat Role of nurse Communicating with Hearing impaired and muteness. Oesophaostomy, Tracheostomy,	lecture discussion explain using charts and graphs model, Films, Slides, Demonstration Practice session Case discussion/ Seminar Health education Supervised clinical practice Drug book / Presentation	Unit test Essay Type



II	15	Describe the	Nursing management of patient	Lectures &	Essay type
"	13	etiology, path	with disorders of eye	Discussion	
		physiology,	Review of anatomy and	Charts graphs	Short answers
		clinical manifestations	physiology of the eye-Nursing assessment – history	models, films	Objective type
		diagnostic	and Physical assessment,	and slides	
		measures and	Etiology, pathophysiology,	Demonstrations	Assessment of skill with
		management of patients with	clinical manifestations, diagnosis, treatment,	Practice session	check list
		disorders of eye	modalitites, medical and surgical nursing management of eye disorders:	Case discussions/ Seminar	Assessment of patient
			Refractive errors	Health education	management problem
			Eyelids-inflammation and Infection and deformities	Supervised clinical practice	prootem
			Conjuctiva – inflammation and infection, bleeding	Drug book/ presentation	
			Cornea- inflammation and Infection	Visit to Eye bank	
			Lens-Cataracts, Glaucoma	Participation in	
			Disorder of the uveal tract,	eye camps	
			Ocular tumours		
			Disorders of posterior chamber and retina : retinal and vitreous problems		
			Retinal detachment		
			Ocular emergencies and their Prevention		
			Blindness		
			National blindness control program		
			Eye Banking		
			Eye prostheses and rehabilitation		
			Role of a nurse - Communication with visually impaired patient,		
			• Eye camps		
			Special therapies		
			Nursing procedures: eye irrigation, assisting with removal of foreign body.		
			Drugs used in treatment of disorders of eye		



III	16	Describe the etiology, patho physiology clinical manifestations, diagnostic measures and nursing management of patients with neurological disorders	Nursing management of patient with neurological disorders Review of anatomy and physiology of the neurological system Nursing Assessment History and physical and neurological assessment and Glasgow coma scale Etiology, Path physiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of neurological disorders Congenital malformations Headache Head Injuries Spinal injuries Paraplegia Hemiplegia Quadraplegia Spinal cord compression Herniation of Intervertebral disc Tumours of the brain & spinal cord Intra cranial and cerebral aneurysms Infections: Meningitis, Encephalitis, brain abscess, neurocysticercosis Movement disorders: Chorea Seizures / Epilepsy Cerebro vascular accidents (CVA) Cranial / spinal neuropathies — Bell's palsy, trigeminal neuralgia, Peripheral	Lectures & Discussion Charts, graphs models, films and slides Demonstratons Practice sessions Case discussions / Seminar Clinical Practice Drug book/ presentation Visit to rehabilitation centre	Essay type Short answers Objective type Assessment of skills with check list Assessment of Patient management Problem
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	Neuropathies; Guillan-Barr'e Syndrome	
	Myasthenia gravis Multiple sclerosis,	
	Degenerative diseases, Peripheral neuritis TIA	
	Delirium Dementia	
	Alzheimer's disease	
	Parkinson's disease	
	Management of unconscious patients and patients with stroke	
	Drugs used in treatment of neurological disorders	
	Role of the nurse in communicating with patient having neurological deficit	
	Rehabilitation of patients with neurological deficit	
	Role of nurse in long stay facility (institutions) and at home	
	• Special therapies	
	• Nursing procedures: GCS, assisting with diagnostic procedures and rehabilitation	
	Drug used in treatment of neurological disorders	



t F C C T C T C C T C T C C T C T C C T	Describe the etiology, pathophysiology clinical manifestation, diagnostic measures and nursing management of patients with disorders of female reproductive system. Describe concepts of reproductive health and family welfare\ programmes	Nursing management of patient with disorders of female reproductive system Review of anatomy and physiology of the female reproductive system Nursing assessment-history and physical assessment Breast self examination Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of disorder of female reproductive system Congenital abnormalities of female reproductive system Congenital abnormalities of female reproductive system Sexuality and Reproductive Health Sexual Health Assessment Menstrual Disorders-Dysmenorrhea, Amenorrhea, Premenstrual Syndrome Abnormal Uterine Bleeding; Menorrhagia, Metrorrhagia Pelvic inflammatory disease- Ovarian and fallopian tube disorders; Infections Cysts, Tumours Uterine and cervical disorders; Endometriosis, polyeps, Fibroids, Cervical and uterine tumours, Uterine displacement, Cystocele/ urethrocele/ rectocele Vaginal disorders; Infections and Discharges, fistulas Vulvur disorders; Infection,	Lectures & Discussion Charts, Graphs models, films and slides Demonstrations Practice sessions Case discussions Seminars Clinical practice Drug book Health Education Supervised clinical practice Drug Book / Presentation	Essay type Short answers Objective Type Skill assessment with check list Asessment of patient management
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Diseases of breast Deformities
Infections Cysts and Tumours
Menopause and hormonal replacement therapy
Infertility
Contraception; types methods, risk and effectiveness
Spacing methods barrier methods intrauterine devices hormonal, post conceptional methods etc. terminal methods sterilization
Temporary and
• Permanent
Emergency contraception methods
Abortion-natural, medical and surgical abortion-MTP Act
Toxic shock Syndrome
Injuries and trauma; sexual violence
Drugs used in treatment of gynaecological disorders
Special therapies - vaginal douche, PAP smear
Nursing procedures- self examination of breast.
Drug used in treatment of gynaecological disorders
National family welfare programme



V	10	Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and nursing management of patients with burns, reconstructive and cosmetic surgery	Nursing management of patients with Burns, reconstructive and Cosmetic surgery Review of anatomy and physiology of the skin and connective tissues and various deformities Nursing assessment-History and physical examination & assessment Burns and fluid and electrolyte loss Etiology, Classification, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical and nursing management of Burns and reconstructive and cosmetic surgery with special emphasis of fluid replacement therapy. Types of reconstructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes Role of nurse Legal Aspects, Rehabilitation Special therapies Psycho social aspects Nursing procedures Drug used in treatment of burns reconstructive and cosmetic surgery	Lectures & Discussion Explain charts, graphs, models, films and slides Demonstrations Practice sessions Case discussions/Seminars Health education Clinical practice Drug book/presentation	Essay type Short answers Objective type Skill assessment with check list assessment of patient management
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VI	10	Describe the etiology, patho physiology, clinical manifestations, diagnostic measures and nursing management of patients with oncology	Nursing management of patients with oncological conditions Structure & characteristics of normal & cancer cells Nursing Assessment-history and physical assessment Prevention, Screening for early detection, warning signs of epidemiology. etiology, classifications, pathophysiology, staging, clinical manifestations, diagnosis treatment modalities and medical, surgical & nursing management of oncological conditions Common malignancies of various body system; Oral cavity, larynx lung stomach and colon liver, leukaemias and lymphoma, Breast, cervix, ovary, uterus, renal, bladder, prostate gland etc. Oncological emergencies. Treatment Modalities — Immunotherapy Chemotherapy, Radiotheraphy Surgical interventions Stem cell & Bone Marrow transplants. Gene therapy others forms of treatment Psychosocial aspects of cancer Rehabilitation & Palliative care Management — nutritional support Home care, Hospice care, Stomal Therphy,	Lectures & Discussion Explain using charts, graphs models, films and slides Demonstrations Practice sessions Case discussions/Seminars Health education Supervised Clinical practice Drug book/presentation	Essay type Short answers Objective type assessment of Skills with check list Assessment of patient management problem
			support Home care, Hospice		



VII	10	Describe organization of emergency and disaster care services Describe The role of nurse in disaster management Describe The role of nurse In management of common Emergencies	Nursing management of patient in emergency & disaster situations DISASTER NURSING: Concepts and principles of Disaster Nursing Causes and types of disaster: Natural and manmade Earthquakes, floods, epidemics, Cyclones fire, Explosion, Accidents Violence, Terrorism; Bio-chemical war Policies related to emergency/disaster Management; International, national, state, institutional Disaster preparedness: Team, guidelines, protocols, equipments, resources Coordination and involvement of community, various government departments, nongovernment organizations and International agencies Role of nurse, working Legal aspects of disaster nursing Impact on Health and after effects; post Traumatic Stress Disorder Rehabilitation; physical, Psychosocial Social, Financial, Relocation Emergency Nursing Concept, priorities principle and Scope of emergency nursing Organization of emergency services: physical setup, staffing, equipment and supplies, protocols, Concepts of triage and role of triage nurse	Lecture discussion Explain using Charts, graphs Models, films, slides Demonstration Practice session Case discussion/seminar Health education Supervised clinical practice Disaster management drills Drug book/presentation	Essay type Short answer Objective type Assessment of skills with check list Assessment of patients management problem



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	 Coordination and involvement of different departments and facilities Nursing Assessment-History and physical assessment Etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of patient with medical and surgical Emergency Principles of emergency management Common Emergencies Respiratory Emergencies Cardiac Emergencies Shock and Haemorrhage Pain Poly-Trauma, road accidents, crush Injuries, wound Bites Poisoning; Food, Gas, Drugs & chemical poisoning Seizures Thermal Emergencies; Heat stroke & Cold injuries Pediatric Emergencies Psychiatric Emergencies Psychiatric Emergencies Violence, Abuse, Sexual assault Cardio pulmonary Resuscitation Crisis Intervention 		
	 Crisis Intervention Role of the nurse; Communication And inter personal Relation 		
	Medico-legal Aspects;		



VIII	10	Explain the concept and problems of aging Describe nursing care of the elderly	 Nursing care of the elderly Nursing Assessment-History and physical assessment Ageing; Demography; Myths and realities Concepts and theories of ageing Cognitive Aspects of Ageing Normal biological ageing Age related body systems changes Psychosocial Aspects of Aging Medications and elderly Stress & coping in older adults 	Lecture discussion Explain using Charts, graphs Models, films,slides Demonstration Practice session Case discussion / seminar Health education Supervise	Essay type Short answer Objective type Assessment of skills With check list Assessment of patients management problem
		Describe nursing	 and physical assessment Ageing; Demography; Myths and realities Concepts and theories of ageing Cognitive Aspects of Ageing Normal biological ageing Age related body systems changes Psychosocial Aspects of Aging Medications and elderly Stress & coping in older 	Charts, graphs Models, films,slides Demonstration Practice session Case discussion / seminar Health education	Objective type Assessment of skills With check list Assessment of patients management



 CPR – advance cardiac life support Treatments of procedures Transitional care Ethical and legal aspects Communication with patient and family Intensive care records Death and dying coping with Drug used in critical care unit 	 Infection Control protocols Nursing management of critical ill patient Monitoring of critical ill patient CPR – advance cardiac life support 	IX Describe organization of critical care units Describe the role of nurse in management of patients critical care units Describe the role of nurse in management of patients critical care units Nursing Assessment-History and Physical assessment, Classification Principles of critical care nursing Organization; physical setup, Policies, staffing norms. Protocols, equipment and Supplies Protocols, equipments; ventilators, cardiac monitors, defibrillators, Resuscitation equipments Supervised Essay type discussion Explain using Charts, graphs Models, films, slides Demonstration Role plays counselling Practice session Case discussion/ Seminar Health education Resuscitation equipments Resuscitation equipments Resuscitation equipments
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X	8	Describe the etiology, pathophysiology, clinical	Nursing management of patient adults including elderly with occupational and industrial disorders	
		manifestations, assessment, diagnostic	Nursing Assessment-History and physical assessment	
		measures and management of patients with occupational and industrial health disorder	Etiology,pathophysiology, Clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of occupational and industrial health disorders	
			Role of nurse	
			• Special therapies, alternative therapies	
			Nursing procedures	
			Drugs used in treatment of Occupational and industrial disorders	



MEDICAL SURGICAL NURSING (Adult and Geriatrics) - II Practical

Placement: B.Sc. (N) Third Year Time: Theory - 120 hrs

Practical - 270 hrs

Internship - 240 hrs (5 weeks)

Areas	Duration (in week)	Objectives	Skills	Assignments	Assessment Methods
ENT Ward	1	Provide care to patients with ENT disorders Counsel and educate patient 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 	Provide care to 2-3 assigned patients Nursing Care plan-1 Observation reports of OPD Maintain drug book	Assess each skill with checklist Assess performance with rating scale Evaluation of observation report of OPD Completion of activity record
Ophthalmology Ward	1	Provide care to patients with Eye disorders	 Perform examination of eye Assist with diagnostic procedures Assist with therapeutic procedures Perform/assist with Irrigations Eye bandage Eye/drops/ointments Foreign body removal Teach patients and families 	Provide care to 2-3 assigned patients Nursing care plan-1 Observation reports of OPD & Eye bank Maintain drug book	Assess each skill with checklist Assess performance with rating scale Evaluation of observation report of OPD/Eye bank Completion of activity record



Neurology Ward	1	Provide care to patients with neurological disorders Counsel and educate patient and families	examination ass Use Glasgow coma pate scale Assist with diagnostic procedures Assist with therapeutic procedures Teach patient and	ovide care to signed 2-3 skill with checklist checklist Assess performance with rating scale esentation -1 aintains drug ook Health caching-1 Assess each skill with checklist Assess performance with rating scale Evaluation of case study & Health Completion of activity record
Gynecology Ward	1	Provide care to patients with gynecological disorders Counsel and educate patients and families	 Assist with gynecological examination Assist with diagnostic procedures Assist with pla Assist with therapeutic 	ovide care to 3 assigned skill with checklist Assess performance with rating scale Evaluation of care plan Completion of activity record



Burns Unit	1	Provide care to patients with Burns	 Assessment of the burns patient Percentage of burns Degree of burns Fluid & electrolyte replacement therapy Assess Calculate Replace Record intake/output Care of Burn wounds Bathing Dressing Perform active & passive exercises Practice asepsis surgical asepsis Counsel & Teach patients and families Participate in rehabilitation	Provide care to 1-2 assigned patients Nursing care plan-1 Observation report of Burns unit	Assess each skill with checklist Assess performance with rating scale Evaluation of care plan Completion of activity record
			rehabilitation program		



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Oncology Unit	Provide care to patients with cancer counsel and educate patient and families	Screen of common cancers-TNM classification Assist with diagnostic procedures Biopsies PAP smear Bone-Marrow aspiration Breast examination Assist with therapeutic Procedures Participates in various modalities of treatment Chemotherapy Radiotherapy Brain management Stoma therapy Hormonal therapy Gene Therapy Alternative therapy Alternative therapy Participate in palliative care Counsel and teach patients families Self breast examination Warning signs Participate in rehabilitation program Brovide care to 2-3 assigned patients Nursing care plan-1 Provide care to 2-3 assigned patients Nursing care plan-1 Sursing care plan-1 Provide care to 2-3 assigned patients Nursing care plan-1 Sursing care plan-1



Critical Care Unit	2	Provide care to critically ill patients Counsel and families for grief and bereavement	 Monitoring of patients in ICU Maintain flow sheet Care of patient on ventilators Perform Endotracheal suction Demonstrates use of ventilators, cardiac monitors etc. Collect specimens Provide ca to 1 assign patient Observation report of Critical car unit Drugs look	skill with checklist Assess performance with rating scale
			analysis Assist with arterial puncture Maintain CVP line Pulse oximetry CPR-ALS Defibrillators Pace makers Bag-mask ventilation Emergency tray/ trolly-Crash cart Administration of drugs Infusion pump Epidural Intra thecal Intracardiac Total parenteral therapy Chest physiotherapy Perform active & passive exercise Counsel the patient and family in dealing with grieving and bereavement	of activity record



Causality/ Emergency unit	1	Provide care to patients in emergency and disaster situation Counsel patient and families for grief and bereavement	••••••	Practice 'triage' Assist with assessment examination, investigations & their interpretations, in emergency and disaster situations Assist in documentations Assist in legal procedures in emergency unit Participate in managing crowd Counsel patient and Families in grief and bereavement	Observation report of Emergency Unit	Assess Performance with rating scale Evaluation of observation report Completion of activity record
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Placement: Internship

Area	Duration (In week)	Objective	Skills	Assessment
Medical ward	1	Provide comprehensive care	Integrated	Assess clinical
Surgical ward	1	to patients with medical and	Practice	performance
Critical care unit/ICCU	1	surgical conditions including		with rating
Casualty/ Emergency	1	emergencies Assist with		scale
Operation Theatre	1	common operations.		
(Eye, ENT, Neuro)				

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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT MEDICAL SURGICAL NURSING

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ)	2 x 10	20
	(Any2 out of 3)		
3.	Short Notes (8 out of 10)	8x5	40
	a) b) c) d) e) f) g) h) i) j)		
	75		

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



CHILD HEALTH NURSING

Placement: B.Sc. (N) Third Year. Time: Theory - 90 hrs.

Practical: 270 hrs.

Internship: 144 hrs (3 weeks)

Course Description: This course is designed for developing an understanding of themodern approach to child-care, identification, prevention and nursing management of common health problems of neonates and children.

Unit	Hours	Specific Objectives	Content	Teaching learning activities	Assessment methods
I	15	Explain the modern concept of child care & principles of child health nursing. Describe national policy progammes& legislations in relation to child health & welfare. List major causes of death during infancy, early & late childhood. Describe the major functions & role of the paediatric nurse in caring for a hospitalized child. Demonstrate various paediatric nursing procedures	 Introduction: Modern concept of child care. Introduction to modern concept of child care & history, principles & scope of child health nursing. Internationally accepted rights of the Child National policy & legislations in relation to child health & welfare. National programmes related to child health & welfare. Agencies related to welfare services to the children. Changing trends in hospital care, preventive, promotive & curative aspects of child health. Child morbidity & mortality rates. Differences between an adult & child. Hospital environment for a sick child. Impact of hospitalization on the child & family. Grief & bereavement. The role of a child health nurse in caring for a hospitalized child. Principles of pre & post-operative care of infants & children. Child health nursing procedures. 	Lecture Discussion Demonstration	MCQ's Short answers questions Long answers questions Checklist for procedures



II	20	Describe the	The healthy child	Lecture	MCQ's
	20	normalgrowth & development of children at	Principles of growth & development.	Discussion Developmetal	Short answers
		differentages	• Factors affecting growth & development.	study Field visit	questions Long answers questions
		Identify the needs of children at different ages&	Growth & development from birth to adolescence		
		provide parental guidance	• The needs of normal children through the stages		
		Identify the nutritionalneeds of children at different ages & ways ofmeeting the needs. Appreciate the role ofplay for normal & sick children. Appreciate the preventive measures & strategies for children.	of developmental & parental		
			• Nutritional needs of children & infants:		
			 Breast feeding, supplementary & artificial Feeding & weaning. 		
			Baby friendly hospital concept.		
			 Accidents: causes & prevention. 		
			• Value of play & selection of play material.		
			• Preventive immunization, immunization programme& cold chain.		
			• Preventive pediatrics		
			• Care of under five& under five clinics/ well baby clinic.		



III	15	Provide care to normal& high risk neonates. Perform neonatal resuscitation. Recognize & managecommon neonatal problems.	 Nursing care of a neonate. Nursing care of a normal newborn / Essential newborn care. Neonatal resuscitation. Nursing management of a low birth weight baby & high risk babies. Kangaroo mother care. Organization of neonatal 	Lecture Discussion Demonstration	MCQ's Short answers questions Long answers questions Checklist for procedures
			 unit. Identification & nursing management of common neonatal problems. Nursing management of babies with common congenital malformations. Control & prevention of infection in N.I.C.U. 		
IV	10	Explain the concept of IMNCI & other health strategies initiated by National population policy 2000.	 Integrated management of neonatal & childhood illnesses (IMNCI). Health strategies: National population policy- RCH camps & RCH outreach schemes. Operationalization of district newborn care, home based neonatal care. Border district cluster strategy. Integrated management of infants & children with illnesses like diarrhea, A.R.I., malaria, measles & Malnutrition. Nurses' role: IMNCI. 	Lecture Discussion	MCQ's Short answers questions Long answers questions



V	20	Provide nursing	Nursing management in	Lecture	MCQ's
		care in common childhood diseases.	 common childhood diseases- Nutritional deficiency disorders. 	Discussion	Short answers questions
		Identify measures to prevent common childhood diseases including immunization.	 Respiratory disorders & infections. Gastro-intestinal infections, infestations, & congenital disorders. 		Long answers questions
			 Cardio-vascular problems: congenital defects & rheumatic fever, rheumatic heart disease. 		
			• Genito-urinary disorders: acute glomerulo nephritis,nephrotic syndrome, Wilm's tumour, infections, calculi, & congenital disorders.		
			 Neurological infections & disorders: convulsions, meningitis, hydrocephalus, head injury. 		
			Hematological disorders: anemias, thalassemia, ITP, leukemia, hemophilia.		
			• Endocrine disorders: juvenile diabetes mellitus & other diseases.		
			 Orthopaedic disorders: club feet, hip dislocation & fracture. 		
			• Disorders of skin, eye & ears.		
			Common communicable diseases in children, their identification, nursing care in hospital & home & prevention.		
			Child health emergencies: poisoning, haemmorrhage, burns & drowning.		
			 Nursing care of infant and children with HIV /AIDS 		



VI	10	Manage the child with behavioral &	Management of behavioural & social Problems in children.	Lecture Discussion	MCQ's Short
	social problems	social problems	Management of common behavioural disorders.	Field visit	answers questions
			Management of common psychiatric problems.		Long answers
			Management of challenged children:		questions
			 Mentally, physically, & socially challenged. 		
			Welfare services for challenged children in India.		
			• Child guidance clinics.		



CHILD HEALTH NURSING

PRACTICAL

Placement: B.Sc. (N) Third Year. Time: 270 hrs (9 weeks)

Fourth year Internship: 144 hrs (3 weeks)

Area	Duration (In week)	Objective	• Skills	Assessment	Assessment methods
Pediatric medicine ward	3	Provide nursing care to children with various medical disorders	 Taking pediatric history Physical examination and assessment of children Administration of oral IM/IV medicine and fluids Calculation of fluid requirements Prepare different strengths of IV fluids Apply restraints Administer O2 inhalation by different methods Give baby bath Feed children by katori, spoon etc. Collect specimens for common investigations Assist with common diagnostic procedures Teach mothers/parents Malnutrition Oral rehydration therapy Feeding and weaning Immunization schedule Play therapy Specific disease conditions 	Give care to three assigned paediatrics patients Nursing care plan-1 Case study/ Presentation-1	Assess clinical performance with rating scale. Assess each skill with checklist Evaluation of case study/ presentation and health education session. Completion of activity record



Pediatric surgery ward	3	Recognize different pediatric conditions/malformations Provide pre and post operative care to children with common pediatric surgical conditions/malformation Counsel and educate parents	 Calculate, prepare and administer IV fluids Do bowel wash Care for ostomies: Colostomy irrigation Ureterostomy Gastrostomy Enterostomy Urinary catheterisation and drainage Feeding Care of surgical wounds Suture removal 	Give care to three assigned pediatric surgical patients Nursing care plan-1 Case study/ presentation-1	Assess clinical performance with rating scale. Assess each skill with checklist Evaluation of case study/ presentation and health education session. Completion of activity record
Pediatric OPD/ immunization room	1	Perform assessment of children: Health, developmental and anthropometric Perform immunization Give health education/ nutritional education	 Assessment of children Health assessment Developmental assessment Anthropometric assessment Immunization Health/ Nutritional education 	Developmental study-1	Assess clinical performance with rating scale Completion activity record.
Pediatric medicine and surgery ICU	1+1	Provide Nursing care to critically ill children	 Care of a baby in incubator/ warmer Care of child on ventilator. Endotracheal suction Chest physiotherapy Administer fluids with infusion pump. Total parenteral nutrition Phototherapy Monitoring of babies Cardio pulmonary resuscitation 	Nursing care plan-1 Observation report - 1	Assess clinical performance with rating scale Completion of activity record Evaluation of observation report



Clinical Training (Internship)

Area	Duration (In week)	Objective	Skills	Assessment
Pediatric medicine ward/ ICU	1	Provide comprehensive care to children with medical conditions	Integrated practice	Assess clinical performance with rating scale
Pediatric surgery ward/ ICU	1	Provide comprehensive care to children with surgical conditions	Integrated practice	Assess clinical performance with rating scale
NICU	1	Provide intensive care to neonates	Integrated practice	Assess clinical performance with rating scale

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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT CHILD HEALTH NURSING

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ) (Any2 out of 3)	2 x 10	20
3.	Short Notes (8 out of 10) a) b) c) d) e) f) g) h) i) j)	8 x 5	40
	75		

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



MENTAL HEALTH NURSING

Placement : Third Year Time : Theory- 90 hrs

Practical – 270 hrs

Internship - 96 hrs (2 weeks)

Course Description: This course is designed for developing an understanding of the modern approach to mental health, identification, prevention and nursing management of common mental health problems with special emphasis on therapeutic interventions for individuals, family and community.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching learning Activities	Assessment Methods
I	4	Describe to historical development & current trends in mental health nursing Describe the epidemiology of mental health problems Describe the National Mental Health Act, programmes and mental health policy. Discuss the scope of mental health nursing	 Introduction Perspectives of Mental Health and Mental Health Nursing, evolution of mental health services, treatments and nursing practices. Prevalence and incidence of mental health problems and disorders Mental health acts National Mental Health policy vis a vis National Health Policy. National mental Health Programme Mental Health team Nature and scope of mental health nursing Role and functions of mental health nurse in various settings and factors affecting the level of nursing practice Concepts of normal and abnormal behaviour 	Lecture cum discussion	MCQ's Long Essay Short Essay Assessment of the field visit reports



II	5	Define the various terms used in mental health nursing. Explains the classification of mental disorders. Explain psychodynamics of maladaptive behaviour Discuss the etiological factors, psychopathology of mental disorders. Explain the Principles and standards of Mental Health Nursing. Describe the conceptual models of mental	 Principles and Concepts of Mental Health Nursing Definition: mental health nursing and terminologies used Classification of mental disorders: ICD, DSM, Indian Review of personality development, defense mechanisms. Maladaptive behaviour of individuals and groups: stress, crisis and disaster(s). Etiology: Bio-Psycho-social factors. Psychopathology of mental disorders: review of structure and functions of brain, limbic system and abnormal neuro transmission. Principles of Mental health nursing. Standards of Mental Health nursing practice. Conceptual models and the role of nurse: Existential Model Psycho-analytical models. Behavioural models Interpersonal model 	Lecture cum discussion Explain using Charts. Review of personality development	MCQ's Long Essay Short Essay
		conceptual models of mental health nursing.	Behavioural models.Interpersonal model.		
III	6	Describe nature, purpose and process of assessment of mental health status	 Assessment of Mental Health Status History taking Mental status examination Mini mental status examination. Neurological examination: Review. Investigations: Related Blood chemistry, EEG, CT & MRI Psychological tests Role and responsibilities of nurse. 	Lecture cum Discussion Demonstration Practice session Clinical Practice	MCQ's Long Essay Short Essay Assessment of skills with checklist



IV	5	Identify therapeutic communication techniques Describe therapeutic relationship Describe therapeutic impasse and its intervention.	 Therapeutic communication and nurse-patient relationship Therapeutic communication: types, techniques, characteristics Types of relationship Ethics and responsibilities Elements of nurse patient contract (relationship) Review of technique of IPR-by johari Window model Goals phases, tasks therapeutic techniques. Therapeutic impasse and its intervention 	Lecture cum discussion Demonstration Role play Process recording	MCQ's Long Essay Short Essay
V	14	Explain treatment modalities and therapies used in mental disorders and role of the nurse.	 Treatment modalities and therapies used in mental disorders. Psycho Pharmacology Psychological therapies; therapeutic community, psycho therapy-individual; psycho-analytical, cognitive & supportive family, Group, Behavioral, Play Psycho-drama, Music, Dance, Recreational and light therapy, Relaxation therapies: Yoga, Meditation, bio feedback. Alternative systems of medicine. Occupational therapy. Physical convulsive therapy. Geriatric considerations Role of nurse in above therapies. 	Lecture cum Discussion Demonstration Group Work Practice Session Clinical Practice	Essay type Short essay MCQ's



VI	5	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with Schizophrenia, and other psychotic disorders	 Nursing Management of patient with Schizophrenia, and other psychotic disorders Classification: ICD Etiology, psychopathology, types, clinical manifestations, diagnosis of schizophrenia Nursing Assessment-History, Physical and mental status examination of patient with schizophrenia Treatment modalities and nursing management of patients with Schizophrenia and other psychotic disorders Geriatric considerations Follow-up and home care and rehabilitation 	Lecture cum discussion Case discussion Case presentation Clinical practice	MCQ's Long Essay Short Essay Assessment of patient management Problems
VII	5	Describe the etiology psychopathology, clinical manifestations, diagnosis criteria and management of patients with mood disorders	 Nursing management of patients with mood disorders Mood disorders: Bipolar affective disorders, Mania depression and dysthamia etc Etiology, psycho-pathology, clinical manifestations, diagnosis Nursing assessment-history, physical and mental status examination Treatment modalities and nursing management of patients with mood disorders Geriatric considerations Follow-up and home care and rehabilitation 	Lecture cum discussion Case discussion Case presentation Clinical practice	MCQ's Long Essay Short Essay Assessment of patient management problems



VIII	8	Describe the etiology, psycho pathology, clinical manifestations, diagnostic criteria and management of patients with neurotic, stress related and somatisation disorders	 Nursing management of patient with neurotic, stress related and somatisation disorders Anxiety disorder, phobias, (dissociation) conversion disorder, obsessive compulsive disorder, somatoform disorders, post traumatic stress disorders Etiology, psychopathology, clinical manifestations, diagnosis Nursing assessment, History, physical and mental status examination Treatment modalities and nursing management of patients with neurotic, stress related and somatisation disorders Geriatric considerations Follow-up and home care and rehabilitation 	Lecture cum discussion Case discussion Case presentation Clinical practice	MCQ's Long Essay Short Essay Assessment of patient management problems
IX	5	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with substance abuse disorders	 Nursing management of patient with substance use disorders Commonly used psychotropic substance; Classification, forms, routes, action, intoxication and withdrawal Etiology of dependence: Tolerance, Psychological & Physical dependence withdrawal syndrome, diagnosis Nursing assessment- History, physical, mental health assessment and drug assay Treatment (detoxification, ant-abuse and narcotic antagonist therapy and harm reduction) and nursing management of patients with substance abuse disorders Geriatric considerations Follow-up and home care and rehabilitation 	Lecture cum discussion Case discussion Case presentation Clinical practice	MCQ's Long Essay Short Essay Assessment of patient management problems



X	2	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of patients with personality sexual and eating disorders	 Nursing management of patient with personality, sexual and eating disorders Classification of disorders Etiology, psycho-pathology, characteristics, diagnosis Nursing assessment- History, physical and mental health assessment Treatment modalities and nursing management of patients with personality, sexual and eating disorders Geriatric considerations Follow-up and home care and rehabilitation 	Lecture cum discussion Case discussion Case presentation Clinical practice	MCQ's Short Essay Essay type Assessment of patient management problems
XI	6	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency (retardation)	 Nursing management of childhood and adolescent disorders including mental deficiency Classification of disorders Etiology, psycho-pathology, characteristics, diagnosis Nursing assessment- History, physical and mental health assessment Treatment modalities and nursing management of patients with personality, sexual and eating disorders Geriatric considerations Follow-up and home care and rehabilitation 	Lecture cum discussion Case discussion Case presentation Clinical practice	MCQ's Short essay Essay type Assessment of patient management problems
XI	6	Describe the etiology, psychopathology, clinical manifestations, diagnostic criteria and management of childhood and adolescent disorders including mental deficiency (retardation)	 Nursing management of childhood and adolescent disorders including mental deficiency Classification Etiology, psychopathology, characteristics, diagnosis, nursing assessment-history, physical, mental and IQ assessment Treatment modalities and nursing management of childhood disorders including mental deficiency (retardation) Follow-up and home care and rehabilitation 	Clinical practice Lecture cum discussion Case presentation	MCQ's Long Essay Short Essay



XII	5	Describe the etiology, psycho pathology, clinical manifestations, diagnostic criteria and management of patients with organic brain disorders	 Nursing management of organic brain disorders Classification: ICD Etiology, psychopathology, clinical features, diagnosis and differential diagnosis (Parkinson's and Alzheimer's) Nursing assessment-History, physical mental and neurological assessment Treatment modalities and nursing management of organic brain disorders 	Lecture cum discussion Case discussion Case presentation Clinical practice	MCQ's Long Essay Short Essay
			Geriatric considerationsFollow-up and home care and rehabilitation		
XIII	6	Identify psychiatric emergencies and carry out crisis intervention	 Psychiatric emergencies and crisis intervention Types of psychiatric emergencies and their management Stress adaptation Model: stress and stressor, coping, resources and mechanism Grief: Theories of grieving process, principles, techniques of counselling Types of crisis Crisis intervention: Principles, Techniques and Process Geriatric considerations Role and responsibilities of nurse 	Lecture cum discussion Demonstration Practice session Clinical practice Visit to nearest crisis intervention centers	MCQ's Long Essay Short Essay
XIV	4	Explain legal aspects applied in mental health settings and role of the nurse	 Legal issues in Mental Health Nursing The Mental Health Act 1987: Act, Sections, Articles and their implications etc. Indian Lunacy Act 1912 Rights of mentally ill clients Forensic psychiatry Acts related to narcotic and psychotropic substances and illegal drug trafficking Admission and discharge procedures Role and responsibilities of nurse 	Lecture cum discussion Case discussion	MCQ's Long Essay Short Essay



XV	4	Describe the model of preventive psychiatry Describe community mental health services in India and role of the nurse	 Community Mental Health Nursing Development of Community Mental Health Services in India National Mental Health Programme Institutionalization versus Deinstitutionalization Model of preventive psychiatry: Levels of Prevention Mental Health Services available, levels of prevention including rehabilitation and role of nurse Mental Health Agencies: Government and voluntary, National and International Mental health nursing issues for special populations: Children, Adolescene, Women, Elderly, Victims of violence and abuse, Handicapped, HIV/AIDS etc. 	Lecture cum discussion Clinical/field practice Field visits to mental health service agencies	MCQ's Long Essay Short Essay Assessment of field visit reports
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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT MENTAL HEALTH NURSING

Question No.	Question description	Division of Marks	Total Marks			
1.	Total MCQs: 15	15 x 1	15			
2.	Long Answer Questions (LAQ)	2 x 10	20			
	(Any 2 out of 3)					
3.	Short Notes (8 out of 10)	8 x 5	40			
	a) b) c) d) e) f) g) h) i) j)					
	TOTAL					

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



MENTAL HEALTH NURSING

PRACTICAL

Placement: Third Year Time: Practical - 270 hrs (9 weeks)

Internship - 96 hrs (2 weeks)

Areas	Durations (in weeks)	Objectives	Skills	Assignments	Assessment methods
Psychiatric OPD	1	Assess patients with mental health problems Observe and assist in therapies Counsel and educate patient, and families	History taking Perform mental status examination (MSE) Assist in psychometric assessment Perform neurological examination Observe and assist in therapies Teach patients and family members	History taking and mental status examination-2 Health education-1 Observation report of OPD	Assess performance with rating scale Assess each skill with checklist Evaluation of health education Assessment of observation report Completion of activity record
Child guidance clinic	1	Assessment of children with various mental health problems Counsel and educate children, families and significant others	 History taking Assist in psychometric assessment Observe and assist in various therapies Teach family and significant others 	Case work – 1 Observation report of different therapies – 1	Assess performance with rating scale Assess each skill with checklist Evaluation of observation report



Areas	Durations (in weeks)	Objectives	Skills	Assignments	Assessment methods
Inpatient Dept.	6	Assess patients with mental health problems To provide nursing care for patients with various mental health problems Assist in various therapies Counsel and educate patients, families and significant others	 History taking Perform mental status examination (MSE) Perform neurological examination Assist in psychometric assessment Record therapeutic communication Administer medications Assist in Electroconvulsive Therapy (ECT) Participate in all therapies Prepare patients for Activities of Daily living (ADL) Conduct admission and discharge counseling Counsel and teach patients and families 	Give care to 2-3 patients with various mental disorders Case study- 1 Care plan-2 (based on nursing process) Clinical presentation 2 Process recording 1 Maintain drug book	Assess performance with rating scale Assess each skill with checklist Evaluation of the case study care plan, clinical presentation, process recording Completion of activity record.



Areas	Durations (in weeks)	Objectives	Skills	Assignments	Assessment methods
Community psychiatry	1	To identify patients with various mental disorders To motivate patients for early treatment and follow up To assist in follow up clinic Counsel and educate patients, families and community	 Conduct case work Identify individuals with mental health problems Assist in mental health cmps and clinics Counsel and teach family members, patients and community 	Case work –1 Observation report on field visits	Assess performance with rating scale Evaluation of case work and observation report Completion of activity record.

Clinical Training (Internship)

Areas	Durations (in weeks)	Objectives	Skills	Assignments
Psychiatry ward	2	Provide Comprehensive care to patients with mental health problems	Integrated practice	Assess clinical performance with rating scale



NURSING RESEARCH AND STATISTICS

Placement : Third year **Time :** Theory - 45 hrs

Practical - 45 hrs

Course Description : The course is designed to enable students to develop an understanding of basic concepts of research, research process and statistics and to enable them to conduct/ participate in need based research studies in various settings. Further the students will be able to utilize the research findings to provide quality-nursing care.

Unit	Time	Learning objectives	Content	Teaching learning activities	Assessment method
I	4	Describe the concept of research, terms, need and areas of research in nursing. Explain the steps of research process.	Research and research process Introduction and need for nursing research. Definition of Research & nursing research. Steps of scientific method. Characteristics of good research. Steps of research process - overview	Lecture Discussion Narration of steps	MCQ's Long Essay Short Essay
II	3	Identify and state the research problem and objectives	 Research Problem/Question Identification of problem area. Problem statement. Stating objectives of the research problem. Criteria of a good research problem 	Lecture Discussion Exercises on writing	MCQ's Long Essay Short Essay
III	3	Review the related literature	Review of Literature • Location • Sources • Online search; CINAHL, COCHRANE etc. • Purposes • Method of review	Lecture Discussion Exercises on writing	MCQ's Long Essay Short Essay
IV	4	Describe the research approach es and designs	Research approaches and designs Historical, survey and experimental Qualitative and Quantitative designs	Lecture Discussion	MCQ's Long Essay Short Essay



V	8	-Explain the sampling process -Describe the methods of data collection -Developing and standardizing an instrument	 Sampling and data collection Definition of Population, Sample, Sampling criteria, factors influencing sampling process, types of sampling techniques. Data collection Methods and Instruments Methods of data collection Questionnaire, interview, observation, records analysis and measurement Types of instruments Validity & Reliability of the instrument Pilot Study Data collection procedure 	Lecture Discussion Conduct group research project	MCQ's Long Essay Short Essay
VI	15	Explain the use of statistics, scales of measurement and graphical presentation of data Describe the measures of central tendency and variability and methods of correlation	 Introduction to statistics Definition, use of statistics, scales of measurement Frequency distribution and graphical presentation of data Mean, Median, Mode, standard deviation Normal probability and tests of significance Coefficient of correlation Inferential statistics and types Statistical packages and its application 	Lecture Discussion Conduct group research project	MCQ's Long Essay Short Essay
VII	4	Analyze, interpret and summarize the research date	Analysis of Data	Lecture Discussion Conduct group research project	MCQ's Long Essay Short Essay
VIII	4	Communicate and utilize the research findings.	Communication and utilization of Research Communication of research findings Verbal report Writing research report Writing scientific article/ paper- Critical review of published research & Utilization of research findings	Lecture Discussion Presentation of research report	MCQ's Long Essay Short Essay



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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT NURSING RESEARCH AND STATISTICS

Question No.	Question description	Division of marks	Total marks		
1.	Total MCQs:- 15	15 x 1	15		
	1- 10 Nursing Research	10 X 1			
	11-15 Statistics	5 X 1			
	Section- A Nursing Research (40 Marks)				
2.	Long Answer Questions (LAQ) (Any2 out of 3)	2 x 10	20		
3.	Short Notes (4 out of 6)	4x5	20		
	a) b) c) d) e) f)				
	Section – B Statistics (20)Marks)			
4.	Long Answer Questions (LAQ) (Any 1 out of 2)	1 x 10	10		
5.	Short Notes (2 out of 4)	2x5	10		
	a) b) c) d)				
	TOTAL				

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions : 3 questions will be given out of which, 2 have to be answered in Nursing Research and 1 out of 2 in Statistics.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered in Nursing Research & 2 out of 4 in Statistics.



MIDWIFERY AND OBSTETRICAL NURSING

Placement: Fourth Year Time: Theory - 90 hrs

Practical -180 hrs

Internship: 432 hours (9 weeks)

Course Description: This course is designed for students to appreciate the concepts and principles of midwifery and obstetrical nursing. It helps them to acquire knowledge and skills in rendering nursing care to normal and high risk pregnant woman during antenatal, natal and post natal periods in hospitals and community settings. It also helps to develop skills in managing normal and high risk neonates and participate in family welfare programme.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	3	Recognize the trends and issues in midwifery and obstetrical nursing	Introduction to midwifery and obstetrical Nursing Introduction to concepts of midwifery and obstetrical Nursing Trends in midwifery and obstetrical nursing Historical perspectives and current trends Legal and ethical aspects Preconception care and preparing for parenthood Role of nurse in midwifery and obstetrical care. National policy and legislation in relation to maternal health and welfare. Maternal, morbidity, mortality and fertility rates Perinatal, morbidity and mortality rates	Lecture discussion Explain using Charts and graphs	Short answers Objective type
II	8	Describe the anatomy and physiology of female reproductive system	Review of anatomy and physiology of female reproductive system and foetal development Female pelvis — general description of the bones joints, ligaments, planes of the pelvis diameters of the true pelvis, important landmarks, variations in pelvis shape. Female organs of reproduction - external genetalia, internal genital organs and their anatomical	Lecture discussion Review with Charts and models	Short answers Objective type



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			relations, musculature — blood- supply, nerves, lymphatics, pelvic cellular tissue, pelvic peritoneum. Physiology of menstrual cycle Human sexuality Foetal development Conception Review of fertilization, implantation (embedding of the ovum), development of the embryo and placenta at term — functions, abnormalities, the foetal sac, amniotic fluid, the umbilical chord, Foetal circulation, foetal skull, bones, sutures and measurements. Review of Genetics		
III	8	Describe the diagnosis and management of women during antenatal period.	Assessment and management of pregnancy (ante-natal) Normal pregnancy Physiological changes during pregnancy. Reproductive system Cardio vascular system Respiratory system Urinary system Urinary system Sastro intestinal system Metabolic changes Skeletal changes Skin changes Endocrine system Psychological changes Discomforts of pregnancy Diagnosis of pregnancy Diagnosis of pregnancy Ante-natal diagnosis Confirmatory tests Ante-natal care C Objectives Assessment History and physical examination Antenatal Examination Signs of previous child-birth	Lecture discussion Demonstration Case discussion! presentation Health talk Practice session Counseling session Supervised Clinical practice	Short answers Objective type Assessment of skills with check list Assessment of patient management problems



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			- Relationship of foetus to uterus and pelvis: Lie, Attitude, Presentation, Position - Per vaginal examination. • Screening and assessment for high risk; • Risk approach • History and Physical Examination • Modalities of diagnosis; Invasive & Non-Invasive, ultrasonics, card iotomography, NST, CST • Antenatal preparation - Antenatal counseling - Antenatal exercises Q Diet - Substance use - Education for child-birth - Husband and families - Preparation for safe-confinement - Prevention from radiation • Psycho-social and cultural aspects of pregnancy - Adjustment to pregnancy - Unwed mother - Single parent - Teenage pregnancy - Sexual violence • Adoption		
IV	12	Describe the physiology and stages of labour. Describe the management of women during intra- natal period	Assessment and management of intra-natal period, • Physiology of labour, mechanism of labour • Management of labour. First stage - Signs and symptoms of onset of labour; normal and abnormal - Duration - Preparation of: • Labour room • Woman - Assessment and observation of women in labour; partogrammaternal and foetal monitoring	Lecture discussion Demonstration Case discussion! presentation Simulated practice Supervised Clinical practice	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient management problems



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			- Active management of labour,		
			Induction of labour		
			- Pain relief and comfort in labour		
			Second stage		
			Signs and symptoms; normal and abnormala		
			Duration		
			Conduct of delivery; Principles and techniques		
			• Episiotomy (only if required)		
			Receiving the new born		
			- Neonatal resuscitation; initial steps and subsequent resuscitation		
			- Care of umbilical cord		
			- Immediate assessment including screening for congenital anomalies		
			- Identification		
			- Bonding		
			- Initiate feeding		
			- Screening and transportation of the neonate		
			Third stage		
			Signs and symptoms; normal and abnormal		
			Duration		
			Method of placental expulsion		
			Management; Principles and techniques		
			Examination of the placenta		
			Examination of perineum		
			Maintaining records and reports		
			Fourth Stage		



V	5	Describe the physiology of puerperium. Describe the management of women during post- natal period	Assessment and management of women during post natal period • Normal puerperium; Physiology Duration • Postnatal assessment and management • Promoting physical and emotional well-being • Lactation management Immunization • Family dynamics after child- birth, • Family welfare services; methods, • counseling • Follow-up • Records and reports	Lecture discussion Demonstration Health talk - Practice Session Supervised Clinical practice	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient management problems
VI	5	Describe the assessment and management of normal neonate	 Assessment and management of normal neonates Normal Neonate; Physiological adaptation, Initial & Daily assessment Essential newborn care; Thermal control, Breast feeding, prevention of infections Immunization Minor disorders of newborn and its management Levels of Neonatal care (level I, II, & III) At primary, secondary and tertiary levels Maintenance of Reports and Records 	Lecture discussion Demonstration Practice Session Supervised Clinical practice	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient management problems



VII	10	Describe the Identification and management of women with high risk pregnancy	High-risk pregnancy - assessment & management • Screening and assessment - Ultrasonics, cardiotomyography, NST, CST, non-invasive & invasive, - Newer modalities of diagnosis • High-risk approach • Levels of care; primary, secondary and tertiary levels • Disorders of pregnancy - Hyper-emesis gravidarum, bleeding in early pregnancy, abortion, ectopic	Lecture discussion Demonstrate using video films,scan reports, partograph etc Case discussion/prese ntation Health talk Practice Session Supervised Clinical practice	Essay type Short answers Objective type Assessment of skills with check list Assessment of patient management problems
			secondary and tertiary levels • Disorders of pregnancy - Hyper-emesis gravidarum,	-	
			Maintenance of Records and Report		



VIII	10	Describe management of abnormal labour. And obstetrical emergencies	Abnormal Labour - assessment and management Disorders in labour CPD and contracted pelvis Malpositions and malpresentations Premature labour, disorders of uterine actions - precipitate labour, prolonged labour Complications of third stage: injuries to birth canal Obstetrical emergencies and their management; Presentation and prolapse of cord, Vasa praevia, amniotic fluid embolism, rupture of uterus, shoulder dystocia, obstretical shock Obstetrical procedures and operations; Induction of labour, forceps, vacuum version, manual removal of placenta, cesarean section, destructive operations Nursing management of women undergoing Obstetrical operations and procedures	Lecture discussion Demonstration Case discussion! presentation Practice Session Supervised Clinical practice	Essay type Short answers Objective type Assessment of skills with checklist. Assessment of patient management problems
IX	4	Describe management of post natal complications	Abnormalities during Postnatal Periods Assessment and management of woman with postnatal complications Puerperal infections, breast engorgement & infections, thrombo-Embolic disorders, postpartum haemorrage, Eclampsia and subinvolution, Psychological complications: - Post partum Blues - Post partum Depression - Post partum Psychosis	Lecture discussion Demonstration Case discussion presentation Supervised Clinical practice	Essay type Short answers Objective type Assessment of skills with checklist. Assessment of patient management problems



X	10	Identify the high risk neonates and their nursing management	Assessment and management of High risk newborn • Admission of neonates in the neonatal intensive care units- protocols Nursing management of: - Low birth weight babies - Infections - Respiratory problems - haemolytic disorders - Birth injuries - Malformations • Monitoring of high risk neonates • Feeding of high risk neonates • Organization and management of neonatal intensive care units • Infection control in neonatal intensive care units • Maintenance of reports and records	Lecture discussion Demonstration -Practice session Case discussion! presentation Supervised Clinical practice	Essay type Short answers Objective type Assessment of skills with checklist. Assessment of patient management problems
XI	5	Describe indication, dosage, action, side effects and nurses responsi bilities in the administration of drugs used for mothers	Pharmaco-therapeutics in obstetrics Indication, dosage, action, contra indication and side effects of drugs Effect of drugs on pregnancy, labour & puerperium, Nursing responsibilities in the administration of drug in Obstetrics - oxytocins, antihypertensives, diuretics, tocolytic agents, anti convulsants; Analgesics and anesthetics in obstetrics. Effects of maternal medication on foetus and neonate	Lecture discussion Drug book Drug presentation	Short answers Objective type





MIDWIFERY AND OBSTETRICAL NURSING - PRACTICAL

Placement: Fourth year Practical: 180 hours

Areas	Duration in hours	Objectives	Skills	Assignments	Assessment methods
Antenatal clinic/ OPD	2	Assessment of pregnant women	Antenatal history taking Physical examination Recording of Weight & B.P Hb.& Urine testing for sugar and albumin Antenatal examination- abdomen and breast Immunization Assessment of risk status Teaching antenatal mothers Maintenance of Antenatal records	*Conduct Antenatal Examinations 30 Health talk - I Case book recordings	Verification of findings of Antenatal examinations Completion of casebook recordings
Labour room O.T.	4	Assess woman in labour Carry out per- vaginal examinations Conduct normal deliveries Perform episiotomy and suture it Resuscitate newborns Assist with Cesarean Sections,	Assessment of Woman in labour Per vaginal examinations and interpretation Monitoring and caring of woman in labour Maintenance of partograph Conduct normal delivery Newborn assessment and immediate care Resuscitation of newborns	*Conduct normal deliveries - 20 *Per vaginal examinations 5 *Perform and Suture the episiotomies - 5 *Resuscitate newborns - 5 *Assist with Caesarean Sections - 2 *Witness abnormal deliveries - 5	Assessment of clinical perfonTiance with rating scale Assessment of each skill With checklists Completion of Case book recordings



Areas	Duration in hours	Objectives	Skills	Assignments	Assessment methods
		MTP and other surgical procedures	Assessment of risk status of newborn Episiotomy aid suturing Maintenance of labour and birth records Arrange for and assist with Cesarean section and care for woman& baby during Cesarean Arrange for and assist with MTP and other surgical procedures	Assist with MTP and other Surgical procedures - Case book recordings	
Post natal ward	4	Provide nursing care to post natal mother and baby Counsel and teach mother and family for parent hood	Examination and assessment of mother and Baby Identification of deviations Care of postnatal mother and baby Perineal care Lactation. management Breast feeding Babybath Immunization, Teaching postnatal mother: Mother craft Post natal care & Exercises Immunization	Case presentation - I Case book recordings *Give care to Post natal - mothers - 20 Health talks-I Case study —	Assessment of clinical performance Assessment of each skill With checklists Completion of Case book recording Evaluation of case study and presentation and health education sessions
Newborn nursery	2	Provide nursing care to newborn at risk	Newborn assessment Admission of neonates Feeding of at neonates risk	Case study-1 Observation Study – I	Assessment of clinical performance Assessment of each skill With checklists Evaluation of and observation study



Family Planning Clinic	Rotation from post natal ward -1	Counsel for and provide family welfare services	Counseling technique Insertion of IUD Teaching on use of family planning methods Arrange for and Assist with family planning operations Maintenance of records and reports	* IUD insertion-5 Observation Study-i Counseling- 2 Simulation exercise on recording and reporting - 1	Assessment of each skill With checklists Evaluation of and observation study
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Essential Requirements for registration as midwife

* Antenatal examination	30
* Conducting normal deliveries in Hospital/home/health centre	20
* Vagina! Examination	5
* Episiotomy and suturing	5
* Neonatal resuscitation	5
* Assist with Cesarean Section	2
* Witness/Assist abnormal deliveries	5
* Postnatal cases nursed in hospital/home/health centre	20
* Insertion of IUD	5

Note: All casebooks must be certified by teacher on completion of essential requirements



INTERNSHIP OBSTETRICAL NURSING

Duration: 432 Hrs. (9 weeks)

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
Labour Ward Neonatal intensive care unit NICU	2	Provide comprehensive care to mothers and neonates	Integrated Practice	Completion of other essential requirements Case book recordings	Assess clinical performance with rating scale Completion of case book recordings
Antenatal	2				recordings
Positional Ward	2				
ОТ	2				

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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT MIDWIFERY AND OBSTETRICAL NURSING

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs:- 15	15 x 1	15
2.	Long Answer Questions (LAQ)	2 x 10	20
	(Any 2 out of 3)		
3.	Short Notes (8 out of 10)	8 x 5	40
	a) b) c) d) e) f) g) h) i) j)		
	75		

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



COMMUNITY HEALTH NURSING – II

Placement: Fourth year

Time: Theory – 90 hrs

Practical – 135 hrs

Course description: This course is designed for students to practice community health nursing for the individual, family and groups at both urban and rural settings by using concept and principles of health and community health nursing

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
I	4	Define concepts, scope, principles and historical development of Community Health and community health Nursing	Introduction • Definition, concept & scope of Community Health and Community Health Nursing • Historical development of Community health • Community health Nursing. - Pre-independence - Post-independence	Lecture discussion	Essay type Short answers
II	6	Describe health plans, policies, various health committees and health problems in India	Health planning and policies and problems National health planning in India-Five Year Plans Various committees and commissions on health and family welfare Central council for health and family welfare (CCH and FW National health policies (1983, 2002) National population policy Health problems in India	Lecture discussion Panel discussion	Essay type Short answers
III	15	Describe the system of delivery of community health services in rural and urban areas	Delivery of community health services Planning, budgeting and material management of SCs, PHC and, CHC Rural: Organization, staffing and functions of rural health services provided by government at:	Lecture discussion Visits to various health delivery systems Supervised field practice Panel discussion	Essay type Short answers



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
		List the	• Village		
		functions of	Sub centre		
		various levels	Primary health centre		
		and their	Community health center /		
		staffing	sub divisional		
		pattern	Hospitals		
		Explain the	• District		
		components of	• State		
		health services	• Center		
		Describe	Urban: Organization, staffing		
		alternative	and functions of urban health		
		systems of	services provided by government		
		health	at:		
		promotion	• Slums		
		and health	Dispensaries		
		maintenance.	Maternal and child health		
		Describe the	centers		
		chain of referral	Special Clinics • Hospitals		
		system	Corporation / Municipality /		
			Board		
			Components of health services		
			Environmental sanitation		
			Health education		
			Vital statistics		
			• M.C.Hantenatal, natal,		
			postnatal, MTP Act, female		
			foeticide act, child adoption act		
			Family Welfare		
			National health programmes		
			School health services		
			Occupational health		
			Defence services		
			Institutional services		
			Systems of medicine and health		
			care		
			Allopathy		
			Indian System of Medicine and		
			Homeopathy		
			Alternative health care		
			systems like yoga, meditation,		
			social and spiritual healing etc		
			Referral system		



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
IV	25	Describe Community health Nursing approaches and concepts Describe the roles and responsibilities of Community health nursing personnel	Community health nursing approaches, concepts and roles and responsibilities of nursing personnel • Approaches • Nursing theories And Nursing process • Epidemiological approach • Problem solving approach • Evidence based approach • Empowering people to care for themselves • Concepts of Primary Health Care: • Equitable distribution • Community participation • Focus on prevention • Use of appropriate technology • Multi-sectoral approach • Roles and responsibilities of Community health nursing personnel in • Family health services • Information Education Communication (IEC) • Management Information System (Mis): Maintenance of Records & reports • Training arid supervision of various categories of health workers • National Health Programmes • Environmental sanitation • Maternal and child health and Family welfare • Treatment of Minor ailments • School Health Services • Occupational Health • Organization of clinics, camps: Types, Preparation, planning, conduct and evaluation • Waste management in the center, clinics etc. Home visit: Concept, Principles, Process, Techniques: Bag technique home visit Qualities of Community Health Nurse	Lecture discussion Demonstration Practice session Supervised field practice Participation in camps Group Project	Essay type Short answers



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
V	15	Describe and appreciate the activities of community health nurse in assisting individuals and groups to promote and maintain their health	Job Description of Community health nursing personnel Assisting individuals and groups to promote and maintain their health Empowerment for self care of individuals, families and groups in A. Assessment of self and family • Monitoring growth and development • Mile stones • Weight measurement • Social development • Temperature and Blood pressure monitoring • Menstrual cycle • Breast self examination and testicles • Warning Signs of various diseases • Tests: Urine for sugar and albumin, blood sugar B. Seek health services for • Routine checkup • Immunization • Counseling • Diagnosis • Treatment • Follow up • Maintenance of health records for self and family • Continue medical care and follow up in community for various diseases and disabilities E. Carryout therapeutic procedures as prescribed! required for self and family F. Waste Management • Collection and disposable of waste at home and community G. Sensitize and handle social issues affecting health and development for self and family • Women Empowerment • Women Empowerment • Women and child abuse • Abuse of elders • Female Foeticide • Commercial sex workers	Lecture discussion Demonstration Practice session Supervised field practice Individual group/family community health education	Essay type Short answers



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			 Food adulteration Substance abuse H. Utilize community resources for self and family Trauma services Old age homes Orphanage Homes for physically and mentally challenged individuals Homes for destitute 		



VI	20	Describe	National Health & Family	Lecture,	Essay Type
'-	-	National Health	Welfare Programmes and the	Discussions	Short
		and Family	Role of Nurse	Participation in	Answers
		Welfare	National ARI Progaramme	National Health	
			Revised National Tuberculosis	Programmes	
		Role of Nurse	Control Programme (RNTCP)	Field Visits	
		Describe the	National Anti-Malaria Programme		
		various health	National Filaria control		
		schemes in India	Programme		
			National Guinea worm eradication		
			Programme		
			National Leprosy Eradication		
			Programme		
			National AIDS Control		
			:Programme		
			STD Control Programme		
			National Programme for Control		
			of Blindness		
			Iodine Deficiency Disorder		
			Programme		
			Expanded Programme on		
			Immunization		
			National Family Welfare		
			Programme – RCH Programme		
			Historical Development,		
			Organization, Administration,		
			Research, Constraints		
			National Water Supply &		
			Sanitation Programme		
			Minimum need programme		
			National Diabetics Control		
			Programme Polio Eradication: Pulse Polio		
			Programme Pulse Pollo		
			National Cancer Control		
			Programme		
			Yaws eradication programme		
			National Nutritional Anemia		
			inauonai muunuonai Anenna		



Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment methods
			Prophylaxis Programme 20 Point Programme ICDS Programme Mid-day Meal Applied Nutritional Programme National Mental Health Programme Health Schemes -ESI -CGHS -Health Insurance		
VII	5	Explain the roles and functions of various national and international health agencies	Health Agencies International - WHO, UNFPA, UNDP, World Bank, FAQ, UNICEF, DANIDA, European Commission (BC), Red cross, USAID, UNESCO, Colombo Plan, ILO, CARE etc. National - Indian Red Cross, Indian Council for child welfare, Family Planning Association of India (FPAI), Tuberculosis Association India, Hindu Kusht Nivaran Sangh, Central Social Welfare Board, All India women's conference, Blind Association of India etc.	Lecture discussion Field visits	Essay type Short answers



COMMUNITY HEALTH NURSING - II PRACTICAL

Placement : Fourth year Time: Practical — 135 hours Internship - 192 hrs. (4 weeks)

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
Community health nursing	Urban 1 Rural 4	involve clients in	Community health survey Community diagnosis Family care: Home adaptation of common procedures Home visit: Bag technique Organize and conduct clinics- antenatal, post natal, well baby clinic, camps etc Screen manage and referrals for: High risk mothers and neonates Accidents and emergencies Illnesses: Physical and mental Disabilities Conduct delivery at centre/home: episiotomy and suturing Resuscitate newborn School Health programme Screen, manage, refer children Collaborate with health and allied agencies Train and Supervise health workers Provide family welfare services: insertion of IUD Counsel and teach individual, family and community about: HIV, TB, Diabetes, hypertension, Mental health, adolescents, elderly health,	Community survey report-I Family care study- I Project-I Health talk-I Case book recording	Assess clinical performance with rating scale Evaluation of community survey report, family care study, project and health talk Completion of activity record. Completion of case book recording



Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
			physically and mentally challenged individuals etc Collect and Calculate Vital health statistics Document and maintain Individual, family and administrative records. Write reports- center, disease, national health programme/ projects		

Placement : Internship Time: 4 Weeks

Areas	Duration in weeks	Objectives	Skills	Assignments	Assessment methods
Urban	1	Provide comprehensive care to individual, family and community	Integrated Practice and group project- I in each rural and urban	Group project-	Assess clinical performance with rating scale Evaluation of Project



District Hospital	3 weeks	Provide comprehensive	Middle level health care provider	MLHP log book	Case study Counselling
CĤC PHC		care to individual, family and community	• Roles and responsibilities of Mid-Level Healthcare Providers (MLHP)		Viva voce Skill assessment
			New national health programmes		
			AYUSHMAN BHARAT- The up gradation of sub-centers into of health and wellness centers, Concept of Comprehensive primary health care and key elements of CPHC, Service delivery and continuum of care and Roles of Midlevel health care providers(MLHP)		
			Diagnosing and treatment skills essential at subcentre level using Standard treatment protocols as per national health programmes		
			Introduction to Rashtriya Bal Sureksha Karyakaram (RBSK)		
			Social mobilization skills		



<u> </u>
Drug dispensing
Programme management including supervision and monitoring
Investigation of an outbreak
Behavior change
communication and soft skills
Integrated Disease Surveillance Project (IDSP)
Mother and Child Tracking System (MCTS)
Chikungunya
Organization of labour room
Safe child birth checklist
Postpartum visits by health workers
• Family planning 2020
National family planning programmes
Food born diseases



vistrict ospital CHC PHC	oital comprehensive care to	Health planning and health care delivery system in India (IPHS guidelines)	MLHP log book	Case study Counselling Viva voce Skill assessment
	community	Health Management Information System (HMIS)		
		Electronic Medical Records (EMR)		
		Micro Birth planning		
		Adolescent counseling		
		• Sources of vital statistics		
		• Financial Management , Accounts and computing at Sub- centre		
		Mental Health Act, drug de-addiction programmes		
		Time trends in disease occurrence in epidemiology		
		• Infant and young child feeding and counseling		
		Nutrition across life cycle and update on national nutritional programmes		
		• Use of equipments		
		 Throat problems and febrile seizures in children Transportation of baby and common accidents and mishaps in labour 		
		febrile seizures in children • Transportation of baby and common accidents		



• Counseling – GATHER approach	
Update biomedical waste management by specifying biomedical waste management rules 2016	
Suturing of superficial wounds	
Postpartum Intra uterine contraceptive devices (PPIUCD)	
All the national health programmes on communicable and non-communicable diseases.	

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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT COMMUNITY HEALTH NURSING-II

Question No.	Question description	Division of marks	Total marks			
1.	Total MCQs:- 15	15 x 1	15			
2.	Long Answer Questions (LAQ)	2 x 10	20			
	(Any2 out of 3)					
3.	Short Notes (8 out of 10)	8x5	40			
	a) b) c) d) e) f) g) h) i) j)					
	TOTAL					

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.



MANAGEMENT OF NURSING SERVICES AND EDUCATION

Placement: Fourth year Hours- 90 Hours
Theory: 60 hours

Practical: 30 hours

Course Description: This course is designed to enable students to acquire understanding of management of clinical and community health nursing services, nursing educational programmes. This is also designed to enable students to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the profession.

Unit	Time (Hrs)	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	T = 4	Explain thee principles and functions of management.	Introduction to management in nursing • Definition, concepts and theories • Functions of management • Principles of Management • Role of Nurse as a manager	Lecture Discussion Explain using organization chart	Short answers
II	T = 8 P = 5	Describe the elements and process of management	 Management process Planning; mission, philosophy, objectives, operational plan Staffing: philosophy, staffing study, norms, activities, patient classification systems, scheduling Human resource management; recruiting, selecting, deployment, retaining, promoting, superannuation etc Budgeting: concept, principles, types, cost benefit analysis, audit Material management: equipment and supplies Directing process (Leading) Controlling: Quality management Program Evaluation Review Technique (PERT), Bench marking, Activity Plan (Gantt Chart) 	Lecture Discussion Simulated Exercises Case studies	Essay type Short answers



	T = 12 $P = 20$	Describe the management of nursing services in the hospital and community	Management of nursing services in the hospital and Community: Planning: Hospital and patients care units including ward management Emergency and Disaster management Human resource management: Recruiting, selecting, deployment, retaining, promoting, Superannuation etc. Categories of nursing personnel including job description of all levels Patient / population classification systems Patients /population assignment and Nursing care responsibilities Staff development and welfare Budgeting proposal projecting requirements for staff equipments and supplies for Hospital and patient care units Emergency and disaster management Material Management procurement inventory control auditing and maintenance in Hospital and patient care units Emergency and disaster management Directing and leading delegation participatory management Directing and leading delegations	Lecture Discussion Roaster, ward supervision Assignment on duties and responsibilities of ward sister Writing report Demonstration Simulated Exercises Case studies Supervised practice in ward writing indents, preparing duty	Essay type Short answers Assessment of problem solving exercise Assessment of the assignments Performance evaluation by ward sister with rating scale.
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			Supervision & guidance Implement Standards, policies, procedures and practices Staff development and welfare Maintenance of discipline Controlling / Evaluation: Nursing Rounds/Visits, Nursing protocols, Manuals Quality Assurance Model, documentation- Records and reports Performance appraisal		
IV	T = 6	Describe the concepts, theories & technique of organizational behavior and human relations	Organizational behavior and human relations: Concepts and theories of organizational behaviors Review of Channels of communication Leadership styles Review of Motivation; concepts and theories Group dynamics Techniques of Communication; Interpersonal relationships Human relations; Public relations in context of nursing Relations with professional associations and employee unions and Collective bargaining	Lecture Discussion Role plays Group games Self assessment Case discussion Practice Session	Essay type Short answers Assessment of problem solving
V	T = 6	Participate in planning and organizing in service education program	In service education: Nature & scope of in- service education program, Organization of in service education Principles of adult learning, Planning for in-service education program, techniques, methods & evaluation of staff education program Preparation of report	Lecture Discussion Plan & conduct an educational session for in service nursing personnel	Short Answer Objective type Assess the planning & conduct of the educational session



VI	T = 10	Describe management of Nursing educational	Management of nursing educational institutions • Establishment of Nursing educational institution-	Lecture Discussion Role plays Counseling	Essay type Short answers
			Establishment of Nursing educational institution-INC Norms and guidelines Co-ordination with Regulatory bodies Accreditation Affiliation Philosophy! Objectives Organization Structure Committees Physical facilities College/School Hostel Students Selection Admission Guidance and Counseling Maintaining discipline-Faculty and staff Selection Recruitment Job description Placement Performance appraisal Development and welfare Budgeting Equipments and supplies: audio visual equipments, laboratory equipment, books, journals etc Curriculum; Planning, implementation and evaluation, Clinical facilities Transport facilities		
			 Institutional Records and reports administrative, faculty, staff and students 		



VII	T = 10	Describe the ethical and legal responsibilities of a professional nurse. Explain the nursing Practice standards	Nursing as a profession: Nursing as a profession Philosophy; nursing Practice Aims and objectives Characteristics of a professional nurse Regulatory bodies; INC. SNC Acts; - constitution, functions Current trends and issues in Nursing Professional ethics Code of ethics; INC, ICN Code of Professional conduct; INC,ICN Practice standards for Nursing; INC Consumer protection act Legal Aspects in Nursing Legal terms related to practice; registration and licensing Laws related to nursing practice; Breach and penalties Malpractice and negligence ICN	Lecture Discussion Case discussion Panel discussion Role plays Critical incidents Visit to INC/ SNRCs	Short answers Assessment of critical incidents
VIII	T = 4	Explain the various opportunities for professional advancement	Professional Advancement Continuing education Career Opportunities Collective bargaining Membership with Professional organizations; National. and International Participation in research activities Publications; Journals, Newspapers etc.	Lecture Discussion Review! Presentation of published articles Group work on maintenance of bulletin board	Short answers



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DISTRIBUTION OF TYPE OF QUESTION AND MARKS FOR THE SUBJECT OF MANAGEMENT OF NURSING SERVICE & EDUCATION

Question No.	Question description	Division of marks	Total marks
1.	Total MCQs :- 15	15 x 1	15
2.	Long Answer Questions (LAQ)	2 x 10	20
	(Any 2 out of 3)		
3.	Short Notes (8 out of 10)	8 x 5	40
	a) b) c) d) e) f) g) h) i) j)		
	75		

Note:

- 1. MCQ: Each MCQ carries 1 mark.
- 2. Long Answer Questions: 3 questions will be given out of which, 2 have to be answered.
- 3. Short Notes: 10 questions will be given out of which, 8 have to be answered.