YENEPOYA

REGULATIONS AND CURRICULUM GOVERNING

POST BASIC B.Sc. NURSING PROGRAM

(Curriculum Implementation and Revision Year: 2010)

Name of the Constituent Unit: Yenepoya Nursing College

RABBI ZIDNI 'ILMA

YENEPOYA

(DEEMED TO BE UNIVERSITY)

Deralakatte, Mangalore, Karnataka.

Year of establishment : 2010
Year of introduction : 2019

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Yenepoya (Deemed to be University)

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YENEPOYA

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PREFACE

Yenepoya University, the first Deemed University (recognized under Section 3(A) of the UGC Act 1956) in Dakshina Kannada district was established in 2009. The university Consists of four constituent colleges under its ambit namely Yenepoya Medical College, Yenepoya Dental College, Yenepoya Nursing College and Yenepoya Physiotherapy College. The institutions ensure high standards of academic performance and are rendering quality health care services.

The aims of nursing profession is to render quality healthcare to all needy people and nursing education aims at creating a new generation of nurses who are competent to meet the emerging nursing challenges in the hospital environment and community environment through quality education. There are a number of educational paths to become a professional nurse, which vary greatly worldwide, but all involve extensive study of nursing theory and practice as well as training in clinical skills. The minimum standard requirements for entry in to nursing practice is determined by the nursing council of India.

The Indian Nursing Council is a National regulatory body that maintains uniform standards in Nursing Education and prescribes the syllabus and regulations for various nursing programs in India. Considering the recommendations of Indian Nursing Council, the syllabus for Post Basic.B.Sc Nursing have been revised at par with the current developments and trends in the nursing profession after proper discussions at the levels of Board of Studies, Faculty and Academic Council.

The students of Yenepoya University are also privileged to undergo the core module on environmental studies as per the UGC recommendation in addition to other Add on courses.

I hope the revamping of syllabus will help the students to update and expand their knowledge to a great extent. The academic transaction is now going to be shifted from conventional methods to e-learning from 2015 onwards. I congratulate and appreciate the efforts put by the faculty of nursing in the revision of curriculum.

Dr. M. Vijaya Kumar
Vice Chancellor
Yenepoya University

Vision and Mission

Vision

To provide access to quality higher education, ensuring equity, to create a vibrant knowledge capital and to create inspiring leaders of tomorrow who can take this country to the forefront of the developed nations.

Mission

- To achieve academic excellence and global competencies among students.
- To create an environment for the generation of new knowledge through meaningful research, adopting latest methods of pedagogy and incorporating modern principles of academics integrated with highest ethical standards.
- To extend the knowledge acquired and new knowledge

PHILOSOPHY

(Adapted from Indian Nursing Council)

INC believes that,

Health is a state of well-being that enables a person to lead a psychologically, socially and economically productive life. Health is not a privilege but a right of all the people. Individuals, families and communities have a responsibility towards maintaining their health.

Nursing contributes to the health services in a vital and significant way in the health care delivery system. It recognizes national health goals and is committed to participate in the implementation of national health policies and programmes. It aims at identifying health needs of the people, planning and providing quality care in collaboration with other health professionals and community groups.

Scope of nursing practice encompasses provision of promotive, preventive, curative and rehabilitative aspects of care to people across their life span in wide variety of health care settings. Practice of nursing is based upon application of basic concepts and principles derived from the physical, biological, behavioral science.

Nursing is based on values of caring, and aims to help individuals to attain independence in self-care. It necessitates development of compassion and understanding of human behavioral among its practitioners to provide care with respect and dignity and protect the rights of individuals & groups.

Undergraduate nursing program at the post basic level is a broad based education within an academic framework, which builds upon the skills. And competencies acquired at the Diploma level. It is specifically directed to the upgrading of critical thinking skills, Competencies & standards required for practice of professional nursing and midwifery as envisaged in National Health Policy 2002.

The teachers have the responsibility to be role models and create learning environment that enables students to acquire inquiry driven, self directed learning and foster an attitude of lifelong learning.

Under graduate nursing education program at the post basic level prepares its graduates to become exemplary citizen by adhering to code of ethics and professional conduct at all times in fulfilling personal, Social and professional obligations so as to respond to national aspirations.

AIMS

Post Basic B.Sc degree in nursing is a broad based education aimed to build upon the skills and competencies acquired at the diploma in nursing level. It is specifically directed to the upgrading of critical thinking skills, competencies and standards required for practice of professional nursing and midwifery as envisaged in National Health Policy. The course is intended to enable the graduates,

- Assume responsibilities as professional, competent nurses and midwives at basic level in providing promotive, preventive, curative and rehabilitative services.
- Make independent decisions in nursing situations, protect the right 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 settings.

OBJECTIVES

On completion of Post-Basic B.Sc. Nursing degree course the graduates will be able to,

- assess health status, identify nursing needs, plan, implement and evaluate nursing care for patients/ clients that contribute to health of individuals, families and communities.
- demonstrate competency in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioural sciences.
- participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.
- demonstrate skills in communication and interpersonal relationship.
- demonstrate leadership qualities and decision – making abilities in various situations.
- demonstrate skills in teaching to individuals and groups in clinical/community health settings.
- demonstrate managerial skills in various health care settings.
- practice ethical values in their personal and professional life.
- participate in research activities and utilize research findings in improving nursing practice.
- recognize the need for continued learning for their personal and professional development.

YENEPOYA
(DEEMED TO BE UNIVERSITY)
Recognized under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

University Road, Deralakatte, Mangaluru – 575 018

No. Y/REG/ACA/Notification/Admission Date: 1.4.2010

NOTIFICATION

Sub: Post Basic B.Sc Nursing Syllabus for Yenepoya University.

Ref: 1. Resolution of 3rd Academic Council meeting dt.31.10.2009, Agenda 16
2. Resolution of 10th Board of Management meeting dt. 20.3.2010, Agenda 17

With reference to the subject cited above, the Syllabus framed for the Post Basic B.Sc Nursing Course at Yenepoya Nursing College has been approved as per Agenda 16 of the Third Academic Council meeting held on 31st October 2009 and subsequently under Agenda 17 of the Board of Management meeting held on 20th March 2010.

This notification is issued for implementation with effect from the academic year 2009-2010.

Registrar

Registrar
Yenepoya (Deemed to be University)
University Road, Deralakatte
Mangalore 575 018

YENEPOYA
UNIVERSITY

Recognised under Sec. 3(A) of the UGC Act 1956 as per notification number F.9-11/2007.U.3(A) dated 27-02-2008

No: YU/REG/ACA/AC-9/Agenda (3-A-iii)/2012 21.04.2012

NOTIFICATION

Sub: Amendment to the Regulations governing P.B. B.Sc. (N) Course
Ref: Resolution of the Academic Council at its meeting on 19.04.2012

******

The amendment to the Regulations governing P.B. B.Sc. (N) Programme as proposed by the Faculty of Nursing is approved by the Academic Council and Board of Management at their meetings held on 19th April 2012 and is hereby notified for implementation.

REGISTRAR

To:

The Principal I/C, YNC

Copy to:

1. Controller of Examinations
2. Coordinator, NAAC
3. Academic Section

University Road, Deralakatte, Mangalore - 575 018
T :+91 824 220 4676 / 4668 / 4669 / 4671 / 2192 / 2193 F :+91 824 220 4667 E : reachus@yenepoya.org
www.yenepoya.org

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आठवाँ तल, एनबीसीसी सेन्टर, प्लॉट नं. 2, कम्यूनिटी सेन्टर, ओखला फेज - 1, नई दिल्ली - 110020

INDIAN NURSING COUNCIL
8th Floor, NBCC Centre, Plot No. 2, Community Centre
Okhla Phase - I, New Delhi - 110020

स्वास्थ्य एवं परिवार कल्याण मंत्रालय के तहत सांविधिक निकाय
Statutory Body under the Ministry of Health & Family Welfare

No. 1-2/NEC/2019-INC

Dated: 18 JAN 2019

NOTIFICATION

Sub : Integration of 'Middle-level health Provider' (MLHP) in Basic BSc.Nursing & Post Basic BSc.Nursing Curriculum

All Colleges & Universities offering Basic BSc. Nursing and Post Basic BSc. Nursing programme are hereby notified that:

The concept, roles and responsibilities of Middle-level health provider (MLHP) and the log-book prescribed by Ministry of Health & Family Welfare, Government of India to be integrated in Basic BSc. Nursing and Post Basic BSc. Nursing curriculum with effect from current academic year onwards.

Placement:

Basic B.Sc.Nursing	**Post Basic BSc.Nursing**
Subject : Community Health Nursing - II	Subject : Community Health Nursing
4th year Basic B.Sc.Nursing	2nd Year Post Basic B.Sc.Nursing

(Rathish Nair)
Secretary

Copy forwarded for information and necessary action to:

1) Secretary / AS &MD /AS(AS)/JS(HR), MoHFW, Government of India
2) Registrar, All Universities offering & examining Basic BSc.Nursing Programme
3) Registrar, All State Nursing Councils
4) Principal, All Colleges of Nursing offering B.Sc.Nursing Programme
5) INC Website

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आठवाँ तल, एनबीसीसी सेन्टर, प्लॉट नं. 2, कम्यूनिटी सेन्टर, ओखला फेज - 1, नई दिल्ली - 110020

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Statutory Body under the Ministry of Health & Family Welfare

F.No. 1-5/2018-INC

Dated :- 28 FEB 2019

Notification

Sub:- Resolutions approved by Governing Body in the Meeting held on 2.12.2018- Colour Blind Candidates for Nursing Courses reg.

The Council has resolved in its meeting held on 02-12-2018 that the Colour Blind candidates should may be considered for admission to Nursing Courses subject to the condition that Colour corrective contact lens and spectacles are worn by such candidates.

(Rathish Nair)
Secretary

Copy forwarded for information:-

1. The Registrar All Universities
2. The Registrar, State Nursing Council
3. The Principal, School/College of Nursing

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Striving to Achieve Uniform Standards of Nursing Education
Website: www.indiannursingcouncil.org E-mail: secy.inc@gov.in
Phone: 011-66616800, 66616821, 66616822

भारतीय उपचर्या परिषद्
आठवीं तल, एनबीसीसी सेन्टर, प्लॉट नं. 2, कम्यूनिटी सेन्टर, ओखला फेज - 1, नई दिल्ली - 110020

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Statutory Body under the Ministry of Health & Family Welfare

F.No.1-5 / 2018 - INC **Dated:**

NOTIFICATION 10 APR 2019

SUB: Resolution Approved By General Body in its Meeting Held on 25th & 26th November, 2017 – Admission Criteria for Disabled candidates under Nursing Programmes- reg

The Council has resolved in its meeting held on 25th & 26th November, 2017 that:

"For Disabled Candidates: 5% Disability reservation to be considered with a disability of locomotor 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 locomotor of 40% to 50%.

(Rathish Nair)
Secretary

Copy Forwarded to:

1. Registrar, All Universities offering and examining Nursing Programmes.
2. Registrar, State Nursing Councils
3. Principal, School / College of Nursing.
4. INC Website

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Striving to Achieve Uniform Standards of Nursing Education
Website: www.indiannursingcouncil.org E-mail: secy.inc@gov.in
Phone: 011-66616800, 66616821, 66616822

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University Road
Deralakatte
Mangalore - 575018
Ph: 0824-2204667/68/69/71
Fax: 0824-2203943

NOTIFICATION – 35-ACM/06/2019 dtd.27.05.2019

Sub: Integration of 'Middle – level Health Provider' (MLHP) in Post Basic B.Sc (N) Curriculum

Ref: Resolution of the Academic Council at its 35th meeting held on 24.05.2019, vide Agenda -8

******

The Academic Council at its 35th meeting held on 24.05.2019 & subsequently the Board of Management at its 46th meeting have resolved to approve the recommendation of the Faculty of Nursing for Integration of 'Middle-level Health Provider' (MLHP) in P.B.B.Sc. (N) in the curriculum of II year P.B.B.Sc. (N) as per the INC guidelines. The revised curriculum below as submitted by the Faculty of Nursing is also approved.

Subject: Community Health Nursing **Placement: II year P.B.B.Sc (N)**

Theory - 60 hours
Practical – 240 hours

SL.NO	Unit No	Name of the unit	INC prescribed hours	Hours modified	Actual content of the unit	Now Amended
1.	V	Role of the Community Health Nurse	16	Nil	National health programmes. • Maternal and child health programmes. • Family welfare and school health services. • Occupational health services • Role as a member of the health Team • Training and supervision of health care workers	Integration of Middle level health provider under Unit-V

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Statutory Body under the Ministry of Health & Family Welfare

F.No.1-2 / 2019 - INC

Dated: 13 JUN 2019

CIRCULAR

Sub: Climate Change, Air Pollution and Heat Wave and their Impact on Health- inclusion in B.Sc.(N) & Post Basic B.Sc (N) syllabus - Reg.

Climate change and air pollution are emerging as one of the high threats to human health. Air pollution has also emerged as a critical risk factor leading to common non-communicable diseases (asthma, pneumonia etc). Secretary, Department of Health & Family Welfare, Ministry of Health & Family Welfare vide her letter D.O. no. 86/NCDC/CEOH&CCH/2019-20 dated 7th May, 2019 (Copy Enclosed) has drawn attention of INC for considering the revision in Nursing Education Curricula at both undergraduate & postgraduate level to ensure the inclusion of the following topics which are not adequately addressed at present in teaching and examinations:

i. Climate Change and its impact on Health
ii. Air Pollution and its impact on Health
iii. Heat Wave and its impact on Health

Hence it is recommended to incorporate the above topic/areas in B.Sc (N) & Post Basic B.Sc (N) curricula under Community Health Nursing Subject. Accordingly it is requested that all college and universities may please take early action to implement the same so that these subjects are adequately covered in the curricula.

Yours faithfully,

(Rathish Nair)
Secretary

Encl:- As above

To

1. Registrar, All the Universities,
2. Principal, All the Nursing Colleges

Copy Also for information to :-

Shri A.K Gupta,
Deputy Secretary (Nursing & AHS)
Ministry of Health & Family Welfare
Nirman Bhawan New Delhi-110011

(Rathish Nair)
Secretary

REGULATIONS

1. Title of the course

The course is titled as Post Basic B.Sc in Nursing or P. B. B.Sc (N)

2. Eligibility

- Passed the Higher Secondary or Senior Secondary or Intermediate or 10+2 or an equivalent examination recognized by the university. Those who have done 10+1 in or before 1986 will be eligible for admission.
- Obtained a certificate in General Nursing and Midwifery and registered as R.N.R.M. with the State Nursing Registration Council.
- A male nurse, trained before the implementation of the new integrated course besides being registered as a nurse with State Nursing Registration Council, shall produce evidence of training approved by Indian Nursing Council for a similar duration in lieu of midwifery in any one of the following areas: O.T. Techniques, Ophthalmic Nursing, Leprosy Nursing, TB Nursing, Psychiatric Nursing, Neurological and Neuro surgical Nursing, Community Health Nursing, Cancer Nursing, Orthopedic Nursing.
- Student should be medically fit male or female.
- Simultaneous attendance in multiple courses is not permitted

3. Entrance/Selection test

Selection of candidates is based on marks scored in the entrance examination conducted by the university.

4. Annual intake

Students are admitted once a year. The annual intake for the course is as sanctioned by the Indian Nursing Council (INC).

5. Duration of Study

Duration of the course is two years

6. Commencement of the course

The college academic year commences in the month of August.

7. Medium of instruction

English is the medium of instruction for all the subjects of study and for examinations of the Post Basic B Sc Nursing Degree Course

8. The syllabus

The syllabus for the course is designed based on the requirements prescribed by Indian Nursing Council. Syllabus enrichment is done based on the recommendations of the Board of studies from time to time and subject to the approval of the Academic Council of the University.

9. Attendance

a. A candidate must have a minimum 80% attendance in theory and practical, in each subject, for appearing for examinations, irrespective of the kind of absence she/he may have had.

b. There shall be no condonation for any leave for any reason, including pregnancy, child birth, or medical conditions of any nature.

c. For the degree to be awarded, 100% attendance in each practical/clinics is mandatory.

d. A candidate pursuing in the course shall study in the college for the entire period as a full time student.

e. No candidate is permitted to work in a hospital/nursing home/laboratory/college while studying this course.

f. No candidate should join any other course of study or appear for any other examination conducted by this university or any other university in India or abroad during the period of registration.

10. Clinical experience

In order to provide hands on skills as part of the curriculum, the students will have to undergo clinical experience in the multispecialty medical college hospital as well as in the rural health centers attached to Yenepoya University.

11. Conduct of university examinations

The university examinations will be conducted at the end of each academic year.

12. Internal exams

a. The internal exams refer to the final examinations conducted by the college for which university examinations will not be conducted for the subject on "Introduction to Nursing Research and Statistics"

b. Obtaining Pass marks in this subject is compulsory.

13. Internal Assessment Marks

a. Internal Assessment Marks (I.A) for theory is calculated based on the sessional examination model examination and Continuous Comprehensive Assessment (CCA) consisting of unit test, assignments, presentations, project work and group work etc.

b. Internal Assessment Marks (I.A) for practical is calculated based on the model practical examinations and Continuous Comprehensive Assessment (CCA) consisting of clinical presentations and patient care assignments.

c. A candidate shall secure at least 35% of marks in internal assessments to be eligible to appear in the university examination.

14. Marks Qualifying for Pass

a. Minimum pass marks shall be 50% in each of the theory and practical papers separately.

b. Minimum pass marks shall be 33% for English only

c. A candidate has to pass in theory and practical exam separately in each of the paper.

d. The theory component consists of marks obtained in University written paper(s) and internal assessment (theory). For a pass in theory, a candidate shall secure not less than 50% marks in aggregate i.e., marks obtained in written examination and internal assessment (theory) added together. For a pass in practical examination, a candidate, shall secure not less than 50% marks in aggregate i.e., marks obtained in university practical/ examination and internal assessment (practical) added together.

e. A candidate not securing 50% marks in aggregate in theory or practical examination in a subject shall be declared to have failed in that subject and is required to appear for both theory and practical again in the subsequent examination in that subject.

f. Maximum of 5 grace marks for each subject is not permitted, and grace marks should not exceed 5 marks in total marks for one academic year in theory paper only.

15. Practical examination

a. All practical examinations are held in the respective clinical areas.

b. The maximum number of candidates for practical examination may not exceed 20 per day.

c. One internal and one external examiner appointed by the university will jointly conduct the practical examinations and viva-voce for each student.

16. Examiners

a. An examiner should be a lecturer or above in a college of nursing with M.Sc. (N) in the Concerned subject with minimum of 3 years of teaching experience.

b. Nursing faculty will be the examiner for Nursing subjects as well as the Non-Nursing subjects such as Psychology, Biochemistry, Biophysics, Microbiology and Nutrition & Dietetics. However, non-nursing faculty with M.Sc. in respective subjects can be arranged as guest lecturers/external faculty/part time faculty for teaching.

17. Carryover of failed subjects

a. If a candidate failing in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).

b. The candidate if fail in more than one/two subjects in any nursing programme they can be promoted to next year. However all papers need to be cleared before appearing in the final examination (As per INC resolution: F.No.1-5/2014-INC dated 29.10.2014).

c. The maximum period to complete the course successfully should not exceed 4 years

18. Revaluation / retotaling of answer papers

Revaluation of answer papers is not permitted. Only re-totaling of theory answer papers is allowed in the failed subjects. Application for the same should be through the institution, within 10 days from the date of announcement of results.

19. Vacation

The students will have declared vacation three times in an academic year

20. Withdrawal from the course

a. **Temporary withdrawal**

A student can withdraw from the course for a maximum period of one year with valid evidence, due to sickness or any national calamity.

b. **Permanent withdrawal**

If a student intends to discontinue the course at any time after joining and attending classes, the student shall pay the college fees and dues as applicable for the remaining years of the course and obtain a no due certificate.

c. **Migration**

In case the candidate desires to migrate during the course, a no objection certificate would be provided from the university. This is applicable only in case of sickness/disaster/loss of parents

21. Membership in Trained Nurses Association of India

The student is eligible to be the member of trained nurses association of India if not registered earlier. The prescribed fee for membership to be paid as per the notification of Trained Nurses Associations of India..

22. Dress code

The students of the course have to follow the dress code prescribed by the institution for regular classes as well as during the clinical posting.

23. Health Services

a. On admission, students will undergo a routine medical examination, and thereafter, annually

b. Free medical care during illness and/provision of health insurance is available

c. A complete health record is kept in respect of each individual student. The question of continuing the training of a student with long term chronic illness will be decided by the college

d. Vaccination against Hepatitis B and other communicable disease is provided, as deemed necessary

24. Curbing the menace of ragging in the campus

a. Ragging has been declared as a ***criminal offence*** by the Supreme Court of India Hence, any act of such kind within the campus is punishable by the law

b. On admission, every student and his/her parents have to file an **affidavit** avowing not to indulge in ragging

25. Hostel facilities

Separate hostels are provided for men and women within the campus. All the rooms are well furnished and well equipped. The students are expected to stay in the hostels throughout the period of their study. The hostels have facilities to cater to both vegetarian & non-vegetarian students. The hostels are provided with basic amenities, mess, TV room, recreation room, basketball & volleyball courts, and visitors area. Each hostel is managed by a Chief Warden and two Assistant Wardens.

26. Library

Central Library contains a collection of updated new editions of books, journals and periodicals. For the benefit of students, the central library remains open from 9am to 12 midnight.

27. Extra-curricular activities

The management believes in the adage 'sound mind in a sound body' and realizes the importance of the need for cultural and sports activities for the students.

YENEPOYA

COURSE OF I NSTRUCTION

FIRST YEAR

Sl. No.	Subject	Theory (In hrs) (class and lab)	Practical (In hrs) (clinical)
1.	Nursing Foundation	45	-
2.	Nutrition & Dietetics	30	15
3.	Biochemistry & Biophysics	30 + 30	-
4.	Psychology	60	15
5.	Microbiology	60	30
6.	Maternal Nursing	60	240
7.	Child Health Nursing	60	240
8.	Medical & Surgical Nursing	90	270
9.	English	60	-
	Total	**525**	**810**

SECOND YEAR

Sl. No.	Subject	Theory (In hrs) (class and lab)	Practical (In hrs) (clinical)
1.	Sociology	60	-
2.	Community Health Nursing	60	240
3.	Mental Health Nursing	60	240
4.	Introduction to Nursing Education	60	75
5.	Introduction to Nursing Service Administration	60	180
6.	Introduction to Nursing Research and Statistics	45	120
	Total	**345**	**855**

YENEPOYA

SCHEME OF EXAMINATION

FIRST YEAR

Ist Year		Subject Code	Duration Hours	Internal Assessment	University Examination	Total Marks
Theory paper / subjects						
1	Nursing Foundation	NP01PB-1C1	2	15	35	50
2	Nutrition & Dietetics	NP01PB-1C2	2	15	35	50
3	Sec A. Biochemistry Sec B. Biophysics	NP01PB-1C3 NP01PB-1C4	3	25	38 37	100
4	Psychology	NP01PB-1C5	3	25	75	100
5	Microbiology	NP01PB-1C6	3	25	75	100
6	Maternal Nursing	NP01PB-1C7	3	25	75	100
7	Child Health Nursing	NP01PB-1C8	3	25	75	100
8	Medical & Surgical Nursing	NP01PB-1C9	3	25	75	100
9	English	NP01PB-1L1	3	25	75	100
Practical's						
1	Medical & Surgical Nursing			50	50	100
2	Maternal Nursing			50	50	100
3	Child Health Nursing			50	50	100

SECOND YEAR

Ist Year		Subject Code	Duration Hours	Internal Assessment	University Examination	Total Marks
Theory Paper / Subjects						
1	Sociology	NP01PB-2C1	3	25	75	100
2	Community Health Nursing	NP01PB-2C2	3	25	75	100
3	Mental Health Nursing	NP01PB-2C3	3	25	75	100
4	Introduction to Nursing Education	NP01PB-2C4	3	25	75	100
5	Introduction to Nursing Administration	NP01PB-2C5	3	25	75	100
6	Introduction to Nursing Research and Statistics**	NP01PB-2C6	2	50		50
Practical's						
1	Community Health Nursing			50	50	100
2	Mental Health Nursing			50	50	100
3	Research project			50		50

QUESTION PAPER PATTERN

FIRST YEAR

NURSING FOUNDATION

Type of Question	Total No. of Questions	Marks
Long essay	1	1X10=10 marks
Short notes	2 (out of 3)	2x5=10 marks
Short answers	5	5x2=10 marks
MCQ	10	10x0.5=5 marks
TOTAL		**35 marks**

NUTRITION & DIETETICS

Type of Question	Total No. of Questions	Marks
Long essay	1	1X10=10 marks
Short notes	2 (out of 3)	2x5=10 marks
Short answers	5	5x2=10 marks
MCQ	10	10x0.5=5 marks
TOTAL		**35 marks**

SECTION : A BIOCHEMISTRY

Type of Question	Total No. of Questions	Marks
Long essay	1 (out of 2)	1X10=10 marks
Short notes	3 (out of 4)	3x5=15 marks
Short answers	4	4x2=08 marks
MCQ	10	10x0.5=5 marks
TOTAL		**38 marks**

SECTION : B BIOPHYSICS

Type of Question	Total No. of Questions	Marks
Long essay	1	1X10=10 marks
Short notes	2 (out of 3)	2x5=10 marks
Short answers	6	6x2=12 marks
MCQ	10	10x0.5=5 marks
TOTAL		**37 marks**

PSYCHOLOGY

Type of Question	Total No. of Questions	Marks
Long essay	2 (out of 3)	2x10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20 marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

MICROBIOLOGY

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

MATERNAL NURSING

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

CHILD HEALTH NURSING

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

MEDICAL & SURGICAL NURSING

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short essay	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

ENGLISH

Type of Question	Total No. of Questions	Marks
Long essay	2	2X 10 = 20 marks
Short note	2	2 X 5=10 marks
Objective Type	45	45 X 1=45 marks
TOTAL		**75 marks**

YENEPOYA

Second Year

SOCIOLOGY

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

COMMUNITY HEALTH NURSING

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

MENTAL HEALTH NURSING

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short essay	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

INTRODUCTION TO NURSING EDUCATION

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

INTRODUCTION TO NURSING ADMINISTRATION

Type of Question	Total No. of Questions	Marks
Long essay	2(out of 3)	2X10=20 marks
Short notes	5(out of 7)	5x5=25 marks
Short answers	10	10x2=20marks
MCQ	20	20x0.5=10 marks
TOTAL		**75 marks**

NURSING FOUNDATION

Placement - First Year **Theory** - 45 hours

Course Description

This course will help students to develop an understanding of the philosophy, objectives and responsibilities of Nursing as a profession. The purpose of the course is to orient one to the current concepts involved in the practices of nursing and developments in the Nursing profession

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
I	5		• Identify the professional aspects of nursing • Explain the current trends in health and Nursing • Describe the values, code of ethics & professional conduct for nurses of India	**Introduction** • Development of nursing as a profession ▪ Its philosophy ▪ Objectives and responsibilities of a graduate nurse • Trends influencing nursing practice • Expanded role of the nurse • Development of nursing education in India and trends in nursing education • Professional organizations, career planning • Code of ethics & professional conduct for nurses.	• Lecture cum discussion • Case discussion • Role plays	• Essay type • Short answer • Objective type questions
II	8		• Describe the ethical and legal responsibilities of a professional nurse • Describe the concept of health and illness • Explain the developmental stages of individual.	**Nursing as a profession** • Ethical, legal and other, issues in nursing • Concept of health and illness, effects on the person • Stress and adaptation • Health care concept and Nursing care concept • Developmental concept, needs, roles and problems of the developmental stages of individual - newborn, infant, toddlers, preadolescent, adolescent, adulthood, middle age, Old age.	• Lecture cum discussion • Case discussion • Supervised clinical practice	• Essay type • Short answer • Objective type questions
III	6		• Explain the basic concepts of conceptual and theoretical models of nursing.	**Professional Nursing care concepts and practices** • Theory of nursing practice • Metaparadigm of nursing - characterised by four central concepts, i.e.	• Lecture cum discussion	• Essay type • Short answer

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
				Nurse, person (Client / patient) health and environment. • Florence Nightingale theory • Orem's theory • General system theory		• Objective type questions
IV	10		• Explain the steps of nursing process. • Document nursing process as per the format	**The Nursing process** • Assessment : Tools for Assessment, Methods, Recording • Nursing diagnosis • Types and significance • Planning : Teaching for planning care, types of care plans • Implementation : Different approaches to care, organizations and implementation of care, recording • Evaluation : Tools for evaluation, process of evaluation, types of evaluation	• Lecture discussion • Exercise • Supervised clinical practice	• Essay type • Short answer • Objective type questions • Assessment of skills with check list
V	7		• Appreciate the significance of quality assurance in nursing • Explain the nursing practice standards.	**Nursing practice standards** • Quality assurance nursing standards, nursing audit, total quality management • Role of council and professional bodies in maintenance of standards	• Lecture cum discussion • Demonstration	• Essay type • Short answer • Objective type questions
VI	6		• Explain the role of nurse in various levels of health services.	**Nursing services in the hospital & community** • Primary health care concept ▪ Community oriented nursing ▪ Holistic nursing ▪ Primary nursing • Family oriented nursing concept ▪ Problem oriented nursing ▪ Progressive patient care ▪ Team nursing	• Lecture cum discussion • Explain using charts	• Essay type • Short answer • Objective type questions
VII	3		• Describe the principles and techniques for bio-medical waste management in supervised clinical settings	**Management of Bio-medical waste in clinical settings** • Biomedical waste management ▪ Waste sharps ▪ Solid wastes ▪ Discarded medicines ▪ Cytotoxic drugs	• Lecture cum discussion	• Essay type • Short answer • Objective type questions

References :

1. Potter P, Perry A. Fundamentals of Nursing. 1th ed. New Delhi: Elsevier Publishers; 2013.
2. Clement N. Principles and Practice of Nursing. 2nd ed. Bangalore: Emmess Publishers; 2018.
3. Taylor, Lillis, Lynn. Fundamentals of Nursing. 8th ed. New Delhi: Wolters Kluwer Publishers; 2018.
4. Doenges M. Nursing Care plans. 6th ed. America: F A Davis Publishers; 2002.

YENEPOYA

NUTRITION AND DIETETICS

Placement : First Year

Theory : 30 hours
Practical : 15 hours

Course Description :

This course is designed to provide the students with a wide knowledge of dietetics in Indian setting, that the practice of teaching optimum and realistic dietary planning can become an integral part of nursing practice.

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	7	Explain the principles and practices of nutrition and dietetics	**Introduction to nutrition and dietetics** • Balanced diet, factors on which it depends • Factors to be considered in planning • Guides available for planning • Food Hygiene, preparation and preservation • Laws regulating food hygiene ▪ Food adulteration act, ▪ Drugs and cosmetic act • Review of nutrients – micro & macro	• Lecture cum discussion	• Essay type • Short answer • Objective type questions
II	10	• Plan therapeutic diets in different settings	**Introduction to diet therapy** • Routine hospital diets • Therapeutic diet under each unit ▪ Cardiovascular diseases ▪ Gastrointestinal diseases ▪ Renal disorders ▪ Endocrine and metabolic disorders ▪ Allergy ▪ Infections and fevers ▪ Pre and post operative stage ▪ Deficiency diseases and malnutrition ▪ Overweight and underweight	• Lecture cum discussion • Diet case study	• Exercise on menu planning
III	6	Identify the nutritional needs of different age groups and plan diet accordingly	**Infant and child nutrition** • Feeding of normal infants: factors to be considered in planning, nutritional requirements • Feeding of premature infants: factors to be considered in planning, nutritional requirements • Supplementary feeding of infants: Advantage and method of introduction	• Lecture cum discussion • Demonstration	• Essay type • Short answer • Objective type questions

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			• Weaning effects on mother and child • Psychology of infant and child feeding. • Feeding the sick child, diet in diseases of infancy and childhood • Deficiency – malnutrition, under nutrition • Feeding pre-school child: factors to be considered in planning diets. • Problems in feeding		
IV	7	• Identify the need for community nutrition programme	**Community nutrition** • Need for community nutrition programme • Nutritional needs for special groups: infant, child adolescent, pregnant and lactating mother and old people • Substitutes for non-vegetarian foods. • Selection of cheap and nutritious foods • Nutrition education needs and methods • Methods of assessing nutritional status of individual / group / community • Current nutritional problems and national programmes	• Lecture cum discussion • Demonstration	• Essay type • Short answer • Objective type questions

PRACTICUM (15 hrs) :

I. Preparation of different types of foods and simple beverages.

- Clear liquids
- Full liquids
- Soft diets

II. Planning low cost menu for different age groups.

III. Planning of therapeutic diet.

IV. Dietary case study of patient on special diet.

References :

Swaminathan M. Hand book of food and nutrition. Bangalure: Bappco publication;2015

Clement I Textbook of Nutrition and Dietetics for Post Basic B Sc nursing students. Jaypee brothers medical publishers; 2015

Supriya V. Clinical nutrition and dietetics manual for nurses. Mangalure: Jaypee brothers medical publishers;2014

Singh R. Food and nutrition for nurses. Mangalure: Jaypee brothers medical publishers;2012 .

Sohi D. Acomprehensive text book of nutrition and therapeutic diets for nursing students . 2nd ed. Mangalure: Jaypee brothers medical publishers; 2018

Indrani TK. Manual of nutrition and therapeutic diet. 2nd ed. Mangalure: Jaypee brother's medical publishers; 2008

Note: latest addition

BIOCHEMISTRY & BIOPHYSICS

Placement : First year

Section A (Biochemistry) - Theory -30 hrs
Section B (Biophysics) - Theory -30 hrs

COURSE DESCRIPTION

This course introduces the basic principles of Biochemistry and Biophysics related to nursing.

OBJECTIVES

At the end of the course, the student will,

1. identify the basic principles of Biochemistry
2. synthesize the knowledge of these principles in various nursing situations

Section A: Biochemistry

Theory -30 hrs

COURSE CONTENTS

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	2	• Describe the structure • Composition and functions of cell	**Introduction** • Importance of biochemistry in nursing • Study of cell and its various components, functions • Various types of transport	• Lecture cum discussion using charts, slides • Demonstrate with the use of microscope	• Short answer questions • Objective type questions
II	4	• Explain the fluid and electrolyte balance including buffer system of the body	**Water and Electrolytes** • Water- Sources, property & functions in human body • Water and fluid balance. • Electrolytes of human body, functions, sources • Acid base balance • Buffer systems of the body • Role of lungs and kidneys in acid balance • Acid base imbalance	• Lecture cum discussion	• Short answer • Objective type questions
III	4	• Explain enzymes and their mechanism of action • Explain digestion and absorption of carbohydrates, proteins and fats	**Enzymes** • Definition, Outline of Mechanism of action • List of factors affecting enzyme activities, Km value • Isoenzymes • Types of enzyme inhibitions with examples • Diagnostic applications • Precautions for handling specimens for enzyme estimation • Digestion and absorption of carbohydrates, proteins and fats • Various factors influencing the digestion and absorption malabsorption syndrome	• Lecture cum discussion using charts, slides	• Short answer questions • Long answer questions • Objective type.

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods

IV	6	• Explain the metabolism of carbo-hydrates	**Carbohydrates**
			• Catabolism of carbohydrates for energy purposes
			• Definition, classification and functions of carbohydrates
			• Metabolic pathways for glucose
			  • Glycolysis: Definition, site, Steps, types, significance, only net gain of ATPs
			  • TCA cycle : Definition, site, Steps, significance, only net gain of ATPs
			  • Glycogen metabolism: Definition, site, significance of glycogenesis and glycogenolysis
			  • Gluconeogenisis : Definition, site, and significance
			• Mitochondrial oxidation and oxidation phosphorylation
			• Glucose tolerance test, hyperglycemia, Hypoglycemia, glycemia.
			• Diabetes mellitus - Definition,types, Biochemical tests (plasma glucose, HbA1c, GTT, Urine dipstick)
				• Lecture cum discussion using charts
				• Demonstration of laboratory tests
					• Short answer questions
					• Long answer questions
					• Objective type.

V	6	• Explain the metabolism of Amino acids and Proteins	**Proteins** • Definition, classification of proteins, essential amino acids, structural organization of proteins- definition and example for each level • Outline of Biologically important peptides • Denaturation of Proteins: definition, classification • Collagen, elastin – structure, function, distribution • Urea cycle - definition, site, steps, significance blood urea level • plasma proteins - examples and functions • Protein biosynthesis (translation) - definition,site, inhibitors	• Lecture cum discussion using charts • Demon-stration of laboratory tests	• Short answer questions • Long answer questions • Objective type.

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VI	4	• Explain the metabolism of Lipids and Fat	**Lipids** • Definition, classification, properties, function • Beta oxidation of fatty acids • Ketone bodies- names, significance, Ketosis and ketoaciodosis (causes- starvation and diabetes) • Fat : Biosynthesis of fats and storage of fats in the body • Role of liver in fat metabolism • Biological importance of important lipids and their functions • Cholesteraol : Sources occurences, distribution and functions, lipoproteins- types, importance of HDL and LDL • Fatty liver • Blood level and metabolism • Ketone bodies and utilization • Inter-relationships in metabolism and cellular control of metabolic processes	• Lecture cum discussion using charts	• Short answer questions • Long answer questions • Objective type.
VII	2	• Explain biomedical Waste management	**Biomedical Waste management** • Liquid waste generated from laboratory	• Lecture cum discussion using charts	• Short answer questions • Long answer questions • Objective type.
VIII	2	• Explain Routine bio-chemical test	**Clinical Biochemistry** • Pre examination process Routine Parameters-Renal function tests, liver function tests, Arterial blood gases, Lipid profile, cardiac markers and electrolytes	• Demonstration of laboratory tests	• Short answers • Objective types.

References :

1. Prasad RM- Textbook of nutrition and biochemistry. 5th edition. 2014
2. Nayak S-Hand book of biochemistry and nutrition (for nursing and allied health students). The health science publishers, 3rd edition,
3. Harbans L- Essentials of Biochemistry for BSc Nursing students[as per syllabus of INC for BSc(N) and BSc(N)Post Basic]. CBS Publishers and distributors Pvt. Ltd. First edition.
4. Rajagopal G-Concise text book of biochemistry. Ahuja publishing house, 2nd edition
5. Satyanarayana U, Chakrapani U-Fundamentals of Biochemistry. Books and allied (P) Ltd.
6. Sharma SK- Textbook of biochemistry and biophysics for nurses. Jaypee.1st Edition. 2014
7. Ashok Kumar J. Textbook of biochemistry for nurses. I.K International publishing house Pvt. Ltd. 2007
8. Clement I. Essentials of Nutrition and Biochemistry (for basic BSc Nursing). Jaypee. 1st edition. 2018
9. Srilakshmi P, Rambabu K. Textbook of Biochemistry for nursing students. Ahuja Publishing House. 1st edition, 2016
10. Anthikad J. Biochemistry for nurses. JAYPEE. 2ND edition

SECTION B : BIOPHYSICS

Theory – 30 hours

COURSE CONTENTS

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	1	• Describe the concept of unit & measurements	**Introduction** • Concepts of unit and measurements • Fundamentals and derived units • Units of length, weight mass, time	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions
II	1	• Explain the vector and scalar motion, speed, velocity and acceleration	**Vector and scalar motion** • Speed • Velocity • Acceleration	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions
III	2	• Describe gravity, the principles & its effects on human body	**Gravity** • Specific gravity, centre of gravity density, principles of gravity • Effects of gravitational forces on human body • Application of principles of gravity in nursing	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions
IV	2	• Describe force, work, energy & its application in nursing	**Force, work, Energy: Their units of measurement**. • Type and transformation of energy, forces of the body, statistic forces • Centrifugal and centripetal force • Principles of machines, friction and body mechanics • Simple mechanics – types of lever and lever mechanism in human body, Pulley and traction, incline plane, screw. • Application of these principles in nursing	• Lecture cum discussion using charts, slides	• Essay type • Short answer • Objective type questions
V	4	• Describe heat, humidity & its application in nursing	**Heat** • Nature, measurement, Mode of heat transfer • Gas laws • Effects of heat on matter • Relative humidity, specific heat • Relative humidity, specific heat • Calorimeter • Regulation of body temperature • Use of heat for sterilization • Application of these principles in nursing	• Lecture cum discussion using charts, slides	• Essay type • Short answer • Objective type questions

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VI	4	• Describe light, relationship between energy, frequency and wavelength of light & biological effects of light	**Light** • Laws of reflection • Focusing elements of the eye, defective vision and its correction, use of lenses • Relationship between energy, frequency and wavelength of light • Biological effects of light • Use of light in therapy • Application of these principles in nursing	• Lecture cum discussion using charts, slides	• Essay type • Short answer • Objective type questions
VII	4	• Describe pressure & its significance in health	**Pressures** • Atmospheric pressure hydrostatic pressure osmotic pressure • Measurements of pressures in the body • Arterial and venous blood pressures • Ocular pressure • Central venous pressure • Intracranial pressure • Applications of these principles in nursing	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions
VIII	2	• Describe the concept of sound, its principles & application in nursing	**Sound** • Frequency, velocity and intensity • Vocalization and hearing • Mechanism of hearing • Use of ultrasound • Noise pollution and its prevention • Application of these principles in nursing	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions
IX	6	• Explain electricity, bioelectric potentials, principles, uses & its application	**Electricity and Electromagnetism** • Nature of electricity voltage, • Electric charge, electric field, electric potential • Current, resistance and their units • Ohm's law • Bioelectric potentials • Flow of electricity in solids, electrolytes, gases and vacuum • Electricity and human body. • Electric Battery • ECG, EEG, EMG, ECT: principles, uses & its application • Pace makers and defibrillation • Magnetism and electricity • Laws of electromagnetic induction • M.R.I. scanning, CAT scan	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions
X	2	• Describe atomic energy & the instruments used	**Atomic Energy** • Structure of atom, isotopes and isobars • Radioactivity: Use of radioactive isotopes	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		for detection of ionizing radiation.	• Radiation protection units and limits, instruments used for detection of ionising radiation. X-rays • Biological effects of Radiation		
XI	2	• Describe common electronic equipments used in patient care	• **Principles of Electronics** Common electronic equipments used in patient care	• Lecture cum discussion using charts, slides	• Short answer • Objective type questions

References :

1. Sharma KS.textbook of biochemistry and biophysics for nurses:Jaypee brothers medical publishers; 2014.
2. Chawla M, Dhiman PP , Kaur KH. textbook of biophysics for post basic nursing students,4th ed: Lotus publishers; 2018.
3. Patil SL.understanding biophysics:4th ed:suman publishers;2013.
4. Pattabhi V,Gautham N.biophysics,2nd ed:Narosa publishers; 2009.

PSYCHOLOGY

Placement - First Year

Theory – 60 hrs.
Practical - 15 hrs.

COURSE DESCRIPTION

This course is designed to reorient and widen the student's knowledge of fundamentals of psychology. The student is offered an opportunity to apply the theoretical principles in the clinical setting and there by understand the psychodynamics of patient behaviour. This course would also help the student to develop an insight into her own behaviour.

OBJECTIVES

At the end of the course, the student will be able to,

1. apply psychological principles while performing nursing duties
2. distinguish the psychological processes during health and sickness
3. analyse the behaviour patterns
4. tabulate the psychological needs of the patients for planning nursing care
5. participate in psychometric assessment of the client

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
I	6		• Describe the history, scope and methods of psychology and relationship with other subjects	**Introduction** • Definition of psychology, scope and methods of psychology • Relationship with other subjects	• Lecture cum discussion • Demonstration	• Essay type • Short answer • Objective type questions
II	5	2	• Describe various cognitive process and their application	**Sensation, attention and perception** • Definitions • Sensory processes normal and abnormal attention and distraction contributory factors • Characteristics of perception • Normal and abnormal perception	• Lecture cum discussion. • Demonstration • Practice session	• Essay type • Short answers • Objective type • Practical exam
III	6	2	• Describe motivation, frustration and conflicts and their influence on behavior	**Motivation** • Definition and nature of motivation • Biological and social motives • Frustration and conflicts • Self - actualisation	• Lecture cum discussion. • Demonstration	• Essay type • Short answers • Objective type • Practical exam and viva voce

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
IV	3	3	• Explain emotions and its influence on behavior	**Emotions** • Definition of emotions • Expression and perception • Emotions in sickness	• Lecture cum discussion • Demonstration • Practice session	• Essay type • Short answer • Objective type • Practical exam and viva voce
V	4	2	• Explain the concepts of personality and application in nursing	**Personality** • Definition, constituents of personality • Personality in sickness and role of nursing	• Lecture cum discussion. • Demonstration • Practice session	• Essay type • Short answer • Objective type • Practical exam and viva voce
VI	6	2	• Describe psychology of people during the life cycle	**Psychological aspects of human behaviour** • Behaviour and sickness • Psychological needs of ▪ Child and adolescents ▪ Adult ▪ Aged ▪ Attendants ▪ Chronically ill individuals.	• Lecture cum discussion. • Demonstration	• Essay type • Short answer • Objective type • Practical exam and viva voce
VII	6	2	• Explain individual differences hereditary and environment and implication in nursing	**Individual differences** • Significance of individual difference • Heredity and environment • Role of individual differences both in health and sickness • Implications of individual differences in nursing	• Lecture cum discussion. • Demonstration Practice session	• Essay type • Short answers • Objective type • Practical exam and viva voce
VIII	4	2	• Describe intelligence, abilities and their measurements	**Intelligence and abilities** • Definition • Intelligence and abilities during sickness. • Measurement of intelligence and abilities	• Lecture cum discussion. • Demonstration • Practice session	• Essay type • Short answers • Objective type • Practical exam and viva voce

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	Th.	Pr.				
IX	5		• Explain learning and laws and their application in nursing	**Learning** • Definition, conditions of learning • Laws of learning • Learning during health and sickness	• Lecture cum discussion • Demonstration • Practice session	• Essay type • Short answer • Objective type • Practical exam and viva voce
X	5		• Describe memory, forgetting and their application in nursing	**Memory and forgetting** • Definition and nature of memory • Memory during health and sickness • Forgetting during health and sickness	• Lecture cum discussion. • Demonstration	• Essay type • Short answer • Objective type • Practical exam
XI	4		• Explain attitude and their application in nursing	**Attitude** • Definition, development and modification • Role of attitudes in health and sickness	• Lecture cum discussion. • Demonstration	• Essay type • Short answer • Objective type • Practical exam and viva voce
XII	6		• Describe the characteristics of mentally healthy person and explain ego defense mechanisms	**Mental hygiene & mental health.** • Concepts • Characteristics of mentally healthy person • Defence mechanisms	• Lecture cum discussion. • Demonstration	• Essay type • Short answer • Objective type • Practical exam and viva voce

PRACTICUM

1. Simple experiments on (1) perception (2) measuring thresholds (3) Reaction time.
2. Administration of psychological tests
3. Observation and recording data
   - i. field observation
   - ii. interview
   - iii. Care study
   - iv. Self rating.

References :

1. Babu. S, T. Gayathri. Psychology for Nurses.. 2nd edition. New Delhi :Elseiver Publishers ;2018.
2. Sreevani R. Psychology for Nurses.. 2nd edition. New Delhi:Jaypee brothers medical publishers;2013.
3. Gowda K. Essentials of psychology for BSc Nursing students.1st edition. Bangaluru: CBS Publishers;2014
4. Kutty.A.B . Psychology for BSc Nursing students. 2nd edition.Trivandrum:PHI Publishers;2019
5. Dr.Mangal.s.k. Psychology for Nurses. 1st edition. New Delhi: APC Publishers;2016
6. Konnur.R.G. Psychology for graduate nurses. 1st edition. New Delhi: Jaypee publishers; 2011

MATERNAL NURSING

Placement : First year **Theory-**60 hrs

Practical -240 hrs

COURSE DESCRIPTION

This course is designed to widen the student's knowledge of obstetrics during pregnancy, labour and puerperium. It also helps to acquire knowledge and develop skill in rendering optimum nursing care to a child bearing mother in a hospital or community and help in the management of common gynecological problems

OBJECTIVES

At the end of the course, the student will,

1. describe the physiology of pregnancy, labour and puerperium
2. manage abnormal pregnancy, labour and puerperium
3. explain the physiology of lactation and advice on management of breast feeding
4. be skilled in providing pre and post operative nursing care in obstetric conditions
5. identify and manage high risk pregnancy including appropriate referrals
6. propagate the concept and motivate acceptance of family planning methods
7. teach, guide and supervise auxiliary midwifery personnel

COURSE CONTENTS

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	5	• Recognize the trends & issues in midwifery and obstetrical nursing	**Introduction and historical review** • Planned Parenthood • Maternal morbidity and mortality rates • Legislations related to maternal benefits, MTP act, incentives for family planning etc • MTP act, PCPNDT act • Current trends in MCH	• Lecture cum discussion • Explain using charts & graphs	• Essay type • Short answers • Objective type
II	4	• Describe the anatomy & physiology of female reproductive system	**Review of the anatomy and physiology of female reproductive system** • Female pelvis (normal and contracted) • Review of foetal development	• Lecture cum discussion • Review with charts and models	• Short answers • Objective type
III	15	• Describe the diagnosis & management of women during antenatal, intranatal & postnatal period	**Management of normal Pregnancy, labor & puerperium** • Physiology of pregnancy • Signs and symptoms and diagnosis of pregnancy • Antenatal care, management of pregnancy, labour and puerperium • Pregnant women with HIV/AIDS • Management of common gynaecological problems	• Lecture cum discussion • Demonstration • Case discussion/ presentation • Health talk • Practice session • Supervised clinical practice	• Essay type • Short answers • Objective type • Assessment of skills with the checklist • Assessment of patient management problems

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
IV	5	• Identify the normal & high risk neonates and their nursing management	**The new born baby** • Care of the baby at birth including resuscitation • Essential new born care • Feeding • Jaundice and infection • Small & large for date babies • Intensive care of the new born • Trauma and hemorrhage	• Lecture cum discussion • Demonstration • Practice session • Supervised clinical practice	• Essay type • Short answers • Objective type • Assessment of skills with the checklist • Assessment of patient management problems
V	21	• Describe the identification & management of women with antenatal, intranatal & postnatal complications	**Management of abnormal pregnancy, labour and puerperium** • Abortion, ectopic pregnancy and vesicular mole • Pregnancy induced hypertension, gestational diabetes, anaemia, heart disease • Urinary infections, antepartum haemorrhage • Abnormal labour (malposition and malpresentation) • Uterine inertia • Disorders of puerperium • Management of engorged breast, cracked nipples, breast abscess and mastitis • Puerperal sepsis • Post partum haemorrhage • Inversion and prolapse of uterus, obstetrical emergencies • Obstetrical procedures i.e. forceps, vacuum, episiotomy, caesarean section	• Lecture discussion • Demonstration • Practice session • Supervised clinical practice	• Essay type • Short answers • Objective type • Assessment of skills with the checklist • Assessment of patient management problems
VI	5	• Describe indication, dosage, action, side effects & nurses	**Drugs in obstetrics** • Effects of drugs during pregnancy, labour and puerperium on mother and baby	• Lecture cum discussion • Drug book • Drug presentation	• Essay type • Short answers • Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		responsibilities in the administration of drugs used for mothers.			• Assessment of skills with the checklist • Assessment of patient management problems
VII	5	• Appreciate the importance of family welfare & role of nurses in family welfare programme	**National welfare programmes for women** • National family welfare programme • Infertility • Problems associated with unwanted pregnancy • Unwed mothers	• Lecture cum discussion • Demonstration • Practice session • Assessment of field visits & project reports	• Essay type • Short answers • Objective type • Assessment of skills with the checklist, project and field visits reports

PRACTICUM

1. The students will,
   a. Be posted in antenatal clinic, MCH clinic, antenatal ward, labour room, postnatal ward, maternity OT, MTP room
   b. Visit welfare agencies for women and write observation report
   c. Follow nursing process in providing care to 3-6 patients
   d. Write at least two nursing care studies and do a presentation
   e. Give at least one planned health teaching to a group of mothers

2. Practice following nursing procedures
   a. Antenatal & postnatal examination, per vaginal exam
   b. Conduct normal delivery, stiching of episiotomy, (For male candidates minimum conduct of 5 deliveries)
   c. Motivation of family for adopting family planning methods
   d. Motivate family for planned parenthood
   e. Assist in various diagnostic and therapeutic procedures including IUD insertion and removal

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YENEPOYA

CHILD HEALTH NURSING

Placement - **First Year**

Theory - 60 hrs.
Practical - 240 hrs

COURSE DESCRIPTION

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

Unit	Hours	Learning Objectives	Content	Teaching Learning activities	Assessment Methods
I	7	• Explain the modern concept of child care and principles of child health nursing • Describe the National policy and legislations in relation to child and welfare • List the major causes of death during infancy, early and late childhood •Describe the major function and role of the paediatric nurse in caring for a hospitalized child	**Introduction to child health nursing** • Modern concept of child care • Internationally accepted rights of the child. • National policy and legislations in relation to child and welfare • National programmes related to child health and welfare • Changing trends in hospital care, preventive, promotive and curative aspects of child health • Child morbidity and mortality rates • Differences between an adult and child • Hospital environment for a sick child • The role of child health nurse in caring for a hospitalized child • Principles of pre and post operative care of infants and children • Child Health Nursing Procedures ▪ Anthropometric measurement ▪ Restraints ▪ Nebulization ▪ Oxygen administration ▪ Steam inhalation ▪ Drug and fluid administration ▪ CPR	• Lecture cum discussion • Demon-stration of common paediatric procedures	• Essay type • Short answers • Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning activities	Assessment Methods
II	10	• Describe the normal growth and dvelopment of children at different ages • Identify the needs of children at different ages and provide parental guidance • Identify the nutritional needs of children at different ages and ways of meeting the needs • Appreciate the role of play for normal and sick children • Appreciate the preventive measures and strategies for children	**The healthy child** • Principles of growth and development • Theories of growth and development • Growth chart • Factors affecting growth and development • Growth and development from birth to adolescence • The needs of normal children through the stages of development and parental guidance • Fetal circulation • Nutritional needs of children and infants: breast feeding, exclusive breast feeding, supplementary/artificial feeding • Baby friendly hospitals concept • Value of play and selection of play material • Preventive immunization, immunization programme, cold chain • Accidents: causes and prevention	• Lecture cum discussion • Developmental study of infant and children • Observational study of normal and sick children • Field visit to Anganwadi • Clinical practice	• Essay type • Short answers • Objective type
III	4	• Provide care to normal and high risk neonate • Perform neonatal resuscitation • Recognize and manage common neonatal problems	**Nursing care of a normal newborn** • Normal newborn: Definition and characteristics • Assessment of newborn • Care of newborn • Nursing management of a low birth weight baby • Nursing management of common neonatal disorders • Organization of neonatal unit, Preventions of infections in nursery. • Neonatal resuscitation	• Lecture cum discussion • Demonstration • Practice session • Clinical practice	• Essay type • Short answers • Objective type • Assessment skills with cheklist

Unit	Hours	Learning Objectives	Content	Teaching Learning activities	Assessment Methods
IV	35	• Provide nursing care in childhood diseases • Identify measures to prevent common childhood diseases • Explain the concept of IMNCI • Explain the neonatal and childhood diseases using IMNCI approach	**Nursing management of common childhood diseases** • Nutritional deficiency disorders ▪ Marasmus, ▪ Kwashiorkor • Respiratory disorders and infections ▪ Upper respiratory tract : choanal atresia,tonsilitis, Epistaxis, ▪ Lower respiratory tract: Broncheolitis, Bronchopneumonia, Asthma, cystic fibrosis, RDS • Gastrointestinal infections, infestations and congenital disorders ▪ Gatroenteritis,worm infestation, gastro-esophageal reflux, malabsorption syndrome, malnutrition, cleft lip, cleft palate and conditions requiring plastic surgery, Tracheo esophageal fistula/Atresia, Pyloric stenosis, Hirschspring's disease, intususception, diaphragmatic hernia, intestinal obstruction, appendicitis. • Cardiovascular problems ▪ Congenital defects and rheumatic fever, cyanotic and acyanotic, rheumatic heart disease. endocarditis. • Genito urinary disorders ▪ Nephrotic syndrome, wilms tumor, infection and congenital disorders, acute glomerulo nephritis, urinary tract infection and congenital disorders, renal failure, hemolytic uremic syndrome • Neurological infections and disorders : ▪ Convulsion, epilepsy, meningitis, hydrocephalus, spina bifida, cerebral palsy, GB Syndrome • Hematological disorders ▪ Anemias, thalassemia, ITP, leukemia, hemophilia • Endocrine disorders: ▪ Growth hormone disorders, diabetes insipidus, Addison's	• Lecture cum discussion • Demon-stration • Practice session • Clinical practice	• Essay type • Short answers • Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning activities	Assessment Methods
			disease, Cushing syndrome, precocious puberty,Thyroid disorders, Juvenile diabetes mellitus • Orthopedic Disorders ▪ club foot, hip dislocation, fracture, osteogenesis imperfecta, osteomyelitis • Disorders of skin, eye and ear ▪ Scabies, dermatitis, acne vulgaris, impetigo ▪ Congenital cataract, ophthalmia neonatorum,vision disorders. ▪ Otitis media • Common communicable diseases in children, their identification, nursing management in hospital and home, prevention: ▪ Tuberculosis, diphtheria, pertusis, measles, tetanus, polio, mumps, rubella • Child health emergencies ▪ Poisoning, foreign bodies, hemorrhage, burns, drowning • Integrated management of neonatal and childhood disorders ▪ Introduction to IMNCI ⋆ Components of integrated care ⋆ Principles of integrated care ▪ IMNCI case management process A) Assessment, classification and management of young infants up to 2 months) ⋆ Possible Bacterial Infection /Jaundice ⋆ Diarrhoea or Malnutrition ⋆ Feeding Problem ⋆ Immunization Status ⋆ Other Problems ⋆ Counselling of mothers B) Assessment, classification and management of children (2 months - 5 years) ⋆ Cough or difficult Breathing ⋆ Fever ⋆ Diarrhoea ⋆ Ear Problems ⋆ Malnutrition ⋆ Anaemia		

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			⋆ Immunization Status ⋆ Feeding problems ⋆ Vitamin A and Folic acid supplementation status ⋆ Other problems ⋆ Counselling of mothers		
V	4	• Manage the child with behavioural and social problems • Identify the social and welfare services for challenged children	**Management of special children** Management of common behavioral disorders-Conduct, speech and habit disorders Management of challenged children : • Mentally challenged • Physically challenged • Socially challenged • Welfare services for challenged children in India • Child guidance clinic	• Lecture cum discussion • Field visit to child guidance clinic and special school	• Essay type • Short answers • Objective type

PRACTICUM

The student will

1. Be posted in paediatric medical and surgical ward, OPD in hospital and health centre, PICU and neonatal unit
2. Visit a centre for handicapped children and child welfare centre and write observation report
3. Write an observation study of normal children at various age groups in home/Nursery school/Crèche
4. Follow nursing process in providing care to 3-6 children.
5. Write at least two nursing care studies and do a presentation
6. Give two planned health teachings, one in hospital and one in OPD / health centre
7. Practice the following nursing procedure.
   - Taking paediatric history
   - Physical assessment of children
   - Baby bath
   - Feeding.
   - Restraining
   - Calculation of dosage of drugs and administration of medications and injuctions
   - Collection of specimens
   - Enema, bowel wash, colostomy irrigation
   - Steam and Oxygen inhalation
   - Preparation to assist with diagnostic test and operations
   - Examination/ assessment of a newborn
   - Neonatal resuscitation
   - Care of a baby in incubator and on ventilator
   - Photo therapy
   - Assist in exchange transfusion and other therapeutic procedures

References :

1. Marlow's. Text book of pediatric Nursing.South Asian Edition.Elsevier publication;2013.
2. Wong's. Essential of pediatric nursing..1st south Edition ;2015
3. Meharban Singh.Essential pediatrics for Nurses.4th edition.CBS publication and distributors Pvt.Ltd;2016
4. Soumya Kurisa.Text book of pediatrics Nursing.1st edition. Emmess medical publishers;2016
5. Paul Dartta.Pediatric Nursing, 4th edition. CBS publisher's and distributors Pvt.Ltd; 2016
6. Piyush Gupta.Essentials Pediatric Nursing.Fourth Edition.CBS publisher's and distributors Pvt. Ltd; 2016

MICROBIOLOGY

Placement : First year

Theory - 60 hrs
Practical - 30 hrs

COURSE DESCRIPTION

This course reorients the student to the fundamentals of microbiology and its various sub- divisions. It provides opportunities to gain skill in handling and use of microscope for identifying the various micro-organisms. It also provides opportunities to safe handling of materials containing harmful bacteria and methods of destroying micro-organisms.

OBJECTIVES

At the end of the course, the student will,

(1) identify common disease producing micro-organisms

(2) explain the basic principles of microbiology and their significance in health and disease.

(3) demonstrate skill in handling specimens.

(4) explain various methods of disinfections and sterilization.

(5) identify the role of the nurse in hospital and infection control system.

COURSE CONTENTS

Unit	Theory Hrs.	Practical Hrs.	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	2	3	• Describe structure, classification, morphology and growth of bacteria	**Structure and classification of microbes**. • Morphological types. • Size and form of bacteria • Motility • Classification of Micro-organisms.	• Lecture cum discussion • Demonstration	• Long Essay • Short answers • Objective type
II	4	4	• Explain the concepts of immunity, hypersensitivity and immunization	**Immunity** • Immunity and hypersensitivity - skin test Antigen Antibodies- IgG, IgM, IgA • Antigen and antibody reaction • Immunization schedule	• Lecture cum discussion • Demonstration • Clinical practice	• Long essay • Short answers • Objective type
III	2	4	• Identify micro-organisms	**Identification of micro-organisms** • Discussion of laboratory methods ⋆ Staining techniques (Gram staining, Acid fast) ⋆ Hanging drop preparation culture media (definition & Examples) • Diagnosis of bacterial diseases	• Lecture cum discussion • Demonstration	• Long Essay • Short answers • Objective type
IV	3	2	• Describe the growth and nutrition of various microbes	**Growth and nutrition of microbes** • Temperature • Moisture • Blood	• Lecture cum discussion • Demonstration	• Long Essay • Short answers • Objective type

Unit	Theory Hrs.	Practical Hrs.	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
V	5	5	• Describe the methods of infection control • Identify the role of nurse in hospital infection control programme	**Destruction of micro-organisms** • Sterilization and disinfection • Chemotherapy and antibiotics • Effects of heat and cold • Hospital infection control • Procedure and role of nurses	• Lecture cum discussion • Demonstration • Clinical Practice	• Long essay • Short answers • Objective type
VI	2	2	• Describe the different disease producing organisms	**Disease producing micro-organisms** • Gram positive bacilli • C.Diphtheriae, Cl.tetani, Cl.perfringens • Tuberculosis and Leprosy • Anaerobes • Cocci Staphylococci, streptococci, Pneumococci • Spirochete • Ricketasiae	• Lecture cum discussion • Demonstration • Clinical practice	• Long essay • Short answers • Objective type
VII	2	2	• Describe the different disease producing Fungus	**Pathogenic fungi** • Dermatophytes • Systemic mycotic infection • Opportunistic infection- Candida • Laboratory diagnosis of mycotic infection	• Lecture cum discussion • Demonstration • Clinical practice	• Long essay • Short answers • Objective type
VIII	3	2	• Describe the different disease producing parasites and vectors	**Parasites and vectors** • Characteristics and classifications of parasites • Malaria • Protozoal infection including amoebiasis • Helmintheiasis infection. • Ascariasis, tapeworm, hookworm-ancylostomiasis • Diagnosis of parasitic infection • Vectors and disease transmitted by them	• Lecture cum discussion • Demonstration • Clinical practice	• Long essay • Short answers • Objective type
IX	3	2	• Describe the different disease producing viruses	**Viruses** • Classification and general character of viruses • Diseases caused by viruses in man and animal and their control • Polio • Arbovirus • Dengue Virus • HIV • Hepatitis-HAV, HBV, HCV	• Lecture cum discussion • Demonstration • Clinical practice	• Long essay • Short answers • Objective type

Unit	Theory Hrs.	Practical Hrs.	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
X	2	2	• Describe the different organisms producing food poisoning	**Micro-organism** • Food poisoning • Food Borne infections	• Lecture cum discussion • Clinical practice	• Long essay • Short answers • Objective type
XI	2	2	• Describe the methods of biomedical waste management	**Biomedical waste management** • Microbiology and biotechnology waste. • Hospital acquired infections • Animal waste	• Lecture cum discussion • Demonstration • Visits to CSSD • Clinical practice	• Long essay • Short answers • Objective type

UNIT - I
Practical :
Use and care of microscope
Common examination: blood smear, yeast, moulds.

UNIT – II
Practical :
Staining technique - gram staining, acid fast staining, and hanging drop preparation.

UNIT - III
Practical :
Preparation of media and culture technique
Collection, handling and transportation of various specimens.

UNIT - IV
Practical :
Sterilization methods - physical, chemical and mechanical.

UNIT - V
Practical :
Identification and study of the following bacteria - strepto-cocci, pneumococci, and staphylococci, corynebacteria, spirochetes and gonococci, enteric bacteria and unitary organisms, posting in infection control dept.

UNIT - VI

UNIT - VII

Practical
Demonstration of serological methods

UNIT - VIII

Practical
Identification of parasites and Vectors

UNIT - IX
UNIT - X
UNIT - XI

PRACTICUM
Each student will practice in the laboratory twice a week for 2 hours a day. They will practice as indicated in each unit of the course outline. While giving nursing care in the ward they will practice collection and processing of specimens, prevention and control of hospital infections, sterilisation, immunisation, chemotherapy and maintenance of personal and environmental hygiene. Observational visit to incinerator, posting in C.S.S.D., infection control department and Biomedical waste management.

References :

1. Baveja CP. Text book of Microbiology for Nurses. 5th ed. New Delhi: Arya Publishers; 2018.

2. Ananthanaran, Paniker. Text book of Microbiology for Nurses. 2nd ed. Chennai: Universities press Publishers; 2016.

3. Gupte S. The short textbook of Medical Microbiology. 8th ed. Noida: Jaypee Publishers; 2002.

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5. Arora DR, Arora BB. Essential of microbiology for B.Sc Nursing students. 1st ed. New Delhi: CBS Publishers; 2017.

6. Shenoy S, Dominic S. Essential Microbiology for Nurses. 1st ed. Bangalore: Emmess Publishers; 2007.

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YENEPOYA

MEDICAL SURGICAL NURSING

Placement - First year

Theory - 90 hrs

Practical - 270 hrs

COURSE DESCRIPTION

The purpose of this course is to widen the student's knowledge and develop proficiency in caring for patients with medical surgical problems. This course includes review of relevant anatomy and physiology, pathophysiology in medical surgical disorders and the Nursing management of these conditions.

COURSE CONTENTS

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	03	• Describe various concepts of comprehensive nursing care in medical and surgical conditions	• Introduction to medical surgical Nursing • Review of concepts of comprehensive nursing care in medical surgical conditions • Nurse, patient and his/her family • Functions of nurse in outpatient departments • Intensive care unit	• Lecture cum discussion • Explain using charts, graphs	• Short answers • Objective type
II	04	• Describe the common signs, symptoms, problems and their specific nursing interventions	• History collection and assessment • Nursing management of patients with specific problems + Fluid and electrolyte imbalance + Dyspnea and cough, respiratory obstruction + Fever + Shock + Unconsciousness + Pain + Acute illness + Chronic illness + Terminal illness + Age related illness + Patient undergoing surgery + Incontinence • Drugs used in the management of these patients	• Lecture cum discussion • Seminar • Class discussion.	• Short answers • Objective type
III	09	• Describe the etiology, pathophysiology, clinical manifestations,	• History collection and assessment • Nursing management of patient with neurological & neuro surgical conditions • Review of anatomy and physiology of the nervous system • pathophysiology, diagnostic procedures and management of + Cerebrovascular accidents	• Lecture cum discussion • Explain using charts, graphs • Models, films, Slides • Demonstration • Practice session	• Essay type • Short answers • Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		diagnostic measures and management of patients with neurological disorders	✦ Cranial, spinal and peripheral neuropathies ✦ Headaches and intractable pain ✦ Epilepsy ✦ Infections and inflammatory diseases and trauma of nervous system ✦ Recent advances in diagnostic and treatment modalities ✦ Tumours of brain & spinal cord, congenital malformations, degenerative diseases • Drugs used in these disorders	• Case discussion/ Seminar • Health Education • Supervised clinical practice • Drug book/ presentation. • Visit to rehabilitation centre.	• Assessment of skills with check list • Assessment of patient management problem
IV	09	• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with cardio vascular problems • Describe the vascular condition and its nursing management.	• History collection and assessment • Nursing management of patients with cardiovascular problems • Review of anatomy & physiology of cardio vascular system • pathophysiology, diagnostic procedures. management of ✦ Ischemic heart diseases ✦ Cardiac arrhythmias ✦ Congestive heart failure ✦ Rheumatic and other Valvular heart diseases ✦ Endocarditis, cardiomypathies, congenital heart diseases, Hypertension, Heart Block, cardiac emergencies - Cardiac arrest, acute pulmanary oedema, cardiac tamponade, cardiogenic shock, Aneurysms and peripherovascular disorders, recent advancement in cardiology • Drugs used in the management of these patients	• Lecture cum discussion • Explain using charts, graphs • Models, films, Slides • Demonstration • Practice session • Case discussion / Seminar • Health Education • Supervised clinical practice • Drug book / presentation. • counseling	• Essay type • Short answers • Objective type • Assessment of skills with check list • Assessment of patient management problem
V	08	• Describe the etiology, patho-	• History collection and assessment • Nursing management of patients with respiratory problems • Review of Anatomy and	• Lecture cum discussion • Explain using charts, graphs	• Essay type • Short answers

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		physiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly)with disorders of respiratory systems.	Physiology of Respiratory system • Pathophysiology, diagnostic procedures and management of upper respiratory tract infections ✦ Bronchitis ✦ Asthama ✦ Emphysema, Empyema, Atelectasis,COPD, Bronchiectasis ✦ Pneumonia ✦ Pulmonary Tuberculosis ✦ Lung abscess ✦ pleural effusion ✦ Tumours and cysts ✦ Chest injuries ✦ Respiratory arrest and insufficiency ✦ Pulmonary embolism • Drugs used in the management of these patients • Special respiratory therapies	• Models, films, slides • Demonstration • Practice session • Case discussion/ Seminar • Health education • Supervised clinical practice • Drug book / presentation.	• Objective type • Assessment of skills with check list • Assessment of patient management problem
VI	07	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with disorders of genito-urinary system	• History collection and assessment • Nursing management of patients with renal problems • Review of anatomy and physiology of the urinary system. • Pathophysiology, diagnostic procedures and management of ✦ Nephritis ✦ Renal culculus ✦ Acute renal failure; Chronic renal failure ✦ End stage of renal diseases • Special procedures and renal transplant • Drugs used in management of these patients • Congenital disorders,urinary infections • Benign prostate hypertrophy	• Lecture cum 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 answers • Objective type • Assessment of skills with check list • Assessment of patient management problem
VII	07	• Describe the etiology, pathophysiology, clinical mani-	• History collection and assessment • Nursing management of patients with problems of the Digestive system • Review of anatomy and physiology of gastrointestinal systems & Accessary organs • Pathophysiology, diagnostic	• Lecture cumb discussion • Explain using charts, graphs • Models, films, Slides	• Essay type • Short answers • Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		festation, diagnostic measures and management of patients (adults including elderly) with disorders of digestive Systems.	procedure and management of ✦ G.I.Bleeding ✦ Peptic ulcer ✦ Infections ✦ Acute abdomen ✦ Colitis,diarrhea, dysentery & mal-absorption syndrome ✦ Cholecystitis ✦ Hepatitis, Hepatic coma and cirrhosis of liver ✦ Portal Hypertention ✦ Pancreatitis ✦ Tumours, hernias, fistulas, fissures, hemorrhoids • Drugs used in the management of these patients	• Demonstration • Practice session • Case discussion / Seminar • Health Education • Supervised clinical practice • Drug book / presentation.	• Assessment of skills with check list • Assessment of patient management problem
VIII	06	Describe the etiology, patho-physiology, clinical manifestations, diagnostic measures and management of patients with disorders of endocrine system	• History collection and assessment • Nursing management of patient with endocrine problems • Review of Anatomy and Physiology and patho-physiology of patients with ✦ Thyroid disorders ✦ Diabetes mellitus ✦ Diabetic insipidus ✦ Adrenal tumours ✦ Pituatory disorders • Diagnostic procedures • Nursing management of patient with above problems • Drugs used in endocrine problems	• 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 answers • Objective type • Assessment of skills with check list • Assessment of patient management problem
IX	07	• Describe the etiology, patho-physiology, clinical manifestations, diagnostic	• History collection and assessment • Nursing management of patients with musculo skeletal problems • Review of Anatomy and Physiology and Pathophysiology ✦ Arthritis, osteomylitis, bursitis, ✦ Fractures, dislocation and trauma ✦ Prolopsed disc ✦ Osteomalacia and Osteoporosis ✦ Tumour	• Lecture Discussion • Explain using charts, graphs • Models, films, Slides • Demonstration	• Essay type • Short answers • Objective type • Assessment of skills with check list

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		measures and management of patients (adults including elderly) with disorders of musculo-skeletal system	✦ Amputation • diagnostic propcedures • nursing management of patient with above problems • Prosthesis and Rehabilitation • Transplant & replacement surgeries • Drugs used in the management of these patients	• Practice session • Case discussion / Seminar • Health education • Supervised clinical practice • Drug book / presentation.	• Assessment of patient management problem
X	05	• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with disorders of female reproductive System	• History collection and assessment • Nursing management of patients with disorders of female reproductive tract • Disorders of menstruation • Infections of the genital tract • Benign and malignant tumours of the Genital tract • R. V. F., V. V. F., • Climatic changes and associated problems • Drugs used in the management of there patients	• Lecture cum 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 answers • Objective type • Assessment of skills with check list • Assessment of patient management problem
XI	05	• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of	• History collection and assessment • Nursing management of patient with oncological disorders • Types of neoplasms and related pathophysiology • Diagnostic procedures • Modalities of treatment and nurses role • Special therapies, chemotherapy and Radiotherapy • Preventive measures and other therapies	• Lecture cum discussion • Explain using charts, graphs • Models, films, Slides • Demonstration • Practice session	• Essay type • Short answers • Objective type • Assessment of skills with check list

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		patients with oncology	• Drugs used in the management of there patients • Condition of integumenary system eg. Utricaria, psoriasis, dermatitis, burns	• Case discussion / Seminar • Health education • Supervised clinical practice • Drug book / presentation.	• Assessment of patient management problem
XII	04	• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients with burns, reconstructive and cosmetic surgery	• History collection and assessment • Nursing management of patients with burns • Nursing management of patients with reconstructive surgeries • Drugs used in the management of there patients	• Lecture cum 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 answers • Objective type • Assessment of skills with check list • Assessment of patient management problem
XIII	03	• Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including	• History collection and assessment • Nursing management of patients with common communicable diseases & STD • Nursing management of patients with immonological disorders including HIV/AIDS	• Lecture cum discussion • Explain using charts, graphs • Models, films, Slides • Demonstration • Practice session • Case discussion/ Seminar • Health	• Essay type • Short answers • Objective type • Assessment of skills with check list • Assessment of patient management problem

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		elderly) with communicable diseases and STD		Education • Supervised clinical practice • Drug book/ presentation	
XIV	04	Describe the etiology, pathophysiology, clinical manifestation, diagnostic measures and management of patients with disorders of Ear, Nose and Throat and STD	• History collection and assessment • Nursing management of patients with – diseases of eye, ear, nose, throat & STD • Drugs used in the management of there patients	• Lecture cum 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 answers • Objective type • Assessment of skills with check list • Assessment of patient management problem
XV	05	Describe the etiology, pathophysiology, clinical manifestations, diagnostic measures and management of patients (adults including elderly) with blood disorders	• History collection and assessment • Nursing management of patients with blood disorders • Review of Anatomy and physiology of blood & blood disorders • Pathophysiotherapy, diagnostic procedures and management of blood disorders ✦ Anemia ✦ Leukemia ✦ Bleeding disorders ✦ Hemophelia ✦ Purpura • Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion	• Lecture cum discussion • Explain using charts, graphs • Models, films, Slides • Demonstration • Practice session • Case discussion / Seminar • Health Education • Supervised clinical practice	• Essay type • Short answers • Objective type • Assessment of skills with check list • Assessment of patient management problem

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			• Management and counseling of blood donors, phlebotomy procedure, and post donation management • Blood bank functioning and hospital transfusion committee	• Drug book / presentation. • Visit to blood bank • Participation in blood donation camps • counseling	
XVI	04	• Describe organization of emergency services • Describe the role of nurse in management of common Emergencies.	• Nursing in emergencies • Cardiac emergency • Trauma • Poisoning • Crisis management, Thyroid crisis, Hypertensive crisis, Adrenal crisis	• Lecture cum 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 answers • Objective type • Assessment of skills with check list • Assessment of patient management problem

References :

1. Sharma SK, Madhavi S. Brunner and suddarth's textbook of Medical Surgical Nursing. 1st ed. New Delhi: Wolters Kluwer Publishers; 2018.
2. Venkateshan B. Textbook of Medical Surgical Nursing for B.Sc Nursing. 1st ed. Banglore: Emmess Publishers; 2015.
3. Lewis, Dirksen, Heitkemper, Bucher. Lewis Textbook of Medical Surgical Nursing. 2nd ed. New Delhi: Elsevier Publishers; 2015.
4. Clement I. Textbook of Neurological and Neurosurgical Nursing. 1st ed. Banglore: Jaypee Publishers; 2015.
5. White L, Duncan G. Medical surgical Nursing. Integrated approach. 1st ed. New York: Delmar Publishers; 1998.
6. Swash M. Hutchison's clinical methods. 21st ed. London: saunders Publishers; 2002.
7. Devitta VT, Hellman S, Rosenberg S. Cancer principles and practice of oncology. 6th ed. US. Williams and Wilkins Publishers; 2001.
8. Lippincott. Manual of Nursing practice. 10th ed. New Delhi: Wolter Kluwer Publishers; 2014.
9. Black MJ. Text book of medical surgical nursing. 8th ed. New Delhi: Saunders Publishers; 2012.

ENGLISH

Placement : First Year **Theory** - 60hrs

COURSE DESCRIPTION

This course is designed to help the student understand and usage of English language required for their professional work.

OBJECTIVES

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

1. ability to speak and write grammatically correct English
2. effective skill in reading and understanding the English language
3. skill in reporting

COURSE CONTENTS

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	10	• Speak & write grammatically correct English	**Remedial study of grammar** • Review of grammar, like Tenses, Prepositions, Verbs, Comparative and superlative adjectives, prepositions conjunctions and reported speech vocabulary and effective use of dictionary like Tenses, Prepositions, Verbs, Comparative and superlative adjectives, prepositions conjunctions and reported speech • Prepare task oriented seminars • Symposia and panel discussion	• Demonstrate use of grammar dictionary • Exercise on use of grammar • Organize the panel discussion	• Objective type • Fill in the blanks
II	15	• Develop the ability to understand selected passage, express meaning & ompre-hensive reading of the prescribed books	• The ability to understand selected passage and express meaning in one's own war. • Reading and comprehension of the prescribed books.	• Demonstrate the use of reading and comprehension of the prescribed books	• Objective type • Fill in the blanks
III	20	• Develop writing skills	**The study of various forms of composition** • Note taking • Dairy • Nurses notes, anecdotal records • Writing of summary • Nurses reports on health problems	Exercise on ▪ Note making ▪ Nurses notes ▪ Anecdotal records ▪ Diary writing ▪ Reports on health problem	• Assess-ment of the skills based on the checklist.

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			• The student will submit one sample of each item from her on practical experience • News report writing • Writing various formal letters • Notice writing on various occasions and events • Dialogue writing • Reviewing the selected materials or books in one's ward • E-mail writing	▪ Discussion on summary writing, practical experience	
IV	15	• Develop Writing & listening skills	**Verbal communication** • Oral reports • Summarization of discussion • Debate • Listening • Comprehension - Film Cassette and Radio **Phonetics** • Learning British American Accent of the English Words • Ability to Differentiate between the two	Exercise on Listening to audio, video tapes and identify the key points, accent & information pattern	• Assessment of the skills based on the checklist.

PRACTICUM

The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfill the objectives of learning language, Assignment on writing and conversation through participation in discussion, debates, seminars and symposia. The students will gain further skills in task oriented communication.

References :

1. Lohumi R , Lohumi S. English for Nurses . Delhi : Reed Elsevier India ;2015
2. Murphy R. English Grammar in Use: A Self-study Reference and Practice Book for Intermediate Students of English ; with Answers. US:Cambridge University Press; 2011.
3. Green D. Contemporary English Grammar Structures & Composition. India: Macmillan Publishers India Limited; 2000.
4. Farlex . Complete English Grammar Rules: Examples, Exceptions, Exercises, and Everything You Need to Master Proper Grammar. CreateSpace Independent Publishing Platform;2016.
5. Anujeet. Radical English for nurses.Delhi: Jaypee brothers medical publishers;2010.
6. Tilak S. Better English for nurses. Mumbai: Vora Medical publications;2005.
7. Lohumi S. Remedial English for nurses. Jalandhar : PeeVee; 2005
8. Padmavathi M. Facilitating Effective Communication in English For Nurses. Bangalore : EMMESS;2012.
9. Das PC. Key to applied English grammar and composition . Kolkata: New Central Book agency ;2012.
10. Koorkkakala T. Communicative English for BSc Nursing Students. Kerala: KJ publications;2007

SOCIOLOGY

Placement : Second Year **Theory -** 60hrs

COURSE DESCRIPTION

This course is to reorient students to sociology related to community and social institution in India and its relationship with health, illness and nursing.

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	4	• Discuss the sociological concepts that are applicable to nursing	**Introduction** • Importance of study of sociology in nursing, relationship of anthropology, sociology etc • Role of social factors in health and disease	• Lecture cum discussion	• Unit test
II	5	• Describe the interrelationship of individual in society	**Individual and the society** • Socialization • Interdependence of individual and society. • Personal disorganisation.	• Lecture cum discussion	• MCQ test • Assignment
III	5	• Describe the influence of culture on health and disease	**Culture** • Nature of culture • Evolution of culture • Diversity and uniformity of culture • Influence on health and disease	• Lecture cum discussion • Panel discussion	• MCQ test
IV	15	• Identify various social groups and their interactions	**Social organisation** • Social groups, crowds and public groups, nations, race. • Social institutions: the family marriage, education, religion, arts, economic organization, political organisation. • The urban & rural community in India : ecology, characteristics of the village, characteristics of the town and city. • Social satisfaction: class and caste.	• Lecture cum discussion	• MCQ test • Assignment
V	10	• Discuss on social process and social control.	**Social process and social control** • Process of social interaction : competition, conflict-war, cooperation, accommodation and assimilation. • Nature and process of social control, norms and values, folk ways, customs, law and fashion.	• Lecture cum discussion	• MCQ test

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VI	6	• Explain the process of social change	**Social change** • Nature and process of social change: Factors influencing cultural change. • Cultural lag. • Role of nurse – change agents.	• Lecture cum discussion	• MCQ test
VII	15	• Describe the role of nurse in dealing with social problems in India	**Social problems** • Social disorganisation, control and planning, poverty, population, housing, illiteracy, food supplies, growth of urbanisation, prostitution, minority groups, right of women and children, child labour, child abuse, delinquency and crime, substance abuse. • Social welfare programmes in India.	• Lecture cum discussion • Seminar	• Unit test

References :

1. Vidya B,Sachdeva.Introduction to sociology, 47 ed.Kitab mahal; 2015.
2. Clement I.sociology for nurses,2 ed.India:Pearson education;2014.
3. Neeraja KP.textbook of sociology,2 ed.Jaypee brothers;2018.
4. Ganesh P.textbook of sociology for BSc nursing,EMMESS medical publishers;2018.

COMMUNITY HEALTH NURSING

Placement : Second Year **Theory :** 60 Hrs.
Practical : 240 Hrs.

COURSE DESCRIPTION

The course enables the students to understand the national health care delivery system and to participate in the delivery of community health nursing

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	4	• Explain the concepts of various factors contributing to the health of individual, family and community.	**Introduction** • Introduction to community health concepts • Principles and elements • Introduction to community health nursing • Concept, objective, scope and principles • Levels of health care • Primary health care ▪ Concepts, elements, principles • Role and functions of community health nurse	• Lecture cum discussion, • Model preparation & explanation	• Unit test • MCQ
II	8	• Discuss the family health services and apply the nursing process in the community	**Family health services** • Concept, objective, scope and principles • Individual, family and community as a unit of service • Principles and techniques of home visiting, Bag technique • Establishing working relationship with the family • Working with families in relation to prevention of diseases • Family coping index • Health promotion and maintenance • Care of the sick in the home, Care of differently abled- physical and mental • Nursing process application in community health nursing	• Lecture cum discussion, • Eco map and explanation.	• Unit test • MCQ test
III	10	• Explain the health services in India.	**Health services in India** • Health care in India ▪ Historical perspective • Health committees • National health policy (1983, 2002, 2017)	• Lecture cum discussion. • Visits, transact walk, Venn	• Unit test • MCQ test • Assign-ments

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			• Population policy • Health care delivery system in India • Organization of health care ▪ Central, state, district, and community level • Sector wise health care delivery system in India • Health team ▪ Concept, composition, functions and responsibilities. (Indian Public Health Standard (IPHS)) • Role of health personnel in the community • Public Health Legislation ▪ Concepts, MTP act Food safety and standards act, consumer protection act	diagram, daily activity profile	
IV	4	• Discuss the role of the community health nurse in health education	**Health Education / IEC** • Aims, concepts, scope, principles of health education. • Methods and media for health education programmes. • National plan for health education. • Planning for health education and role of nurse. • Communication ▪ Process, types, technique & barriers. ▪ Health communication- Functions of health communication.	• Lecture cum discussion, • AV aid preparation and display • Group activities on communication	• MCQ test
V	16	• Discuss the role of the community health nurse in the national health programme.	**Role of The Community Health Nurse** • National health programmes. • Pulse Polio programme, National Vector born Disease Control Programme, National Leprosy eradication programme, Revised national tuberculosis control programme, national AIDS/HIV control programme,National nutritional programme, National Mental Health Programme ▪ Maternal and child health programmes.	• Lecture cum discussion • Seminar • Projects • Field visits	• MCQ test • Presentation • Assignment

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			▪ Family welfare and school health services. ▪ Occupational health services • Role as a member of the health team • Training and supervision of health care workers		
VI	10	• Describe epidemiological methods and principles of prevention and control of illness in the community	**Epidemiology** • Terminologies in epidemiology • Definition – concepts, aims, tools of measurements, methods, principles and uses • Natural history of disease • Dynamics of disease transmission • Mode of transmission • Levels of prevention • Application of epidemiology, principles and concepts in community health • Health surveillance and monitoring.	• Lecture cum discussion • web development.	• MCQ test • Assignment
VII	8	• Discuss the importance of Biostatistics and vital statistics in community health nursing	**Bio-statistics and vital statistics** • Introduction. • Definition and scope, legislation. • Management information system: definition, uses, types, steps in MIS development. • Health monitoring through MIS • Role of MIS coordinator in developing MIS. • Health Information System: definition, components, uses, sources of health information. • Report, recording and compiling of vital statistics at the local, state, national and international level. • Vital statistics: Methods of presenting data.	• Lecture cum discussion	• Assignment • MCQ test

Middle Level Health Provider (MLHP)

In continuation of notification No. 1-2/NEC/2019-INC dated 12th February, 2019. The total number of hours to incorporate in the existing Community Health Nursing subject is around 75 hours (theory + practical) in the P.B.B.Sc(N) in CHN

The following topics to be incorporated in the Community Health Nursing subject P.B.B.Sc nursing syllabus

Unit I (topics to be reviewed)

1. Health planning and health care delivery system in India(IPHS guidelines)
2. Health management information system(HMIS)
3. Electronic medical records (EMR)
4. Micro birth planning
5. Adolescent counseling
6. Sources of vital statistics
7. Financial management, accounts and computing at sub center
8. Mental health act, drug de-addiction programmes
9. Time trends in disease occurrence in epidemiology
10. Infant and young child feeding and counseling
11. Nutrition across life cycle and update on national nutritional programme
12. Use of equipment
13. Throat problems and febrile seizure in children
14. Transportation of baby and common accidents and mishaps in labour room
15. Counseling –GATHER Approach
16. Update biomedical waste management by specifying biomedical waste management rules 2016
17. Suturing of superficial wounds
18. Postpartum intra Uterine Contraceptive Device(PPIUCD)
19. All the national health programmes on communicable, non communicable

Unit II

1. Roles and responsibilities of Mid-Level Healthcare Provider(MLHP)
2. New national health programmes
3. AYUSHMAN BHARAT- The upgradation of sub-centers into of health and wellness centers, concept of compressive primary health care and key elements of CPHC, service delivery and continuum of care and roles of midlevel health care providers
4. Diagnosing and treatment skills essential at sub center level using standard treatment protocols as per national health programmes
5. Introduction to Rashtriya Bal Suraksha Karyakram (RBSK)
6. Social mobilization skills
7. Drug dispensing
8. Programme management including supervision and monitoring
9. Investigation of an out break
10. Behavior change communication and soft skills

11. Integrated disease surveillance project (IDSP)
12. Mother and child tracking system (MCTS)
13. Chickungunya
14. Organization of labour room
15. Safe child birth checklist
16. Postpartum visits by health workers
17. Family planning 2020
18. National family planning programmes
19. Food born disease

PRACTICUM

- Each student will prepare a community profile.
- The student will be allotted families for gaining experience in identifying family health needs, health counselling and guidance and family budgeting for optimum health.
- The students will participate in the activities of Primary Health Centre, Sub centre, MCH centre
- Visits will be made to selected health and welfare agencies, water purification plant and sewage disposal plant, infectious disease hospital.
- Conduct health education programmes for individual/group/community.

References :

1. Park J E & K Park, Text Book of P & S.M., M/s Banarsidasm Bhanot,25th edition Jabalpur, 2019
2. Mahajan B K and M/C.Gupta, Text Book of P & S.M, 4th edition Jaypee Publications, 2013.
3. Gulani K. K, community health nursing, principles and practices.2nd edition, Kumar Publishing House, 2014.
4. S.Kamalam, Essentials in Community Health Nursing Practice, 2nd edition, Jayapee Brothers Medical Publishers,2011.
5. Basvantappa B.T, 'Community Health Nursing' 2nd edition, Jaypee Publications, 2008.
6. Rao Kasturi, 'An Introduction To Community Health Nursing', I publications,
7. Jayawanti, TNAI Nursing Manual, TNAI publication
8. Stanthope Lancaster, 'Community Health Nursing Process & Practice', Popular publication.
9. J. Kishore , National health programmes, CBS publishers and distributors.
10. Saunder, 'Essentials of Community based Nursing', Jones & Balet Publications

❖ NOTE : (students have to refer the latest edition of each book)

MENTAL HEALTH NURSING

Placement : Second Year **Theory :** 60 hrs.
Practical : 240 hrs.

COURSE DESCRIPTION

This course enables the students to recognise and appreciate the causes, symptoms and process of abnormal human behaviour. It also introduces the students to the present day treatment modalities in the light of psychological, social and cultural factors affecting human behaviour. This course helps the student to learn principles of mental health and psychiatric nursing and to develop beginning skills in the management of the mentally ill in hospital and community.

OBJECTIVES

At the end of the course, student will :

(1) identify and describe the philosophy and principles of mental health nursing.
(2) describe the historical development of mental health and psychiatric nursing.
(3) classify mental disorders.
(4) develop skill in history taking and performing mental status examination.
(5) describe etiological factors, psycho-pathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.
(6) manage the patients with various mental disorders.
(7) communicate therapeutically with patients and their families.
(8) identify role of the nurse in preventive psychiatry.
(9) identify the legal aspects in practice of mental health and psychiatric nursing.

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	5	• Identify and describe the philosophy and principles of mental health nursing	**Introduction and Historical development** • History of psychiatry • Historical development of psychiatric nursing. • Philosophy, principles of mental health and psychiatric nursing. • Concept of normal and abnormal behaviour. • Role and qualities of mental health and psychiatric nurse • Mental health team and functions of team members. • Legal aspects in psychiatry and mental health services.	• Lecture cum discussion	• Objective type • Short answer • Assessment of the field visit reports
II	6	• Classify mental disorders and Develop skill in history taking and performing mental status	**Principles and concepts of mental health nursing** • Classification and assessment of mental disorders. • Terminologies used in psychiatry.	• Lecture cum discussion • Explain using charts • Demonstration	• Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
		examination.	• Etiological factors and psychopathology of mental disorders. • History taking, mental status examination and other assessment methods for mental disorders. • Conceptual models and the role of nurse: ▪ Existential Model ▪ Psycho-analytical models ▪ Behavioural model ▪ Interpersonal model ▪ Communication model	• Practice Sessions • Clinical practice	• Short answer • Essay type • Assessment of clinical skills
III	4	• Develop skill in establishing therapeutic communication	**Therapeutic communication** • Communication process. • Interview skills, therapeutic communication techniques, Nurse - patient relationship. • Therapeutic impasse and its management. • Process recording.	• Lecture cum discussion • Demonstration • Role play • Process recording	• Objective type • Short answers • Essay type • Assessment of clinical skills
IV	16	• Describe etiological factors, psychopathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.	**Management of mental disorders**. • Etiological factors, psychopathology, types, clinical features, diagnostic criteria, treatment and nursing management of patient with following disorders ▪ Neurotic disorders : Anxiety neurosis, depressive neurosis, Obsessive compulsive neurosis, phobic neurosis and hypochondriacal neurosis, ▪ Stress related and somatoform disorders. ▪ Eating disorders and sexual disorders.	• Lecture cum discussion • Case discussion • Case presentation • Clinical practice	• Objective type • Short answers • Essay type • Assessment of managing patient problems

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			▪ Psychotic disorders: schizophrenic form, affective and organic psychosis ▪ Organic brain disorders ▪ Psychosomatic disorders ▪ Personality disorders		
V	5	• Identify the treatment and management of patients with substance use disorders	**Management of patients with substance use disorders** • Substance use and misuse • Dependence, intoxication and withdrawal • Classification of psychoactive substances • Etiological and contributory factors • Psychopathology • Clinical features • Diagnostic criteria • Treatment and nursing management of patients with substance use disorders • Preventive and rehabilitative aspects in substance abuse	• Lecture cum discussion • Case discussion • Case presentation • Clinical practice • Visit to de-addiction centre	• Objective type • Short answers • Essay type • Assessment of managing patient problems
VI	6	• Manage the patients with various childhood disorders.	**Disorders of childhood and adolescence** • ADHD • Autistic disorders • Conduct disorders and behavioural disorders • Tourett's disorders • Separation anxiety disorders • Oppositional defiant disorders • Mental sub-normality ▪ Classification of mental sub-normality ▪ Etiological factors, psychopathology, psychometric assessment, diagnostic criteria and management of mental sub-normality	• Lecture cum discussion • Case discussion • Case presentation • Clinical practice • Visit to special school	• Objective type • Short answers • Essay type • Assessment of managing patient problems
VII	5	• Plan and assist in various psychiatric emergencies	**Psychiatric emergencies** • Types of emergencies, psychopathology, clinical features, assessment and diagnosis, treatment and nursing	• Lecture cum discussion • Demonstration • Group work	• Objective type • Short answers

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			management of patient with psychiatric emergencies • Crisis intervention therapy	• Practice sessions • Clinical practice	• Essay type
VIII	8	• Explain treatment modalities and therapies used in mental disorders and role of the nurse	**Therapeutic modalities** • Principles, indication, contraindications and role of nurse in various treatment methods ▪ Therapeutic community and milieu therapy ▪ Occupational therapy ▪ Psychotherapy ▪ Behaviour therapy ▪ Family therapy ▪ Pharmacotherapy ▪ Electro convulsive therapy ▪ Other miscellaneous therapies	• Lecture cum discussion • Demonstration • Group work • Practice sessions • Clinical practice	• Objective type • Short answers • Essay type • Assessment of clinical skills • Observational Visit
IX	5	• Identify role of the nurse in preventive psychiatry	**Preventive psychiatry** • Model of prevention • Role of nurse in preventive psychiatry • Psychiatric social work • Community mental health nursing • Community mental health agencies • National mental health programmes • Mental health nursing issues for special population: children, women, elderly, victims of violence and abuse, handicapped, HIV/AIDS, etc	• Lecture cum discussion • Clinical/ Field practice. • Field visits to mental health service agencies	• Objective type • Short answers • Assessment of the field visit reports

PRACTICUM

The students will be provided opportunity to

- observe, record and report the behaviour of the selected patients.
- record the process of interaction.
- assess the nursing needs of their selected patients, plan and implement the nursing intervention
- counsel the attendant and family members of the patient.
- participate in the activities of psychiatric team.
- write observation report after a field visit to the following places:
  - Child guidance clinic
  - School/ Special schools (for mentally subnormal)
  - Mental hospital
  - Community mental health centre.
  - De-addiction centre

References :

1. Lalitha K. Mental health and psychiatric nursing.New Delhi: CBS Publishers; 2015.
2. Ahuja N. A short textbook of psychiatry. New Delhi:Jaypee Brothers Medical Publishers;2011.
3. Kapoor B.Textbook of psychiatric nursing. Delhi:Kumar Publishers;2001.
4. Stuart GW,Lararia. Principles & Practice of Psychiatric Nursing, 10th ed. Elsevier publishers;2013.
5. Neeraja K.P.Essentials of mental health and Psychiatric nursing. Jaypee Brothers Medical publishers.
6. Boyd MA. Psychiatry nursingcontemparypractices. 3rd ed. Lippincott William & Wilkins;2005.
7. Fortinash,Worret H. Psychiatric nursing care plans.5th ed.Elsevier publishers;2007.

YENEPOYA

INTRODUCTION TO NURSING EDUCATION

Placement : Second Year

Theory -60 hrs
Practical -75 hrs

COURSE DESCRIPTION

This course introduces the students to principles and concepts of education, curriculum development and methods and media of teaching. It also describes the steps in curriculum development and implementation of educational programmes in nursing.

OBJECTIVES

At the end of the course, the students will able to

1. describe the philosophy and principles of education.
2. explain the teaching – learning process
3. develop the ability to teach, using various methods and media.
4. describe the process of assessment.
5. describe the administrative aspects of school of nursing
6. participate in planning and organizing an in-service education programme.
7 develop basic skill of counselling and guidance.

COURSE CONTENTS

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	T	P				
I	5	-	• Describe the concept, meaning, principles & philosophy of nursing education	**Introduction to education** • Meaning of education, aims, function and principles • Philosophy of education • Factors influencing development of Philosophy of nursing education	• Lecture cum discussion	• Long essay • Short answers • Objective type
II	10	30	• Explain the teaching learning process.	**Teaching learning process** • Nature and characteristics of learning • Principles and maxims of teaching • Formulating objectives • Lesson planning • Course plan • Unit plan • Rotation plans	• Lecture cum discussion • Prepare lesson plan • Microteaching exercise on writing • Objectives	• Short answer • Objective type • Assess lesson plans & teaching sessions
III	15	10	• Demonstrate teaching skills using various teaching methods in clinical, class room and community settings.	**Methods of teaching** • Lecture • Discussion • Demonstration • Group discussion • Project • Role play	• Lecture cum discussion • Conduct teaching sessions using different methods & media.	• Objective type • Short answer • Long essay • Assess micro-

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	T	P				
				• Panel discussion • Symposium • Seminar • Field trip • Workshop • Exhibition • Programmed instruction • Micro teaching • Outcome based learning • Computer assisted learning (CAL) • Computer assisted instruction(CAI) • Self directed learning(SDL) • Clinical teaching methods: ▪ Case methods ▪ Case presentation ▪ Nursing rounds and reports ▪ Bedside clinic ▪ Conference (individual and group) ▪ Recording of interaction process	• Demonstration	teaching sessions • Project evaluation
IV	7	10	• Describe the communication process • Identify the techniques of effective communication • Prepare and use different types of educational media effectively	**Educational media** • The communication process : factors affecting communication • Purposes and types of audio-visual aids • Graphics aid: chalk-board, charts, graphs, posters, flash cards, flannelgraph/ khadigraph, bulletin, cartoon • Three dimensional aids : objects, specimen, models, puppets • Printed aids : pamphlets and leaflets • Projected aids : slides, films and televisions, VCR,VCP, overhead projector,camera, microscope. • Audio – Aids : Tape-recorder, public address system, computer	• Lecture cum discussion • Role play • Exercise with audio/ video tapes • Interview technique • Prepare different teaching aids-projected and non-projected.	• Long essay • Short answers • Objective type • Preparation and utilization of teaching aids

Unit	Hours		Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
	T	P				
V	6	10	• Prepare different types of questions for assessment of knowledge, skills and attitudes.	**Methods of assessment** • Purpose and scope of evaluation and assessment • Criteria for selection of assessment techniques and methods • Assessment of knowledge: essay type question, SAQ (Short Answer Questions) • MCQ (multiple choice questions) • Assessment of skills: Observation, check list. Practical examination, Viva, • Objective structured clinical examination. • Assessment of attitude: Attitude scale	• Lecture cum discussion • Exercise on different types of assessment tools.	• Short answers • Objective type • Assess the strategies used in practice teaching sessions and exercise sessions
VI	5	-	• Describe the management of nursing education institutions	**Management of school of nursing** • Planning of school of nursing, organization • Recruitment of teaching staff, budget, facilities for the school, student selection and admission procedure, administrative planning for students, welfare services for students, maintenance of school records, preparation of annual reports. INC guidelines for school of nursing	• Lecture cum discussion • Role play • Counselling session • Group exercise	• Essay type • Short answers • Objective type
VII	6	5	• Develop basic skill of counseling and guidance	**Guidance and counseling** • Definition • Basic principles of guidance and counseling • Organisation of guidance and counseling services • Counselling process • Managing disciplinary problems • Management of crisis	• Lecture cum discussion • Role play on counseling in different situations followed by discussion	• Essay type • Short answer • Objective type • Assess performance in role play situations
VIII	6	10	• Participate in planning and organizing in service education program	**In-service education** • Introduction to nature scope of in-service education programme	• Lecture cum discussion • Plan and conduct an	• Short answer • Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			• Principles of adult learning • Planning for in-sevice progamme • Techniques and methods of staff education programme • Evaluation of in-service programme	educational session for in service nursing personnel • Assess the planning & conduct of the educational session	

PRACTICUM

Each student should

Conduct five planned teaching using different methods and media

Prepare different types of teaching aids

Plan, organize and conduct inservice education programme.

Conduct at least one counselling session

Prepare rotation plans.

References :

1. Loretta E. Heidgerken "Teaching and learning in school of nursing" 3rd edition Konark Publishers.
2. Sankaranarayan B. "Learning and teaching", 1ST edition, brain fill publishers.
3. Basavanthappa B.T. Nursing education. 1st edition 2003, Jaypee brother's publishers, P. Ltd.
4. Moyer B.A and Ruth A. willmann nursing education, 1st edition Jaypee publications New Delhi.
5. Kumar KL, educational technology, 1st edition new age international publication, New Delhi.
6. Sanders D.H computers today 3rd edition New York; McGrgw Hill book company

INTRODUCTION TO NURSING SERVICE ADMINISTRATION

Placement : Second Year

Theory - 60 hrs.
Practical - 180 hrs.

COURSE DESCRIPTION

This course is designed to give an opportunity to the student to gain an understanding of the principles of administration and its application to nursing service. It is also intended to assist the students to develop an understanding of professional leadership position and its beginning functions.

OBJECTIVES

At the end of the course the student will be able to,

1. identify the principles of administration.
2. describe the principles and techniques of supervision.
3. explain the principles and methods of personnel management.
4. explain the principles of budgeting.
5. organise and manage a nursing unit effectively.
6. identify dynamics of organisational behaviour styles and functions of effective leadership.

COURSE CONTENTS

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	8	• Identify the principles and practice of administration	**Introduction to administration** • Definition, concepts of management • Principles and practice administration • Significance, elements and principles of administration • Organization of hospital - Definition, Aims, functions and classifications, health team. • Policies of hospital, different departments with special emphasis to department of nursing office management. • Responsibilities of the nursing personnel specially of ward sister, medico legal aspects, concept of cost effectiveness	• Lecture cum discussion	• Essay type • Short answers • Objective type
II	8	• Discuss the physical layout and the management of nursing unit	**Nursing unit management** • Physical layout of a nursing unit and necessary facilities • Factors affecting the quality of nursing care. • Maintenance of a therapeutic environment.	• Lecture cum discussion • Pannel discussion • Demonstration	• Essay type • Short answers • Objective type

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			• Administration of the unit management of patient care, maintenance of physical environment, assignment of duties and time plan. • Patient Assignment, Safety measures, prevention of accidents and infections, maintenance of patients records and reports, legal responsibilities, maintenance of quality nursing care, nursing audit and quality assurance (JCAHO,NAAC, NABH)		teaching sessions • Project evaluation
III	10	• Discuss the principles and methods of Personnel management	**Personnel management** • Staff recruitment and selection appointment, promotion, personnel policies in each department. planning the unit, job description, Job analysis • Staffing norms, rotation plan, leave, performance appraisal, staff welfare and management of disciplinary problems.	• Lecturecum discussion • Role play	• Short answers • Objective type
IV	10	• Describe the principles and techniques of supervision.	**Supervision** • Principles of supervision, nature and objectives. • Tools, techniques of supervision, • Evaluation • Staff development • Orientation programme • Skill training • Leader ship development. • Problem solving process	• Lecture cum discussion • Role play • Plan and conduct staff development Program for nursing	• Essay type • Short answers • Objective type
V	8	• Explain the principles of material management	**Material management** • Principles of material management • Quality control • Inventory, care of equipments, safekeeping • Role of nursing personnel in material management	• Lecture cum discussion	• Essay type • Short answers • Objective type
VI	6	• Explain the principles of budgeting.	**Financial management** • Budgeting • Principles of budgeting	• Lecture cum discussion	• Essay type • Short answers

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
			• Financial audit • Proposal, projecting requirement for staff, equipments and supplies for hospital and patient care units. • Financial planning and management for emergency and disaster.		• Objective type
VII	10	• Identify the dynamics of organisational behaviour styles and functions of effective leadership	**Organizational behaviour** • Concepts and theories of organizational behaviour • Group dynamics and human relations, organisational communication (hospital information system) • Public relation, leadership styles and functions • Collective bargaining • Methods of reporting • Maintaining records and reports.	• Lecture cum discussion • Role play	• Essay type • Short answers • Objective type

PRACTICUM

- Observe the functioning of nursing administration at various level. i.e. institution, department, unit.
- Each students will practice ward management under supervision,
- Students prepare rotation plan of the staff, write reports, give verbal reports of the ward and assist in maintaining the inventory of the nursing unit.
- Visit to private and Govt. hospitals and write observation reports.

References :

Management of nursing services and education

1. Vati..J. Pricnciples and practice of nursing and administration for BSc and MSc nursing.1st ed. Jaypee Brothers Medical Publisher (P) Ltd; 2013.
2. Kumari N. A text book of management of nursing services and education. 6th ed.S. Vikash and Company Medical Publisher P) Ltd; 2017.
3. Clement I. management of nursing services and education.2nd ed. Reed Elsevier India (P) Ltd; 2015.
4. Clement N. A text book of nursing service administration. 1st ed. EMMESS Medical Publisher; 2014.
5. Deepak K, Chandran SC, Kumar M. A comprehensive text book on nursing management. 1st ed. EMMESS Medical Publisher; 2017.
6. Goel SL, Kumar R. Disaster victim's care in hospital. 1st ed. Deep and deep publications Pvt Ltd New Delhi; 2012.
7. Sonopont JG. Disaster management for health care professionals.1st ed. Jaypee Brothers Medical Publisher; 2009.
8. Reilly JM, Devids M. Health care emergency management principles and practices.1st ed. Jones and Barlette Learning Tall Pine Drive Sudbury.MA; 2012.

YENEPOYA

INTRODUCTION TO NURSING RESEARCH AND STATISTICS

Placement : Second Year

Theory - 45 hrs.
Practical - 120 hrs.

COURSE DESCRIPTION

The course is designed to assist the students to develop an understanding of basic concepts of research and statistics, use the findings of nursing research in nursing practice, apply the knowledge in conducting projects and solve problems related to nursing using scientific methods.

OBJECTIVES

At the end of the course, the student will be able to,

1. define the terms and concepts of nursing research.
2. identify needs and scope of nursing research.
3. identify and define a research problem.
4. locate and list sources of literature for a specific study.
5. describe different research approaches, methods of data collection and sampling techniques with a special reference to survey method.
6. develop tool for data collection.
7. enumerate steps of data analysis and present data summary in tabular form.
8. use descriptive and correlational statistics in data analysis.
9. conduct a personal or group research project.

COURSE CONTENTS

A. INTRODUCTION TO RESEARCH METHODOLOGY

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
I	5	• Define the terms and concepts of nursing research.	**Research and research process** • Steps of scientific methods • Definition of research • Need for nursing research • Characteristics of good research • Research Process • Ethics in research	• Lecture cum discussion. • Narrate steps of research process followed from examples of published studies.	• Short answer • Objective Type • Essay type
II	5	• Identify and define a research problem • Locate and list sources of literature for a specific study	**Research problem and literature review** • Statement of research problem, • Statement of purpose and objectives. • Formulation of hypotheses • Definition of research terms. • Review of literature	• Lecture cum discussion. • Exercise on writing statement of problem, objectives • Reviewing one research report/ article • Each student selects a research problem	• Short answer • Objective Type • Proposal development

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
III	3	• Describe the research approaches and designs	**Research approaches and designs** • Research approaches : historical, survey and experimental. • Qualitative and quantitative designs	• Lecture cum discussion. • Explain types of research approaches used from examples of published and unpublished research studies with rationale	• Short answer • Objective type • Essay type
IV	8	• Explain the sampling process • Describe the methods of data collection • Developing and standardizing an instrument	**Sampling and data collection** • Sampling • Sampling techniques and methods of data collection. • Instruments; questionnaire, interview, • Observation schedule, records, measurements. • Reliability and validity of instruments. • Pilot study • Data collection procedure	• Lecture cum discussion. • Prepare the tool in respect to the selected research problem.	• Short answer • Objective type • Essay type
V	3	• Enumerate steps of data analysis and present data summary in tabular form	**Analysis of data** • Tabulation, • Classification and summarization, • Presentation, • Interpretation of data	• Lecture cum discussion. • Preparation of sample tables	• Short answer • Objective type • Essay type
VI	3	• Describe the methods of communicating research findings.	**Communication of research findings** • Writing Report ▪ Organizing materials for writing ▪ Format of the report ▪ Use of computers.	• Lecture cum discussion. • Writing group research project & presentation	• Short answer • Objective type • Assessment of group research Project

YENEPOYA

B. INTRODUCITON TO STATISTICS

Unit	Hours	Learning Objectives	Content	Teaching Learning Activities	Assessment Methods
VII	10	• Explain the use of statistics, scales of measurement and graphical presentation of data	**Descriptive statistics** • Definition, uses of statistics • Scales of Measurement • Frequency Distribution and graphical presentation of data • Measures of central tendency - mean, median and mode • Measures of variability : range, standard deviation, • Introduction to normal probability • Inferential Statistics • Chi square	• Lecture cum discussion. • Practice on graphical Presentations • Practice on computation of measures of central tendency, variability	• Short answer • Objective type
VIII	3	• Describe the methods of correlation	**Correlation** • Computation by rank difference methods • Uses of correlation co-efficient.	• Lecture cum discussion. • Practice on computation of correlation	• Short answer • Objective type
IX	2	• Discuss biostatistics	**Biostatistics** • Crude rates and standardized rates, ratio and estimation of the trends	• Lecture cum discussion.	• Short answer • Objective type
X	3	• Describe the use of computers in nursing	**Introduction to computers in nursing** • Introduction to computer & disk- operating system • Introduction to word processing • Introduction to data base • Windows applications, word, excel, power point, multimedia • Use of statistical packages • Introduction to internet & use of electronic mail • Computer aided teaching & testing	• Lecture cum discussion. • Practice on computers using data base, windows and statistical packages	• Short answer • Objective type

PRACTICUM

Students will conduct research project in small groups in selected areas of nursing and submit report. (Group studies include studying of existing health practices, improved practices of nursing (procedures), health records, patient records and survey of nursing literature).

YENEPOYA

References :

1. Polit DF, & Beck CT. Essentials of Nursing Research: Appraising Evidence for Nursing Practice. Walter Kluwer, Lippincott Williams & Wilkins. 7th edition
2. Polit DF, & Beck CT. Principles and methods. Lippincott Williams & Wilkins. 7th edition
3. Polit, DF, & Beck CT.Nursing Research; Generating and assessing evidence for Nursing Practice. Walter Kluwer, Lippincott Williams & Wilkins. 8th edition
4. Sharma SK. Nursing research & Statistics. Elsevier 3rd edition,.
5. Kaur S, Singh A. Simplified nursing research and statistics for undergraduates. CBS. 1st edition,
6. Clement N. Textbook on Nursing Research & Statistics, EMMESS, 1st edition
7. Nursing Research Society of India, Nursing Research & Statistics, Pearson
8. Mahajan BK. Methods in Biostatistics. Jaypee, 6th edition.