



**SHIVAJI UNIVERSITY, KOLHAPUR - 416 004,  
MAHARASHTRA**  
PHONE : EPABX – 2609000, [www.unishivaji.ac.in](http://www.unishivaji.ac.in), [bos@unishivaji.ac.in](mailto:bos@unishivaji.ac.in)  
**शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र**  
दूरध्वनी - ईपीएबीएक्स - २६०९०००, अभ्यासमंडळे विभाग दुरध्वनी ०२३१-२६०९०९३/९४



**Ref.No. SUK/BOS/673**

**Date: 08/09/2023**

**To,**

The Principals,  
All Concerned Affiliated Colleges / Institutions.  
Shivaji University, Kolhapur.

**Subject : Regarding syllabi of Vocational Education Part-II under the Faculty of Inter-Disciplinary Studies.**

**Sir/Madam,**

With reference to the subject, mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi of Vocational Education Part-II under the Faculty of Inter-Disciplinary Studies. as per National Education Policy 2020.(NEP)

1)	Printing & Publishing Part-II
2)	Automobile Part-II
3)	B.Voc in Nursing Part-II
4)	Horticulture Science and Technology Part-II

This syllabi shall be implemented from the academic year 2023-2024 onwards. A soft copy containing the syllabi is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in). (Online Syllabus)

The question papers on the pre-revised syllabi of above mentioned course will be set for the examinations to be held in October /November 2023 & March/April 2024. These chances are available for repeater students, if any.

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dr. S.M.Kubal  
(Dy Registrar)

**Copy to:**

1	Director, Board of Evaluation and Examination	7	Centre for Distance Education
2	The Dean, Faculty of IDS	8	Computer Centre / I.T.cell
3	The Chairman, Respective Board of Studies	9	Affiliation Section (U.G.) / (P.G.)
4	B.A.,B.Com.,B.Sc. Exam	10	P.G.Admission / P.G.Seminar Section
5	Eligibility Section	11	Appointment Section -A/B
6	O.E. I, II, III, IV Section	12	Dy.registrar (On/ Pre.Exam)

# **SHIVAJI UNIVERSITY, KOLHAPUR**



Accredited By NAAC with 'A++' Grade

**Faculty of Interdisciplinary Studies  
Structure, Scheme and Syllabus for  
Bachelor of Vocation (B. Voc.)**

**B.Voc in Nursing Part-II- Sem. III & IV  
NEP 2020 PATTERN**

Syllabus to be implemented from (Subject to the modification that will be made from time to time)  
Syllabus to be implemented from June, 2023 onwards.

## National Education Policy (NEP-2020)

### Second Year Bachelor of Vocation (B. Voc. - Advanced Diploma)

#### Course Structure for (Level-6)

#### With Multiple Entry and Multiple Exit option

(To be implemented from the Academic Year 2023-24)

Semester III – Duration: 6 Months											
Sr. No.	Teaching Scheme					Evaluation Scheme					
	Course	No. of Lectures		Hours (T + P)	Credits	Theory	Internal/ Practical	Total Marks	Min Marks (Separate passing)	Exam Duration (Hrs.)	
		T	P							T	P
1.	AECC-CD	4	2	6	-	-	-	-	-	-	-
2.	GEC –C	4	2	6	4	40	10	50	18	2	-
3.	DSC –C-I	4	-	4	4	50	-	50	18	2	-
4.	DSC –C-II	4	-	4	4	50	-	50	18	2	-
5.	DSC –C-III	4	-	4	4	50	-	50	18	2	-
6.	SEC-C-I	-	4	4	2	-	50	50	18	-	3
7.	SEC-C-II	-	4	4	2	-	50	50	18	-	3
8.	SEC-C-III	-	4	4	2	-	50	50	18	-	3
9.	SEC-C-IV	-	-	2	2	-	50	50	18	-	-
	<b>Total</b>	20	16	<b>38</b>	<b>24</b>	<b>190</b>	<b>210</b>	<b>400</b>	<b>-</b>	<b>-</b>	

Semester II – Duration: 6 Months (Advance Diploma)											
Sr. No.	Teaching Scheme					Evaluation Scheme					
	Course	No. of Lectures		Hours (T + P)	Credits	Theory	Internal/ Practical	Total Marks	Min Marks (Separate passing)	Exam Duration (Hrs.)	
		T	P							T	P
1.	AECC-CD	4	2	6	4+4	70	30	100	28+14	3	-
2.	GEC – D	4	2	6	4	40	10	50	18	2	-
3.	DSC – D -I	4	-	4	4	50	-	50	18	2	-
4.	DSC – D-II	4	-	4	4	50	-	50	18	2	-
5.	DSC – D -III	4	-	4	4	50	-	50	18	2	-
6.	SEC- D -I	-	4	4	2	-	50	50	18	-	3
7.	SEC- D -II	-	4	4	2	-	50	50	18	-	3
8.	SEC- D -III	-	4	4	2	-	50	50	18	-	3
9.	SEC- D -IV	-	-	2	2	-	50	50	18	-	-
	<b>Total</b>	20	16	<b>38</b>	<b>32</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>-</b>	<b>-</b>	
	<b>Grand Total</b>	40	32	<b>76</b>	<b>56</b>	<b>450</b>	<b>450</b>	<b>900</b>	<b>-</b>	<b>-</b>	

• Student Contact Hrs Per week: 36 hrs	• Total marks for B.Voc.- Advanced Diploma: 900
• Theory and Practical Lectures: 48 Minutes Each	• Total credits for B.Voc.- Advanced Diploma: 56
• AECC: Ability Enhancement Compulsory Course ( <b>Compulsory Environmental Science</b> )	
• Practical workload will for batch of 20 students	
• Practical Examination will be conducted Semester wise for 50 Marks per course (subject).	
• DSC: Discipline Specific Core Course - Candidate can opt three courses (Subjects) from DSC.	
• GEC: Generic Elective Compulsory Course - Candidate can opt any one course (Subject).	
• There shall be separate passing for theory and practical courses.	
• AECC & GEC Internal Evaluation should be done at college or respective departmental level	
• <b>Exit option after Level 6:</b> Students can exit with Advance Diploma Course in Bachelor of Vocation with the completion of courses equal to minimum of 56 credits and also shall have to acquire additional CCC credits by successfully completing CCC-I and CCC-II courses which are assisted by Compulsory Civic Courses	
• SEC-C & SEC-D are two parts of Vocational Advance Diploma Course-II.	

### **Eligibility:**

**Eligibility for Admission:** For Advance Diploma: Passed in Diploma in B.Voc in Nursing Part-I

**Eligibility for Faculty:** M.Sc. Nursing in any specialty.  
M.Sc. Environment Science, NET/SET or Ph.D  
M. Pharmacology

**Eligibility for Lab Assistant:** B.Sc (Nursing)

**Staffing Pattern: Teaching:** In the 1<sup>st</sup> year of B. Voc. – One Full Time

**Lab. Assistant:** For 1<sup>st</sup> Year of B. Voc. – 1 Part Time  
For 2<sup>nd</sup> and 3<sup>rd</sup> Year (Inclusive of 1<sup>st</sup> Year) of  
B. Voc.– 1 Full Time

<b>Semester III- Duration: 6 Months</b>		
<b>Sr. No.</b>	<b>Course</b>	<b>Subject Name</b>
1.	AECC-CD	Environment Science-I
2.	GEC-C	Management of Nursing Services & Education-I
3.	DSC-C-I	Medical Surgical Nursing-I
4.	DSC-C-II	Pharmacology-I
5.	DSC-C-III	Fundamental of Nursing-I
6.	SEC-C-I	Lab work & Clinical: Medical Surgical Nursing-I
7.	SEC-C-II	Lab work & Clinical: Pharmacology-I
8.	SEC-C-III	Lab work & Clinical: Fundamental of Nursing-I
9.	SEC-C-IV	Internship & Project work-I

<b>Semester IV- Duration: 6 Months (Advance Diploma)</b>		
<b>Sr. No.</b>	<b>Course</b>	<b>Subject Name</b>
1.	AECC-CD	Environment Science-II
2.	GEC-D	Management of Nursing Services & Education-II
3.	DSC-D-I	Medical Surgical Nursing-II
4.	DSC-D-II	Pharmacology-II
5.	DSC-D-III	Fundamental of Nursing-II
6.	SEC-D-I	Lab work & Clinical: Medical Surgical Nursing-II
7.	SEC-D-II	Lab work & Clinical: Pharmacology-II
8.	SEC-D-III	Lab work & Clinical: Fundamental of Nursing-II
9.	SEC-D-IV	Internship & Project work-II

**Bachelor of Vocation (B. Voc.) Part II - Sem. III**  
**(AECC-CD)**

**Paper Title: ENVIRONMENTAL SCIENCE -I**

**Paper No: XX**

**Credits: 08**

**Theory: 4 lectures/week**

**Total Marks: 100 (Theory 70 + Internal 30)**

**Practical: 2 lectures/week per batch of 20 students**

---

**Units Prescribed for Theory: 70 Marks**

## **Bachelor of Vocation (B. Voc.) Part II - Sem. III**

### **Generic Elective Compulsory Course (GEC)**

#### **Paper Title: MANAGEMENT OF NURSING SERVICE & EDUCATION -I**

**Paper No: XX**

**Credits: 04**

**Theory: 4 lectures/week**

**Total Marks: 50 (Theory 40 + Internal 10)**

**Practical: 2 lectures/week/batch**

---

**Aim:** To enable students to acquire in-depth understanding of management of hospital services, management of nursing services and nursing educational programme and also to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the Nursing profession.

**Specific objectives**—At the end of the course student will be able to:

1. Understand the principles and functions of management
2. Understand the elements and process of management
3. Appreciate the management of nursing services in the hospital and community.
4. Apply the concepts, theories and techniques of organizational behaviour and human relations.

#### **Unit I:**

**(10 hours)**

##### **Introduction to Management in Nursing**

- History, Definition, concepts and theories
- Functions of management
- Principles of management
- Role of nurse as a manager and her qualities

#### **Unit II:**

**(15 hours)**

##### **Management Process**

- Planning, mission, philosophy, objectives, operational plan
- Staffing: Philosophy, staffing study, norms, activities, patient classification system, scheduling
- Human resource management, recruiting, selecting, deployment, retaining, promoting, superannuation.
- Budgeting: Concept, principles, types, cost benefit analysis audit
- Material management: equipment and supplies
- Directing process (Leading)
- Controlling: Quality management
- Program Evaluation Review Technique (PERT), Bench marking, Activity Plan
- Gantt Chart

#### **Unit III:**

**(20 hours)**

##### **Management of nursing services in the hospital**

###### **Planning**

Hospital & patient care units including ward management  
Emergency and disaster management

###### **Human resource management**

Recruiting, selecting, deployment, retaining, promoting, superannuation  
Categories of nursing personnel including job description of all levels  
Patients/ population classification system  
Patients/ population assignment and nursing care responsibilities  
Staff development and welfare programmes

Budgeting: Proposal, projecting requirements for staff, equipments and supplies for  
Hospital and patient care units

Emergency and disaster management

Material management: Procurement, inventory control, auditing and maintenance in  
Hospital and patient care units

Emergency and disaster management

Directing & Leading: delegation, participatory management

Assignments, rotations, delegations

Supervision & guidance

Implement standards, policies, procedures and practices

Staff development & welfare

Maintenance of discipline

❖ Controlling/Evaluation

- Nursing rounds/visits, Nursing protocols, Manuals
- Quality assurance model, documentation
- Records and reports
- Performance appraisal

**Unit- IV:**

**(15 hours)**

**Organizational behavior and human relations**

- Concepts and theories of organizational behaviors
- Review of channels of communication
- Leadership styles, Power, types
- Review of motivation: concepts and theories
- Group dynamics
- Techniques of:
  - Communication
  - Interpersonal relationships
  - Human relations
- Public relations in context of nursing
- Relations with professional associations and employee union
- Collective bargaining



### **REFERENCE:**

1. TNAI.Nursing Administration and Management,1st edition, Academic Press: New Delhi,2000.
2. Shakharkar, BM. Principles of Hospital Administration and Planning, Jaypee Brothers: Bangalore, 1998.
3. Pai, Pragna. Effective Hospital Management,1st edn, The National Book Depot: Mumbai, 2002.
4. Srinivasan, AV. Managing a Modern Hospital,1st edn ,Sage Publications: NewDelhi, 2002.
5. Basavanthappa, BT. Nursing Administration, 1<sup>st</sup>edn, JP Brothers Medical Publishers: New Delhi, 2000.
6. Goels & Kumar ,R. Hospital Administration and Management,1st edn, Deep and Deep Publications: New Delhi, 2000.
7. Park K. Park's Textbook of Preventive and Social Medicine, 17<sup>th</sup>edn, M/S Banarsidas Bhanot Publishers: Jabalpur,2003.
8. Russels, CS. Management & Leadership for Nurse Managers, 3<sup>rd</sup> edn, Jones Bartlett Publishers: London, 2002.
9. Francis, EM & Desouza, Mario. Hospital Administration, 3<sup>rd</sup> edn, Jaypee Brothers Medical Publishers: New Delhi, 2000.
10. Goddard, HA. Principles of Administration applied to Nursing Practice, WHO: Geneva, 1966.
11. Hersey,P.,Blanchard, HK & Johnson, ED. Management of Organizational Behavior, Pearson Education Indian Branch: New Delhi,2002.
12. Barret, Jean. Ward Management and Teaching, 2<sup>nd</sup> edn, English Book Society: New Delhi, 1967.

**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –III**  
**MANAGEMENT OF NURSING SERVICE & EDUCATION-I**

**Paper No: XX**

**Time: 2 hours**

**Total Marks: 40**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	08 Marks
Q. 2 Long answer Question	08 Marks
Q. 3 Long answer Question	08 Marks
Q. 4 Long answer Question	08 Marks
Q. 5 Long answer Question	08 Marks
Q. 6 Long answer Question	08 Marks
Q. 7 Short Type Questions (any 2 out of 3)	08 Marks

**Nature of Practical Question Paper:**

<b>Internal practical examination</b>	<b>10 marks</b>
1. Assignment as per prescribed units	<b>10 Marks</b>

**Bachelor of Vocation (B. Voc.) Part II - Sem. III**  
**Discipline Specific Core Course (DSC-C-I)**  
**Paper Title: MEDICAL SURGICAL NURSING -I**

**Paper No: XXI**

**Theory: 4 lectures/week**

**Credits: 04**

**Total Marks: 50 (Theory)**

---

**Objectives:**

1. To know the causes, patho-physiology, symptoms, treatment and prophylactic measures in common medical and surgical conditions affecting various systems of the body.
2. Provide patient centered nursing care to patients with common medical and surgical conditions affecting various systems of the body.
3. Prepare operation theatre for surgery and assist in operative procedures.
4. Identify common equipment used in operation theatre
5. Recognize and provide first aid in case of common emergencies using the resuscitation equipment including intubation.
6. Care for critically ill patients who required support for maintaining vital functions.
7. Provide first aid in case of disaster, emergency and accidents and demonstrate skill in transporting the casualties.
8. Organize casualty/emergency services.
9. Explain infectious diseases, their transmission and barrier nursing in hospital and community.
10. Explain the anesthesia used, with their effects and dangers, and care for an anesthetized patient until such time as he recovers from the effect of anesthesia.

**Unit 1:**

**(15 hours)**

- **Introduction to Medical Surgical Nursing**, Evaluation & trends of medical & surgical nursing, review of concept of compressive Nursing care in Medical Surgical Condition based on Nursing Process.
- Role of nurse, patients & family in care of adult patients.
- Role & responsibility of nurse in medical surgical settings: - Outpatient department - In patient department - Intensive care units - Home & community settings -Introduction to medical surgical sepsis - Inflammation and Infection-Immunity - Wound healing
- Care of surgical patients: Pre-operative, Intra-operative, Post-operative.
- Common Sign and symptoms and management : Fluid & electrolyte imbalance, Vomiting, Dyspnea and cough, respiratory difficulty and obstructions, Fever, Shock , Unconsciousness, syncope, Pain, Incontinence, Edema, Age related problems, Geriatric problem.

## Unit 2:

(15 hours)

### ● Nursing management of patients (adults including elderly)

- Review of Anatomy & Physiology of respiratory system.
- Nursing Assessment – History & Physical assessment • Etiology, Patho-physiology, Clinical manifestations, diagnosis, treatment modalities & Medical, surgical, Nutritional & nursing management

#### **Respiratory problems:**

- Upper Respiratory tract infections, Bronchitis, Asthma, Emphysema, Empyema, Atelectasis, Chronic obstructive Pulmonary Diseases (COPD), Bronchiectasis, Pneumonia, Pulmonary tuberculosis, Lung abscess, Pleural effusion, Cysts & Tumors, Chest injuries, Respiratory arrest insufficiency, Pulmonary embolism • Special therapies, alternative therapies Nursing, Procedures Drugs used in treatment of respiratory disorders.

#### **Musculoskeletal problems**

- Disorders of:
- Muscles, ligaments and joints- inflammation, infection, trauma
  - Bones- inflammation, infection, dislocation, sprain, fracture, tumour & trauma
  - Osteomalacia and osteoporosis
  - Arthritis
  - Congenital deformities
  - Spinal column – defects and deformities, tumor, Prolapsed inter vertebral disc. Pott's spine
  - Paget's disease
  - Amputation
  - Prosthesis
  - Transplant and replacement surgeries
  - Rehabilitation special therapies, alternative therapies
  - Nursing procedures, drug used in treatment of disorders of musculoskeletal system

#### **Food allergy & poisoning**

- Small intestinal inflammation and infection: Ulcerative colitis, enteritis, malabsorption syndrome, Obstruction, tumors perforation
  - Large Intestinal disorders: Colitis inflammations & infection, obstruction, Tumors, lump Hernias
  - Appendix: Inflammation, mass, abscess, rupture
  - Anal & Rectum: Fistulas, fissures, Hemorrhoids
  - Peritonitis: acute abdominal
  - Pancreas: inflammation, cyst, abscess, tumours
  - Liver- Inflammation, cyst, cirrhosis, abscess, portal hypertension, hepatic failure and tumors
  - Biliary tract & gall bladder: Inflammation obstruction, stones, tumors
- Integumentary system:
- Disorders of skin and its appendages
  - Lesions and abrasions
  - Infection and infestations: Dermatitis
  - Dermatitis: Infectious and non infectious “inflammatory edematous”
  - Acne vulgaris
  - Allergies and Eczema
  - Psoriasis
  - Malignant melanoma
  - Alopecia
  - Care of patient with Skin surgery
  - Special therapies, alternative therapies
  - Nursing procedures,
  - Drugs used in treatment of disorders of Integumentary system

## Unit 3:

(15 hours)

### ● Nursing management of patients (adults including elderly)

- Review of Anatomy & Physiology of respiratory system.
- Nursing Assessment – History & Physical assessment
- Etiology, Patho-physiology, Clinical manifestations, diagnosis, treatment modalities & Medical, surgical, Nutritional & nursing management

#### **Blood and Cardiovascular problems:**

- Vascular systems: Hypertension, hypotension, Raynaud's disease Aneurism and Peripheral vascular disorders
- Heart- Coronary artery disease - Ischemic heart disease - Coronary atherosclerosis - Angina pectoris - Myocardial infarction - Congestive cardiac failure - Cor pulmonale - Pulmonary Oedema - Cardiogenic shock - Cardiac tamponade - Endocarditis - Myocarditis, Pericarditis - Cardiomyopathies
- Valvular heart disease: - Congenital & acquired - Rheumatic heart disease
- Conduction system: - Cardiac dysrhythmias & heart blocks
- Cardiac arrest- Cardiopulmonary resuscitation(CPR)
- Blood: - Anaemia - Polycythemia - Bleeding & clotting disorders, platelet defect - Hemophilia - Thalassemia
- Leukemia - Leukopenia Agranulocytosis - Lymphomas & Myelomas

### **Genitourinary problems:**

- Nephritis - Nephrotic syndrome - Nephrosis - Renal calculus - Tumours - Acute renal failure - Chronic renal failure - End stage renal disease - Dialysis, renal transplant - Congenital disorders, urinary infections - Benign prostate hypertrophy
- Kidney: - Polycystic kidney • Disorders of ureter, urinary bladder and urethra: - inflammation, infections, calculus stricture, obstructions, tumors, prostate • Drug used in treatment of Genito-urinary disorders

### **Reproductive system:**

- Congenital malformations: cryptorchidism • Infections: Hypospadias, Epispadias, • Infection Testis and adjacent structure • Penis • Prostate: inflammation, infection hypertrophy, tumor • Sexual Dysfunction • Infertility • Contraception • Breast, gynecomastia, tumors • Climacteric changes special therapies, alternative therapies.
- Nursing procedures • Drugs used in treatment of disorders of male reproductive system

### **Endocrine system:**

- Disorders of pituitary • Disorders of thyroid and parathyroid • Adrenal tumour • Diabetes mellitus • Diabetes insipidus • special therapies, alternative therapies • Nursing procedures - Drugs used in treatment of disorders of endocrine system

## **Unit 4:**

**(15 hours)**

- Nursing management of patients (adults including elderly)
  - Review of Anatomy & Physiology of respiratory system.
  - Nursing Assessment – History & Physical assessment
  - Etiology, Pathophysiology, Clinical manifestations, diagnosis, treatment modalities & Medical, surgical, Nutritional & nursing management

### **Digestive system: Disorders of oral cavity**

Oral cavity - Lips, gums, tongue, salivary and teeth -esophagus inflammation, stricture, obstruction, bleeding & esophageal tumour, Stomach & Duodenum hiatus, hernia, gastritis, peptic & duodenal ulcer, bleeding, tumour pyloric stenosis

### **Immunological problems**

- Immunodeficiency disorder • Primary Immuno deficiency • Phagocytic dysfunction • B-cell and T-cell deficiencies
- Secondary immunodeficiencies
- Acquired Immuno Deficiency Syndrome (AIDS)
- Incidence of HIV & AIDS: • Epidemiology • Transmission-prevention of

Transmission · Standard safety precautions · Role of nurse, counseling · Health education and home care consideration, · National AIDS control program NACO various National and international agencies. · Infection control program · Rehabilitation, Special therapies, alternative therapies Nursing procedures Drugs used in treatment of disorders of immunological systems

### **Communicable Diseases:**

• Tuberculosis, Diarrhoea diseases, Hepatitis A-E, Herpes, Chickenpox, Smallpox, Typhoid, Meningitis, Gas gangrene, Leprosy, Dengue, Plague, Malaria, Diphtheria, Pertussis, Poliomyelitis, Measles, Mumps, Influenza, Tetanus, Yellow fever, Filariasis, HIV, AIDS

• Reproductive Tract Infections · Special infection control measures; Notification, Isolation, Quarantine, Immunization, Infectious Disease, Hospitals, Special therapies, Alternative therapies · Nursing procedures

• Drugs used in treatment of communicable diseases

### **Peri Operative nursing:**

• Organization and physical set up of the operation theatre (OT):

• Classification • O.T. DESIGN • Staffing • Members of the OT team • Duties and responsibility of nurse in OT

• Principles of health and operating room attire. • Instruments • Sutures and suture materials • Equipments • O.T. tables and sets for common surgical procedure • Scrubbing procedures • Gowning and gloving • Preparation of O.T sets • Monitoring the patients during surgical procedures • Maintenance of therapeutic environment in O.T.

• Standard safety measures: Infection control: fumigation, disinfections and sterilization  
% Biomedical waste

management • Prevention of accidents and hazards in O.T. • Anesthesia: Types, Methods of administration, Effects and stages, Equipment, Drugs • Cardio pulmonary Resuscitation (CPR) • Pain management techniques • Legal Aspects

### **EDUCATIONAL VISITS:**

#### **Medical Surgical Nursing:**

1. Artificial Kidney Unit
2. C.S.S.D.
3. Waste Disposal Unit
4. Hospital Kitchen

## **Reference:**

1. Black J.M. Hawk, J.H. (2005) Medical Surgical Nursing Clinical Management for Positive Outcomes. (7th ed) Elsevier.
2. Brunner S. B., Suddarth D.S. The Lippincott Manual of Nursing practice J.B.Lippincott. Philadelphia.
3. Medical Surgical Nursing: an integrated approach 2 nd ed, White, L, Delmar Thomson learning (2002) United States
4. Lewis, Heitkemper & Dirksen (2000) Medical Surgical Nursing Assessment and Management of Clinical Problem (6 th ed) Mosby.
5. Colmer R.M. (1995) Moroney's Surgery for Nurses (16 th ed) ELBS.
6. Shah N.S. (2003) A P I textbook of Medicine, The Association of Physicians of India Mumbai.
7. Satoskar R.S., Bhandarkar S.D. & Rege N.N. (2003) Pharmacology and Pharmacotherapeutics (19 th ed) Popular Prakashan, Mumbai.
8. Phipps W.J., Long C.B. & Wood N.F. (2001) Shaffer's Medical Surgical Nursing B.T.Publication Pvt. Ltd. New Delhi.
- 9 Datta T.K. (2003) Fundamentals of Operation Theatre Services, Jaypee, New Delhi.
10. Maheswari J Essentials of Orthopedics (3rd ed) Mehta Publication, New Delhi.
- 11 Pasricha J.S., Gupta R. (2001) Illustrated Text book of Dermatology (2nd ed) Jaypee brothers New Delhi.
12. Haslett C., Chilvers E.R., Hunder J.A.A. & Boon, N.A. (1999) Davidson's Principles and Practice of Medicine (18 th ed) Churchill living stone. Edinburgh.
- 13 Walsh M. (2002) Watson's Clinical Nursing and Related Sciences (6th ed) Bailliere Tindall Edinburgh.
14. Medical Surgical Nursing: an integrated approach 2nd ed, White, L, Delmar Thomson learning (2002) United States
15. Medical Surgical Nursing: A Nursing process approach Vol. I & II, Ignatavicius, Donna & Workman, Linda, W. B. Saunders company, Philadelphia (1995)
16. The Lippincott Manual of Nursing practice, 7th ed, Nettna, Sandra, Lippincott Williams & Wilkins, Philadelphia

**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –III**  
**Medical Surgical Nursing-I**

**Paper No: XXI**

**Time: 2 hours**

**Total Marks: 50**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	10 Marks
Q. 2 Long answer Question	10 Marks
Q. 3 Long answer Question	10 Marks
Q. 4 Long answer Question	10 Marks
Q. 5 Long answer Question	10 Marks
Q. 6 Long answer Question	10 Marks
Q. 7 Short Type Questions (any 2 out of 3)	10 Marks



**Bachelor of Vocation (B. Voc.) Part II - Sem. III**  
**Discipline Specific Core Course (DSC-C-II)**  
**Paper Title: PHARMACOLOGY -I**

**Paper No: XXII**

**Theory: 4 lectures/week**

**Credits: 04**

**Total Marks: 50 (Theory)**

---

**Objectives** – at the end of the course the students are able to:

1. Understand the basic concepts of pharmacology
2. Understand the pharmacology of common chemo-therapeutics.
3. To know in detail regarding used antiseptics, disinfectants, and insecticides.
4. To explain in detail regarding drug acting on GI, respiratory tract, Urinary system.
5. Understand the used of drugs in skin and cardiovascular system.

**Unit 1:**

**(15 hours)**

● **Introduction to pharmacology**

- Definitions • Sources • Terminology use • Types: Classification
- Pharmaco-dynamics: Actions, therapeutic, Adverse, toxic effects.
- Pharmaco-kinetics: Absorption, distribution, metabolism, interaction, excretion
- Review: Routes and principles of administration of drugs
- Indian pharmacopoeia: Legal issues
- Storage of various drugs
- Calculation of drugs dosage
- Rational use of drugs
- Principles of therapeutics

**Unit 2:**

**(15 hours)**

● **Chemotherapy**

**Pharmacology of commonly used:**

- Penicillin • Cephalosporins • Amino glycosides
- Macrolide & BroadSpectrum Antibiotics
- Sulfonamides • Quinolones • Antiamoebic
- Antimalarials • Anthelmintics • Antiscabies agents
- Antiviral & Antifungal agents • Antitubercular drugs
- Antileprosy drugs • Anticancer drugs
- Immuno-suppressants

Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.

**Unit 3:****(20 hours)**

- **Pharmacology of commonly used antiseptics, disinfectants, and insecticides**
  - Antiseptics: Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects, toxicity and role of nurse.
  - Disinfectants, Insecticides.
- **Drugs acting on GI system**
  - Pharmacology of commonly used: Antiemetics, Emetics, Purgatives, Antacids, Cholinergic, Anticholinergic, Fluid and electrolyte therapy, Anti diarrheal's, Histamines.
- **Drugs acting on respiratory system**
  - Pharmacology of commonly used: Antiasthmatics, Mucolytics, Decongestants, Expectorants, Antitussives, Bronchodilators, Antihistamines.
- **Drugs acting in urinary system**
  - Pharmacology of commonly used: Diuretics and anti diuretics, Urinary antiseptics, Cholinergic and Anticholinergic, Acidifiers and alkalinizers.
  - Composition: action, dosage, route, indications, contraindication, drug interaction, side effects, adverse effects.

**Unit 4:****(10 hours)**

- **Drugs used on skin and mucus membranes**
  - Topical applications for skin, eye, ear, nose, and buccal cavity
  - Antipruritics Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.
- **Cardiovascular Drugs**
  - Haematinics • Cardiotonics • Anti anginals • Antihypertensives & vasodilators • Anti-arrhythmics • Plasma expanders • Coagulants & anticoagulants • Antiplatelets & thrombolytics • Hypolipidemics: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.

**Reference Books:**

1. Satoskar, Bhandarkar, Ainapure: Pharmacology and Pharmacotherapeutics, 18 Edition Popular Prakashan Mumbai.
2. M M Das: Pharmacology, Books & Allied (p) Ltd, 4 Edition 2001.
3. Linda, Skidmore Roth: Mosby's 2000 Nursing Drug Reference, Mosby Inc, Harcourt Health Sciences Company, Missouri 2000.
4. Ramesh Karmegan: First aid to Pharmacology for undergraduates, Paras Medical publishers, Hyderabad, India, 1 Edition 2003.
5. K D Tripathi: Essentials of Medical Pharmacology, 4 Editions, Jaypee Brothers, Bangalore.
6. Govoni & Hayes: Drugs and nursing implications, 8 Edition, Appleton & Lange Newyork.
7. Rodman & Smith: Clinical pharmacology in nursing, 2 Edition, J B Lippincott company, Philadelphia.
8. Richard A Lehne : Pharmacology for nursing care , 3 Edition ,W B S aunderers company , Philadelphia, 1990.
9. Lalit Mishra: Drug Today, Vol 12, No 12, Lorina publications Inc. Delhi 2004.

**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –III**  
**Pharmacology-I**

**Paper No: XXII**

**Time: 2 hours**

**Total Marks: 50**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	10 Marks
Q. 2 Long answer Question	10 Marks
Q. 3 Long answer Question	10 Marks
Q. 4 Long answer Question	10 Marks
Q. 5 Long answer Question	10 Marks
Q. 6 Long answer Question	10 Marks
Q. 7 Short Type Questions (any 2 out of 3)	10 Marks

**Bachelor of Vocation (B. Voc.) Part II - Sem. III**  
**Discipline Specific Core Course (DSC-C-III)**  
**Paper Title: FUNDAMENTALS OF NURSING -I**

**Paper No: XXIII**

**Theory: 4 lectures/week**

**Credits: 04**

**Total Marks: 50 (Theory)**

---

**DESCRIPTION:** This course is designed to help novice nursing students develop knowledge and competencies required to provide evidence-based, comprehensive basic nursing care for adult patients, using nursing process approach.

**COMPETENCIES**

On completion of the course, the students will be able to

1. Develop understanding about the concept of health, illness and scope of nursing within health care services
2. Apply values, code of ethics and professional conduct in professional life
3. Apply the principles and methods of effective communication in establishing communication links with patients, families and other health team members
4. Develop skill in recording and reporting
5. Demonstrate competency in monitoring and documenting vital signs
6. Develop understanding about fundamentals of health assessment and perform health assessment in supervised clinical settings
7. Describe the principles and techniques of infection control and biomedical waste management
8. Identify and meet the comfort needs of the patients
9. Perform admission, transfer, and discharge of a patient under supervision applying the knowledge
10. Demonstrate understanding and application of knowledge in caring for patients with restricted mobility
11. Identify the educational needs of patients and demonstrate basic skills of patient education.

**Unit 1:****(15 hours)****Introduction to health and illness:**

- Concept of Health: Definitions(WHO),Dimensions
- Maslow's hierarchy of needs, Health-Illness continuum, factors influencing health, Causes and risk factors for developing illnesses,Illness:Types,Illness behavior, Impact of illness on patient and family

**History of Nursing and Nursing as a profession:**

- History of Nursing, History of Nursing in India
- Contributions of Florence Nightingale
- Nursing:Definition-Nurse,Nursing,Concepts,philosophy,objectives, Characteristics, nature and Scope of Nursing /Nursing practice, Functions of nurse, Qualities of a nurse,Categories of nursing personnel
- Code of ethics and professional conduct for nurses

**Health Care delivery Systems:Introduction of basic concepts &meanings**

- Levels of Illness Prevention-primary (health promotion), secondary and tertiary
- Levels of care-Primary, Secondary and Tertiary
- Types of health care agencies/ Services-Hospitals, clinics, Hospice, rehabilitation centers, extended care facilities
- Hospitals:Types, Organization and Functions
- Health care teams in hospitals-members and their role

**Unit 2:****(15 hours)****Communication and Nurse patient relationship:**

- Communication:Levels, Elements and Process, Types, Modes, Factors influencing communication, Methods of effective communication/ Therapeutic Communication Techniques, Barriers to effective communication/ Non therapeutic Communication techniques, Professional communication, Helping Relationships (Nurse Patient Relationship) :Purposes and Phases, Communicating effectively with patient, families and team members, Maintaining effective human relations and communication with vulnerable groups (children, women, physically and mentally challenged and elderly)

**Documentation and Reporting:**

- Documentation: Purposes of Reports and Records, Confidentiality, Types of Client records/ Common Record-keeping forms, Methods/ Systems of documentation/ Recording, Guidelines for documentation, Do's and Don'ts of documentation/Legal guidelines for, Documentation/ Recording, Reporting: Change-of shift reports, Transfer reports,Incident reports

**Vital signs:**

- Guidelines for taking vital signs
  - *Body temperature:*
    - Definition,Physiology,Regulation,Factors affecting body temperature
    - Assessment of body temperature: Sites,equipment and technique
    - Temperature alterations: Hyperthermia, Heat Cramps, Heat Exhaustion, Heat stroke, Hypothermia
    - Fever/Pyrexia- Definition, Causes, Stages, Types, Nursing Management
    - Hot and Cold applications
  - *Pulse:*
    - Definition, Physiology and Regulation, Characteristics, Factors affecting pulse

- Assessment of pulse: sites, equipment and technique
- Alterations in pulse
- *Respiration:*
  - Definition, Physiology and Regulation, Mechanics of breathing, Characteristics, Factors affecting respiration
  - Assessment of respirations: Technique
    - Arterial Oxygen saturation
    - Alterations in respiration
- *Blood pressure:*
  - Definition, Physiology and Regulation, Characteristics, Factors Affecting BP
    - Assessment of BP: sites, equipment and technique, Common Errors in BP Assessment
    - Alterations in Blood Pressure
    - Documenting Vital Signs

### Unit 3:

(15 hours)

#### **Health assessment**

- Interview techniques, Observation techniques, Purposes of health assessment,
- Process of Health assessment
  - Health history
  - Physical examination:
    - Methods-Inspection, Palpation, Percussion, Auscultation, Olfaction
    - Preparation for examination: Patient and unit
    - General assessment
    - Assessment of each body system
    - Documenting health assessment findings

#### **Equipment and Linen**

- Types: Disposables and reusable
  - ✓ Linen, rubber goods, glassware, metal, plastics, furniture
  - ✓ Introduction: Indent, maintenance, Inventory

#### **Introduction to Infection control in Clinical setting Infection**

- Nature, Chain, Types, Stages of Infection
- Factors increasing susceptibility to infection
- Body defenses against infection: Inflammatory response & Immune response
- Health care associated infection (Nosocomial infection)

#### **Introductory concept of Asepsis: Medical & Surgical asepsis Precautions**

- Hand Hygiene (Hand washing and use of hand Rub)
- Use of Personal Protective Equipment (PPE)
- Standard precautions

#### **Biomedical Waste management-Types of hospital waste, waste segregation and hazards**

#### **Comfort, Rest & Sleep and Pain-**

- Comfort-Factors Influencing Comfort, Types of beds & bed making, Therapeutic positions, Comfort devices.
- Sleep and Rest- Physiology of sleep, Factors affecting sleep, Promoting Rest and sleep, Sleep Disorder.
- Pain (Discomfort)- Physiology, Common cause of pain, Types, Assessment, Pharmacological and Non-pharmacological pain relieving measures, Invasive

techniques of pain management, CAM (Complementary & Alternative healing Modalities)

**Unit 4:**

**(15 hours)**

**Promoting Safety in Health Care Environment**

- Physical environment: Temperature, Humidity, Noise, Ventilation, Light, Odor, Pest control
- Reduction of Physical hazards: fire, accidents
- Fall Risk Assessment
- Role of nursing providing safe and clean environment
- Safety devices:
  - Restraints- Types, Purposes, Indications, Legal Implications and Consent, Application of Restraints- Skill and Practice guidelines
  - Other Safety Devices: Side rails, Grab bars, Ambu alarms, non-skid slippers etc.

**Hospital Admission and discharge**

- Admission to the hospital Unit and preparation of unit
  - Admission bed, Admission procedure, Medico-legal issues, Roles and responsibilities of the nurse
  - Discharge from the hospital: Types: Planned discharge, LAMA and Abscond, Referrals and transfer, Discharge Planning, Discharge procedure, Medico- legal issues Roles and Responsibilities of the nurse, Care of the unit after discharge

**Mobility and Immobility**

- Elements of Normal Movement, Alignment & Posture, Joint Mobility, Balance, Coordinated Movement, Principles of body mechanics, Factors affecting Body Alignment and activity, Exercise-Types and benefits, Effects of Immobility, Maintenance of normal Body Alignment and Activity
- Alteration in Body Alignment and mobility
- Nursing interventions for impaired Body Alignment and Mobility: assessment, types, devices used, method.
- Assisting clients with ambulation
- Care of patients with Immobility using Nursing process approach
- Care of patients with casts and splints

**Patient education**

- Patient Teaching: Importance, Purposes, Process, Integrating nursing process in patient teaching

## **REFERENCE:**

1. Audrey Berman and Shirlee Snyder. Kozier & Erb's Fundamentals of Nursing: Concepts, Process and Practice, Pearson; 11th edition (28 February 2020).
2. Potter and Perry. Fundamentals of Nursing; 10th Edition, Elsevier: 28<sup>th</sup> Feb, 2020
3. Sr. Nancy. Principles & Practice Of Nursing Vol 1 Nursing Arts Procedures, HARSHI BOOK STORE (1 January 2019).
4. Comprehensive Textbook Of Foundation Of Nursing Paperback – 1 January 2016  
by Nissanka Rebecca Jaypee Brothers Medical Publishers; first edition (1 January 2016)
5. Fundamentals of Nursing For B.Sc Nursing Students, 3rd.ed. Paperback – 1 January 2020  
by Celestina Francis (Author), Kritika Mishra (Author) Lotus Publishers (1 January 2020)
6. Celestina Francis, Kritika Mishra. Fundamental of Nurses for B.Sc Nursing Students, Lotus Publishers Pvt Edition: 3rd, 2020.
7. Taylor. Fundamentals of Nursing, Wolters Kluwer India Pvt. Ltd.; Eighth edition (1 January 2016)
8. Annamma Jacob. Clinical Nursing Procedures: The Art of Nursing Practice 3rd Edition, Kindle Edition; Jaypee Brothers Medical Publishers (P) Ltd.; 4th edition (1 September 2014).
9. Omayal Achi. Manual of Nursing Procedures, Wolters Kluwer India Private Limited; Second edition (15 January 2018)
10. CP Thresyamma Fundamentals Of Nursing Procedure Manual For General Nursing & Midwifery Course, 1st Edt, Jaypee Brothers Medical Publishers Year: 2004



**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –III**  
**Fundamental of Nursing-I**

**Paper No: XXIII**

**Time: 2 hours**

**Total Marks: 50**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	10 Marks
Q. 2 Long answer Question	10 Marks
Q. 3 Long answer Question	10 Marks
Q. 4 Long answer Question	10 Marks
Q. 5 Long answer Question	10 Marks
Q. 6 Long answer Question	10 Marks
Q. 7 Short Type Questions (any 2 out of 3)	10 Marks

**Bachelor of Vocation (B. Voc.) Part II - Sem. III**

**Skill Enhancement Courses (SEC-C-I)**

**Paper Title: LAB WORK & CLINICAL: MEDICAL SURGICAL NURSING-I**

**Paper No: XXIV**

**Credits: 02**

**Practical: 4 lectures/week**

**Total Marks: 50 (Practical)**

---

**Objectives:**

1. Utilize the nursing process in providing care to the sick adults in the hospital
2. Provide comfort and safety to adult patients in the hospital
3. Maintain safe environment for patients during hospital.
4. Provide pre, intra and post-operative care to patient undergoing surgery.
5. Ensure patient safety while providing nursing procedures.

<b>Sr.No.</b>	<b>Nursing Skills</b>
<b>1.</b>	<b>Pre-operative Preparation</b>
<b>2.</b>	<b>Post operation care:</b> Setting of Postoperative unit, Post operative care, Recovery room, Ward, Surgical dressin, Removal of sutures
<b>3.</b>	<b>Operation Theatre Technique:</b> Preparation & packing of articles for surgery, Disinfecting theOT, Surgical scrubbing, Gowning and Gloving, Setting up of sterile trolley for surgery.
<b>4.</b>	<b>Parenteral administration of drugs:</b> Subcutaneous, Intra dermal, Intra Muscular, Intravenou,Blood transfusion.
<b>5.</b>	<b>Intensive Care:</b> Setting up of emergency trolley, Suctioning , Oropharyngeal, Endo tracheal,Tracheostomy care, Assisiting in endotracheal intubation, Assisting in Ventilator care, Assisting in cardiac monitoring, Assisting in defibrillation, Assisting in monitoring pulse oxymeter
<b>6.</b>	<b>Observation of specific diagnostic &amp; therapeutic procedures</b>
<b>I</b>	<b>Vascular system:</b> IV canulation, Central Venous pressure (CVP)
<b>II</b>	<b>Genito urinary system:</b> Catheterization, Bladder irrigation, Cystoscopy, Assisting in peritonealdialysis, Assisting in hemodialysis, Assisting in renal biopsy

<b>III</b>	<b>Endocrine System:</b> Fasting blood sugar(FBS), Post prandial blood sugar (PPBS), Glucosetolerance test (GTT), Thyroid function test- T3, T4, TSH
<b>IV</b>	<b>Gastro Intestinal System:</b> Proctoscopy, Endoscopy, Cholecystography, Oesophago,gastrodueodenoscopy (OGD)
<b>V</b>	<b>Ostomy care:</b> Gastrostomy, Colostomy, Enterostomy, Ostomy feeding, Pancereatiography(ERCP)
<b>VI</b>	<b>Orthopedic Nursing:</b> Assessment of Orthopaedic Patient, Preparation & assisting in application of plaster cast, Application of splints, Assisting in skeletal traction, Assisting inapplication and removal of prosthesis, Preparation of patient for bone surgery.
<b>VII</b>	<b>Cardio Thoracic Nursing :</b> Cardio Thoracic assessment, Electro cardiogram monitoring (Interpreting ECG), Performing cardio pulmonary resuscitation (CPR), Assisting in CardiacCatheterization, Stress test
<b>VIII</b>	<b>Respiratory Nursing:</b> Postural Drainage, Chest Physiotherapy, Care of Chest Drainage
<b>IX</b>	<b>Miscellaneous:</b> Liver Biopsy, Liver function tests, Abdominal paracentesis, Liver biopsy

### **Nature of Practical Question Paper:**

<b>Internal practical examination</b>	<b>50 marks</b>
<b>1. Carry out Clinical Procedure</b>	<b>10 Marks</b>
<b>2. Care plan for patient as per diagnosis</b>	<b>15 Marks</b>
<b>3. Bedside Viva-Voce</b>	<b>05 Marks</b>
<b>4. Submission of Master File</b>	<b>10 Marks</b>
<b>5. Table Viva – Voce</b>	<b>10 Marks</b>

**Bachelor of Vocation (B. Voc.) Part II - Sem. III**

**Skill Enhancement Courses (SEC-C-II)**

**Paper Title: LAB WORK & CLINICAL: PHARMACOLOGY -I**

**Paper No: XXV**

**Credits: 02**

**Practical: 4 lectures/week**

**Total Marks: 50 (Practical)**

---

**Objectives:** To know the drugs details regarding the classification, Factor affecting action, Indication and contraindication, action, adverse effect and nursing responsibility.

**Format for Drug study book: -**

- i) Drug study
- ii) Index of drug
- iii) Introduction
- iv) Classification of drugs
- v) Factors affecting action of drugs
- vi) Name of the drug ( Trade & Pharmaceutical name )
- vii) Preparation, strength and dose
- viii) Indications and contraindications
- ix) Actions
- x) Adverse effects and drug interactions
- xi) Nursing responsibility
- xii) Conclusion
- xiii) References

**Assignments:**

- a) Pharmacology - Drug Study Book
- b) Pharmacology - Drug Presentation

**Nature of Practical Question Paper:**

**Internal practical examination**

**50 marks**

- |  |                 |
|--|-----------------|
| <b>1. Explain any of the Drug in detail.</b> | <b>15 Marks</b> |
| <b>2. Identification of drug</b>             | <b>10 Marks</b> |
| <b>3. Submission of Drug Book</b>            | <b>15 Marks</b> |
| <b>4. Drug Presentation</b>                  | <b>10 Marks</b> |

**Bachelor of Vocation (B. Voc.) Part II - Sem. III**

**Skill Enhancement Courses (SEC-C-III)**

**Paper Title: LAB WORK & CLINICAL: FUNDAMENTALS OF NURSING -I**

**Paper No: XXVI**

**Credits: 02**

**Practical: 4 lectures/week**

**Total Marks: 50 (Practical)**

**Objectives:** On completion of the course, the students will be able to-

1. Maintain effective human relations
2. Demonstrate skills in techniques of recording and reporting
3. Demonstrate skill in monitoring vital signs
4. Care for patients with altered vital signs
5. Demonstrate skill in implementing standard precautions and use of PPE
6. Demonstrate skill in meeting the comfort needs of the patients
7. Demonstrate skill in admission, transfer, and discharge of a patient
8. Demonstrate skill in caring for patients with restricted mobility
9. Plan and provide appropriate health teaching following the principles.

S.NO	COMPETENCIES	MODE OF DEMONSTRATION
<b>Semester- III</b>		
1.	Vital signs	Simulator/ Standardized patient
2.	Physical Examination	Simulator /Mannequin/ Standardized patient
3.	Comfort Devices	Mannequin
4.	Therapeutic Positions	Mannequin
5.	Physical Restraints and Side rails	Mannequin
6.	Sponge bath, oral hygiene, Perineal care	Mannequin
7.	Nasogastric tube feeding	Tainer/Simulator
8.	Moving and Turning patients in bed	Mannequin
9.	Changing position of helpless patients	Mannequin/Standardized patient
10.	Transferring patients bed to stretcher/ Wheel chair	Mannequin/Standardized patient
11.	Admission, Transfer, Discharge & Health Teaching	Role Play

### SEMESTER - III

Sr.No.	Nursing Skills
1.	<b>Admission of Patient</b>
2.	<b>Transfer of Patient</b>
3.	<b>Discharge of patient</b>
4.	<b>Personal Hygiene:</b> Bath in Bed, Assisted Bath, Hair care, Combing Hair wash, Pediculosis treatment, Oral hygiene: Helpless Patient and Unconscious Patient, Care of hand & feet.
5.	<b>Prevention of bed sores:</b> Back care, Care of pressure points, Bed Sore dressing (minor), Use of special mattress/ beds
6.	<b>Bed making:</b> Bed making without patient, Bed making with Patient, Cardiac bed/ Folder's bed, Operation bed, Divided bed, Fracture bed, Renal Bed
7.	<b>Positioning:</b> Recumbent, Semi recumbent, Fowler's, Prone, Lateral, Supine, Lithotomy
8.	<b>Comfort Devices:</b> Air cushion, Back rest, Bed cradle, Foot boards, Sand bags, Bed blocks, Cardiac table, Ringnards.
9.	<b>Lifting &amp; Moving of Patients:</b> From bed to chair & back, From bed to trolley & back, From trolley to chair & back
10.	<b>Nutrition:</b> Preparation of fluid diet, Preparation of soft diet, Preparation of Normal diet, Serving patients, Feeding helpless patient, Artificial feeding, Insertion of N.G. tube.
11.	<b>Bandaging:</b> Simple spiral, Reverse spiral, Figure of Eight, Simple Spica, Stump bandage, Eye bandage, Ear bandage, Shoulder bandage, Finger bandage & thumb bandage, Breast and chest bandage, Sling & Triangular bandage, Abdominal bandage & T-binder, Collar bandage, Jaw bandage, Splinting.

### Nature of Practical Question Paper:

<b>Internal practical examination</b>	<b>50 marks</b>
1. Carry out Clinical Procedure	10 Marks
2. Care plan for patient as per diagnosis	15 Marks
3. Bedside Viva-Voce	05 Marks
4. Submission of Master File	10 Marks
5. Table Viva – Voce	10 Marks

**Bachelor of Vocation (B. Voc.) Part II - Sem. III (Advanced Diploma)**  
**Skill Enhancement Courses (SEC-C-IV)**

**Paper Title: INTERNSHIP & PROJECT WORK-I**

**Paper No: XXVII**

**Credits: 02**

**Term Work: 2 lectures/week**

**Total Marks: 50 (Internal)**

---

Internship in associated hospital for hands on training and Project work based on any one aspect / Problem related to syllabus.

**Scheme of External Evaluation:-**

**a) Internship**

- |                                 |          |
|---------------------------------|----------|
| 1) Internship Report            | 15 Marks |
| 2) Presentation and viva - Voce | 10Marks  |

**b) Project Work**

- |                                 |          |
|---------------------------------|----------|
| 1) Project Report               | 15 Marks |
| 2) Presentation and viva - Voce | 10 Marks |

**I) Format of Internship Report**

1. Introduction to Course and relevance of associated institutes
2. Objective of Internship
3. Schedule and Attendance of Internship
4. Detail Report on Hands on training regarding acquired skills
5. Conclusion

**II) Project Design and Methodology**

1. Introduction
2. Selection of Problem
3. Objectives
4. Statement of Problem / Project
5. Data Collection, Interpretation
6. Finding and Suggestions
7. Appendices, Bibliography

➤ **Note :**

**Guidelines for internship**

1. Every candidate have to devote per day 6 hours in associated hospital and complete their total Clinical hours as per the subjects.
2. Candidate has to write daily report of work done, and should maintain the daily dairy

3. Candidate has to follow all the rules of associated institute / hospitals.

**Guidelines for Project**

1. Every candidate will be given the mentor for the project, she has to prepare the project work. Under his/ her supervision
2. All candidates must have to follow the **Project Design and Methodology** format



**Bachelor of Vocation (B. Voc.) Part II - Sem. IV**  
**(AECC-CD)**

**Paper Title: ENVIRONMENTAL SCIENCE -II**

**Paper No: XXVIII**

**Credits: 08**

**Theory: 4 lectures/week**

**Total Marks: 100 (Theory 70 + Internal 30)**

**Practical: 2 lectures/week per batch of 20 students**

---

**Units Prescribed for Theory: 70 Marks**

## **Bachelor of Vocation (B. Voc.) Part II - Sem. IV**

### **Generic Elective Compulsory Course (GEC-D)**

**Paper Title: MANAGEMENT OF NURSING SERVICE & EDUCATION -II**

**Paper No: XXIX**

**Credits: 04**

**Theory: 4 lectures/week**

**Total Marks: 50 (Theory 40 + Internal 10)**

**Practical: 2 lectures/week/batch**

---

**Aim:** To enable students to acquire in-depth understanding of management of hospital services, management of nursing services and nursing educational programme and also to acquire understanding of the professional responsibilities, prospects and contribution to the growth of the Nursing profession.

**Specific objectives** – At the end of the course student will be able to:

1. Develop skills in planning and organizing in service education
2. Understand the management of nursing educational institutions.
3. Describe the ethical and legal responsibilities of a professional nurse
4. Understand the various opportunities for professional advancement.

#### **Unit- I**

**(15 hours)**

##### **In-service education**

- Nature & scope of in- service education program
- Organization of in- service education
- Principles of adult learning
- Planning for in-service education program, techniques, methods, and evaluation of staff education program
- Preparation of report

#### **Unit- II**

**(15 hours)**

##### **Management of Nursing educational institutions**

- ❖ Establishment of nursing educational institution – INC norms and guidelines
- ❖ Co-ordination with
  - Regulatory bodies
  - Accreditation
  - Affiliation – Philosophy/ Objectives, Organization
  - Structure

- Committees- Physical facilities
- College / School
- Hostel – Students
- Selection
- Admission procedures
- Guidance and counseling
- Maintaining discipline- Faculty and staff
- Selection
- Recruitment
- Job description
- Placement
- Performance appraisal
- Development and welfare
- ❖ Budgeting
- ❖ Equipments and supplies: audiovisual equipments, laboratory equipments, books, journals etc.
- ❖ Curriculum: Planning, Implementation and Evaluation
- ❖ Clinical facilities
- ❖ Transport facilities
- ❖ Institutional Records, and reports – Administrative, Faculty, Staff and Students.

### **Unit- III**

**(15 hours)**

#### **Nursing as a Profession**

- ❖ Nursing as a Profession
  - Philosophy; nursing practice
  - Aims and Objectives
  - Characteristics of a professional nurse
  - Regulatory bodies; INC, SNC Acts:- Constitution, functions
  - Current trends and issues in Nursing
- ❖ Professional ethics
  - Code of ethics; INC, ICN
  - Code of professional conduct; INC, ICN.
- ❖ Practice standards for nursing; INC
- ❖ Consumer Protection Act
- ❖ Legal aspects in Nursing
  - Legal terms related to practice; Registration and licensing
  - Legal terms related to Nursing practice; Breach and penalties
  - Malpractice and Negligence

**Professional Advancement**

- ❖ Continuing education
- ❖ Career opportunities
- ❖ Collective bargaining
- ❖ Membership with Professional Organizations; National and International
- ❖ Participation in research activities
- ❖ Publications; Journals, Newspaper etc.

**REFERENCES BOOKS:**

1. TNAI. Nursing Administration and Management, 1st edn, Academic Press: New Delhi, 2000.
2. Shakharkar, B M. Principles of Hospital Administration and Planning, Jaypee Brothers: Bangalore, 1998.
3. Pai, Pragna. Effective Hospital Management, 1st edn, The National Book Depot: Mumbai, 2002.
4. Srinivasan, A V. Managing a Modern Hospital, 1st edn, Sage Publications: New Delhi, 2002.
5. Basavanthappa, B T. Nursing Administration, 1st edn, J P Brothers Medical Publishers: New Delhi, 2000.
6. Goel, S & Kumar, R. Hospital Administration and Management, 1st edn, Deep and Deep Publications: New Delhi, 2000.
7. Park K. Park's Textbook of Preventive and Social Medicine, 17th edn, M/S Banarsidas Bhanot Publishers: Jabalpur, 2003.
8. Russels, C S. Management & Leadership for Nurse Managers, 3rd edn, Jones Bartlett Publishers: London, 2002.
9. Francis, E M & Desouza, Mario. Hospital Administration, 3rd edn, Jaypee Brothers Medical Publishers: New Delhi, 2000.
10. Goddard, H A. Principles of Administration applied to Nursing Practice, WHO: Geneva, 1966.
11. Hersey, P., Blanchard, H K & Johnson, E D. Management of Organizational Behavior, Pearson Education Indian Branch: New Delhi, 2002.
12. Barret, Jean. Ward Management and Teaching, 2nd edn, English Book Society: New Delhi, 1967.

**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –IV**  
**MANAGEMENT OF NURSING SERVICE & EDUCATION -II**

**Paper No: XXIX**

**Time: 2 hours**

**Total Marks: 40**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	08 Marks
Q. 2 Long answer Question	08 Marks
Q. 3 Long answer Question	08 Marks
Q. 4 Long answer Question	08 Marks
Q. 5 Long answer Question	08 Marks
Q. 6 Long answer Question	08 Marks
Q. 7 Short Type Questions (any 2 out of 3)	08 Marks

**Nature of Practical Question Paper:**

<b>Internal practical examination</b>	<b>10 marks</b>
1. Assignment as per prescribed units	<b>10 Marks</b>

**Bachelor of Vocation (B. Voc.) Part II - Sem. IV**

**Discipline Specific Core Course (DSC-D-I)**

**Paper Title: MEDICAL SURGICAL NURSING -II**

**Paper No: XXX**

**Credits: 04**

**Theory: 4 lectures/week**

**Total Marks: 50 (Theory)**

---

**DESCRIPTION:** This course is designed to equip the students to review and apply their knowledge of Anatomy, Physiology, Biochemistry and Behavioral sciences in caring for adult patients with Medical / Surgical disorders using nursing process approach. It also intends to develop competencies required for assessment, diagnosis, treatment, nursing management, and supportive /palliative and rehabilitative care to adult patients with various Medical Surgical disorders.

**COMPETENCIES:**

On completion of the course the students will apply nursing process and critical thinking in delivering holistic nursing care with selected Medical & Surgical conditions. At the completion of Adult Health Nursing II course, students will

1. Explain the etiology, patho-physiology, manifestations, diagnostic studies, treatments and complications of common medical and surgical disorders.
2. Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of diagnostic tests in the process of data collection
3. Identify diagnoses, list them according to priority and formulate nursing care plan
4. Perform nursing procedures skillfully and apply scientific principles while giving comprehensive nursing care to patients
5. Integrate knowledge of anatomy, physiology, pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders
6. Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities
7. Demonstrate skill in assisting / performing diagnostic and therapeutic procedures
8. Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders
9. Identify the drugs used in treating patients with medical surgical conditions
10. Plan and provide relevant individual and group education on significant medical surgical topics
11. Maintain safe environment for patients and the health care personnel in the hospital

**Unit 1:****(15 hours)****Nursing management of patient with disorders of Ear, Nose and Throat**

(Includes etiology, Patho-physiology, clinical manifestations, diagnostic measures and medical, surgical, nutritional and nursing management)

- Review of anatomy and physiology of the ear, nose and throat • History, physical assessment, and diagnostic tests

- **Ear**

- o External ear: deformities otalgia, foreign bodies and tumors
- o Middle ear- impacted wax, tympanic, membrane perforation, otitis media, and tumors.
- o Inner ear- Meniere's disease, labyrinthitis, ototoxicity tumors

- Upper respiratory airway infections –Rhinitis, sinusitis, tonsillitis, laryngitis
- Epistaxis, Nasal obstruction, laryngeal obstruction • Deafness and its management

**Nursing management of patient with disorder of eye**

- Review of anatomy physiology of the eye • History, physical assessment, diagnostic assessment

**Eye Disorders:** Refractive errors • Eyelids – infection, deformities • Conjunctiva – inflammation and infection bleeding • Cornea- inflammation and infection • Lens-cataract • Glaucoma • Retinal detachment • Blindness • Eye banking, Eye donation

**Nursing management of patient with burns, reconstructive and cosmetic surgery**

- Review of anatomy and physiology of the skin and connective tissues
- History, physical assessment, assessment of burns and fluid & electrolyte loss
- Burns • Reconstructive and cosmetic surgery for burns, congenital deformities, injuries and cosmetic purposes, gender reassignment • Legal and ethical aspects • Special therapies: LAD, vacuumed dressing. Laser, liposuction, skin health rejuvenation.

**Unit 2:****(15 hours)****Nursing management of patient with Kidney and Urinary problems**

- Review of Anatomy and physiology of the genitourinary system • History, physical assessment, diagnostic tests
- Urinary tract infections • Nephritis, nephrotic syndrome • Renal calculi • Acute and chronic renal failure • Disorders of ureter, urinary bladder and Urethra • Disorders of prostate - inflammation, infection, stricture, obstruction, and Benign Prostate Hypertrophy

**Nursing management of disorders of male reproductive system**

- Review of Anatomy and physiology of the male reproductive system
- History, Physical Assessment, Diagnostic tests
- Infections of testis, penis • Sexual dysfunction, infertility, contraception • Male Breast Disorders - gynecomastia, tumor, climacteric changes

**Nursing management of patients with Immunological problems**

- Review of Immune system • Nursing Assessment – History and Physical assessment
- HIV & AIDS: Epidemiology, Transmission, Prevention of Transmission • Role of Nurse;

Counseling, Health education and home care consideration • National AIDS Control Program – NACO, various national and international agencies, Infection control programs • Rehabilitation

### **Unit 3:**

**(15 hours)**

#### **Nursing management of patient with neurological disorders**

- Review of anatomy and physiology of the neurological system
- History, physical, neurological assessment, diagnostic tests
- Headache, Head injuries • Spinal injuries – Paraplegia, Hemiplegia, Quadriplegia
- Spinal cord compression – herniation of intervertebral disc
- Intra cranial and cerebral aneurysms • Meningitis, encephalitis, brain, abscess, neurocysticercosis • Movement disorders – Chorea, Seizures & Epilepsies • Cerebro-vascular disorders-CVA • Cranial, spinal neuropathies – Bell's palsy, trigeminal neuralgia • Peripheral Neuropathies
- Degenerative diseases - Alzheimer's disease, Parkinson's disease • Rehabilitation of patient with neurological deficit.

**Nursing management of patient with Oncological conditions** • Structure and characteristics of normal and cancer cells • History, physical assessment, diagnostic tests.

- Prevention screening early detections warning sign of cancer • Epidemiology, etiology classification, Pathophysiology, staging clinical manifestations, diagnosis, treatment modalities and medical and surgical nursing management of Oncological condition
- Common malignancies of various body system eye, ear, nose, larynx, breast, cervix, ovary, uterus, sarcoma, renal, bladder, kidney, prostate Brain, Spinal cord.
- Oncological emergencies • Modalities of treatment - Chemotherapy, Radiotherapy - Radiation safety, AERB regulations, Surgical intervention, Stem cell and bone marrow transplant, Immunotherapy, Gene therapy • Psychological aspects of cancer-anxiety, depression, insomnia, anger • Palliative care • Supportive care • Hospice care

#### **Nursing management of patients occupational and industrial disorders**

- History, physical examination, Diagnostic tests • Occupational diseases and management

### **Unit 4:**

**(15 hours)**

#### **Nursing management of patient in Emergency and Disaster situations Disaster Nursing**

- Concept and principles of disaster nursing, Related Policies • Types of disaster; Natural and manmade • Disaster preparedness - Team, guidelines, protocols, equipment, • Resources Etiology, classification, Pathophysiology, staging, clinical manifestation, staging, clinical manifestation, diagnosis, treatment modalities and medical and surgical nursing management of patient with medical and surgical emergencies – Poly trauma, Bites, Poisoning and Thermal emergencies
- Principles of emergency management • Medico legal aspects



**Nursing care of the elderly** • History and physical assessment • Aging process and age related body changes and • psychosocial aspects Stress and coping in elder patient • Psychosocial and sexual abuse of elderly • Role of family and formal and non-formal caregivers • Use of aids and prosthesis (hearing aids, dentures) • Legal and ethical issues • National programmes for elderly, privileges, community programs and health services • Home and institutional care

**Nursing management of patients in critical Care units**

- Principles of critical care nursing • Organization: physical set-up, policies, staffing norms • Protocols, equipment, and supplies, • Special equipment: ventilators, cardiac monitors, defibrillators, infusion pump, Resuscitation equipment • Advanced Cardiac Life support
- Nursing management of critically ill patient • Transitional care • Ethical and Legal Aspects
- Breaking Bad News to Patients and/or their families— Communication with patient and family
- End of life care

**EDUCATIONAL VISITS:**

**Medical Surgical Nursing:**

1. Blood Bank
2. Radiology Department
3. Artificial Limb Center

**Reference :**

1. Black J.M. Hawk, J.H. (2005) Medical Surgical Nursing Clinical Management for Positive Outcomes. (7thed) Elsevier.
2. Brunner S. B., Suddarth D.S. The Lippincott Manual of Nursing practice J.B.Lippincott. Philadelphia.
3. Medical Surgical Nursing: an integrated approach 2 nded, White, L, Delmar Thomson learning (2002) United States
4. Lewis, Heitkemper& Dirksen (2000) Medical Surgical Nursing Assessment and Management of Clinical Problem (6 thed) Mosby.
5. Colmer R.M. (1995) Moroney's Surgery for Nurses (16 thed) ELBS.
6. Shah N.S. (2003) A P I textbook of Medicine, The Association of Physicians of India Mumbai.
7. Satoskar R.S., Bhandarkar S.D. &Rege N.N. (2003) Pharmacology and Pharmacotherapeutics (19 thed) Popular Prakashan, Mumbai.

8. Phipps W.J., Long C.B. & Wood N.F. (2001) Shaffer's Medical Surgical Nursing B.T.Publication Pvt. Ltd. New Delhi.
- 9 Datta T.K. (2003) Fundamentals of Operation Theatre Services, Jaypee, New Delhi.
10. Maheswari J Essentials of Orthopedics (3rd ed) Mehta Publication, New Delhi.
- 11 Pasricha J.S., Gupta R. (2001) Illustrated Text book of Dermatology (2nded) Jaypee brothers New Delhi.
12. Haslett C., Chilvers E.R., Hunder J.A.A. & Boon, N.A. (1999) Davidson's Principles and Practice of Medicine (18th ed) Churchill Livingstone. Edinburgh.
- 13 Walsh M. (2002) Watson's Clinical Nursing and Related Sciences (6th ed) Bailliere Tindall Edinburgh.
14. Medical Surgical Nursing: an integrated approach 2nd ed, White, L, Delmar Thomson learning (2002) United States
15. Medical Surgical Nursing: A Nursing process approach Vol. I & II, Ignatavicius, Donna & Workman, Linda, W. B. Saunders company, Philadelphia (1995)
16. The Lippincott Manual of Nursing practice, 7th ed, Netter, Sandra, Lippincott Williams & Wilkins, Philadelphia

**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –III**  
**Medical Surgical Nursing-II**

**Paper No: XX**

**Time: 2 hours**

**Total Marks: 50**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	10 Marks
Q. 2 Long answer Question	10 Marks
Q. 3 Long answer Question	10 Marks
Q. 4 Long answer Question	10 Marks
Q. 5 Long answer Question	10 Marks
Q. 6 Long answer Question	10 Marks
Q. 7 Short Type Questions (any 2 out of 3)	10 Marks

**Bachelor of Vocation (B. Voc.) Part II - Sem. IV**

**Discipline Specific Core Course (DSC-D-II)**

**Paper Title: PHARMACOLOGY -II**

**Paper No: XXXI**

**Theory: 4 lectures/week**

**Credits: 04**

**Total Marks: 50 (Theory)**

---

**Course Description** - This course is designed to enable students to acquire understanding of pharmacodynamics, pharmacokinetics, principles of therapeutics and nursing implications.

**Specific objectives** – At the end of the course the students are able to:

1. Understand common antiseptics, disinfectants and insecticides.
2. Understand drug acting on various systems of human body.
3. Understand alternative systems of medicines.

**Unit:1**

**(15 hours)**

● **Drugs acting on Nervous System:**

**Basic & applied pharmacology of commonly used:**

- ❖ Analgesics & Anesthetics-
    - ✓ Analgesics - Nonsteroidal antiinflammatory drugs (NSAID)
    - ✓ Antipyretics
    - ✓ Hypnotics and sedatives - Opioids - Non opioids - Tranquilizers - General & local anaesthetics - Gases – Oxygen, nitrous oxide, Carbon dioxide
  - ❖ Cholinergic & anticholinergics-
    - ✓ Muscle relaxants, Major tranquilizers, Anti psychotics, Antidepressants, Anticonvulsants, Adrenergics, Noradrenergics , Mood stabilizers, Acetylcholine, Stimulants
- Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity & role of nurse.

**Unit:2**

**(15 hours)**

● **Drugs used for hormonal, disorders and supplementation, contraception and medical termination of pregnancy •**

- ❖ Estrogens and progesterone
  - ✓ Oral contraceptives and hormone replacement therapy
- ❖ Vaginal contraceptives
- ❖ Drugs for infertility and medical termination of pregnancy
  - ✓ Uterine stimulants and relaxants

Composition, actions dosage route indications contraindications, drugs interactions, side effects, adverse effects, toxicity and role of nurse

### Unit:3

(15 hours)

- **Drugs used for pregnant women during antenatal, labour and postnatal period**
  - ❖ Tetanus prophylaxis
  - ❖ Iron and Vit K<sub>1</sub> supplementation
  - ❖ Oxytocin, Misoprostol
  - ❖ Ergometrine
  - ❖ Methyl prostaglandin F<sub>2</sub>-alpha
  - ❖ Magnesium sulphate
  - ❖ Calcium gluconate

### Unit:4

(15 hours)

- **Miscellaneous:**
  - ❖ Drugs used for deaddiction
  - ❖ Drugs used in CPR and emergency- adrenaline, Chlorpheniramine, hydrocortisone, Dexamethasone
  - ❖ IV fluids & electrolytes replacement
  - ❖ Common poisons, drugs used for treatment of poisoning
    - ✓ Activated charcoal
    - ✓ Ipecac
    - ✓ Antidotes
    - ✓ Anti-snake venom (ASV)
  - ❖ Vitamins and minerals supplementation •
  - ❖ Vaccines & sera (Universal immunization program schedules)
  - ❖ Anticancer drugs- Chemotherapeutic drugs commonly used
  - ❖ Immuno-suppressants and Immunostimulants
- **Introduction to drugs used in alternative systems of medicine:**
  - ❖ Ayurveda, homeopathy, unani and siddha etc.
  - ❖ Drugs used for common ailments

### Reference Books :

1. Satoskar, Bhandarkar, Ainapure: Pharmacology and Pharmacotherapeutics, 18 Edition Popular Prakashan Mumbai.
2. M M Das: Pharmacology, Books & Allied (p) Ltd, 4 Edition 2001.
3. Linda, Skidmore Roth: Mosby's 2000 Nursing Drug Reference, Mosby Inc, Harcourt Health Sciences Company, Missouri 2000.
4. Ramesh Karmegan: First aid to Pharmacology for undergraduates, Paras Medical publishers, Hyderabad, India, 1 Edition 2003.
5. K D Tripathi: Essentials of Medical Pharmacology, 4 Editions, Jaypee Brothers, Bangalore.
6. Govoni & Hayes: Drugs and nursing implications, 8 Edition, Appleton & Lange Newyork.

7. Rodman & Smith: Clinical pharmacology in nursing, 2 Edition, J B Lippincott company, Philadelphia.
8. Richard A Lehne : Pharmacology for nursing care , 3 Edition ,W B S aunders company , Philadelphia, 1990.
9. Lalit Mishra: Drug Today, Vol 12, No 12, Lorina publications Inc. Delhi 2004.

**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –III**  
**Pharmacology-II**

**Paper No: XXII**

**Time: 2 hours**

**Total Marks: 50**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	10 Marks
Q. 2 Long answer Question	10 Marks
Q. 3 Long answer Question	10 Marks
Q. 4 Long answer Question	10 Marks
Q. 5 Long answer Question	10 Marks
Q. 6 Long answer Question	10 Marks
Q. 7 Short Type Questions (any 2 out of 3)	10 Marks

**Bachelor of Vocation (B. Voc.) Part II - Sem. IV**

**Discipline Specific Core Course (DSC-D-III)**

**Paper Title: FUNDAMENTALS OF NURSING -II**

**Paper No: XXXII**

**Theory: 4 lectures/week**

**Credits: 04**

**Total Marks: 50 (Theory)**

---

**DESCRIPTION:** This course is designed to help novice nursing students develop knowledge and competencies required to provide evidence-based, comprehensive basic nursing care for adult patients, using nursing process approach.

**COMPETENCIES**

On completion of the course, the students will be able to

1. Identify and meet the hygienic needs of patients
2. Demonstrate fundamental skills of assessment, planning, implementation and evaluation of nursing care using Nursing process approach in supervised clinical settings
3. Assess the Nutritional needs of patients and provide relevant care under supervision
4. Identify and meet the elimination needs of patient
5. Interpret findings of specimen testing applying the knowledge of normal values
6. Promote oxygenation based on identified oxygenation needs of patients under supervision
7. Review the concept of fluid, electrolyte balance integrating the knowledge of applied physiology
8. Apply the knowledge of the principles, routes, effects of administration of medications in administering medication
9. Calculate conversions of drugs and dosages within and between systems of measurements
10. Demonstrate knowledge and understanding in caring for patients with altered functioning of sense organs and unconsciousness
11. Explain loss, death and grief
12. Describe sexual development and sexuality
13. Identify stressors and stress adaptation modes
14. Integrate the knowledge of culture and cultural differences in meeting the spiritual needs
15. Explain the introductory concepts relevant to models of health and illness in patient care
16. Perform first aid measures during emergencies

**Unit 1:****(15 hours)****Hygiene**

- Factors Influencing Hygienic Practice
- Hygienic care: Indications and purposes, effects of neglected care
  - Care of the Skin- (Bath, feet and nail, Hair Care)
  - Care of pressure points
  - Assessment of Pressure Ulcers using Braden Scale and Norton Scale
  - Pressure ulcers- causes, stages and manifestations, care and prevention
  - Perineal care/ Meatal care
  - Oral care, Care of Eyes, Ears and Nose including assistive devices (eye glasses, contact lens, dentures, hearing aid)

**The Nursing Process**

- Critical Thinking Competencies, Attitudes for Critical Thinking, Levels of critical thinking in Nursing
- Nursing Process Overview: Assessment, Nursing Diagnosis, Goal, Planning, Implementation, Rationale, Evaluation.

**Unit 2:****(15 hours)****Nutritional needs**

- Importance, Factors affecting nutritional needs, Assessment of nutritional status, Review: special diets- Solid, Liquid, Soft, Review on therapeutic diets, Care of patient with Dysphagia, Anorexia, Nausea, Vomiting
- Meeting Nutritional needs: Principles, equipment, procedure, indications: Oral, Enteral: Nasogastric/ Orogastric, Introduction to other enteral feeds-types, indications, Gastrostomy, Jejunostomy, Parenteral- TPN

**Elimination needs**

- Urinary Elimination
  - Review of Physiology of Urine Elimination, Composition and characteristics of urine
  - Factors Influencing Urination
  - Alteration in Urinary Elimination: Facilitating urine elimination: assessment, types, equipment, procedures and special considerations
  - Providing urinal/bed pan
  - Care of patients with
    - Condom drainage
    - Intermittent Catheterization
    - Indwelling Urinary catheter and urinary drainage
    - Urinary diversions
    - Bladder irrigation
- Bowel Elimination
  - Review of Physiology of Bowel Elimination, Composition and characteristics of feces
  - Factors affecting Bowel elimination
  - Alteration in Bowel Elimination
  - Facilitating bowel elimination: Assessment, equipment, procedures
    - Enemas
    - Suppository
    - Bowel wash
    - Digital Evacuation of impacted feces

- Care of patients with Ostomies (Bowel Diversion Procedures)

### **Oxygenation needs**

- Review of Cardiovascular and Respiratory Physiology
- Factors affecting respiratory functioning
- Alterations in Respiratory Functioning
  - Conditions affecting
    - Airway, movement of air, diffusion, Oxygen transport
  - Alterations in oxygenation
  - Nursing interventions to promote oxygenation: assessment, types, equipment used & procedure
    - Maintenance of patent airway
    - Oxygen administration
    - Suctioning- oral, tracheal
    - Chest physiotherapy- Percussion, Vibration & Postural drainage
    - Care of Chest drainage- principles & purposes
    - Pulse Oximetry- Factors affecting measurement of oxygen saturation using pulse oximeter, Interpretation
- Restorative & continuing care
  - Hydration
  - Humidification
  - Coughing techniques
  - Breathing exercises
  - Incentive spirometry

### **Unit 3:**

**(15 hours)**

#### **Fluid and Electrolyte**

- Types of IV fluids
- Calculation for making IV fluid plan
- Complications of IV fluid therapy
- Measuring fluid intake and output
- Administering Blood and Blood components
- Restricting fluid intake
- Enhancing Fluid intake

#### **Administration of Medications**

- Introduction-Definition of Medication, Administration of Medication, Drug Nomenclature, Effects of Drugs, Forms of Medications, Purposes, Pharmacodynamics and Pharmacokinetics
- Factors influencing Medication Action
- Medication orders and Prescriptions
- Systems of measurement
- Medication dose calculation
- Principles, 10 rights of Medication Administration
- Errors in Medication administration, Routes of administration
- Storage and maintenance of drugs and Nurses responsibility
- Terminologies and abbreviations used in prescriptions and medications orders
- Developmental considerations
- Oral, Sublingual and Buccal routes: Equipment, Procedure



- Introduction to Parenteral Administration of Drugs- Intramuscular, Intravenous, Subcutaneous, Intradermal: Location of site, Advantages and disadvantages of the specific sites, Indication and contraindications for the different routes and sites.
- Equipment- Syringes & needles, cannulas, Infusion sets - parts, types, sizes
- Types of vials and ampoules, Preparing Injectable medicines from vials and ampoules
- Care of equipment: decontamination and disposal of syringes, needles, infusion sets
- Topical Administration: Types, purposes, site, equipment, procedure
  - Application to skin & mucous membrane
  - Direct application of liquids, Gargle and swabbing the throat
  - Insertion of Drug into body cavity: Suppository/ medicated packing in rectum/vagina
  - Instillations: Ear, Eye, Nasal, Bladder, and Rectal
  - Irrigations: Eye, Ear, Bladder, Vaginal and Rectal
  - Spraying: Nose and throat
- Inhalation: Nasal, oral, endotracheal/ tracheal (steam, oxygen and medications)- purposes, types, equipment, procedure, recording and reporting of medications administered
- Other Parenteral Routes: Meaning of epidural, intrathecal, intraosseous, intraperitoneal, intrapleural, intraarterial

#### **Unit 4:**

**(15 hours)**

##### **Care of Unconscious Patients**

- Unconsciousness: Definition, causes & risk factors, pathophysiology, stages of Unconsciousness, Clinical Manifestations
- Assessment and nursing management of patient with unconsciousness, complications

##### **Care of Terminally ill, death and dying**

- Loss- Types
- Grief, Bereavement & Mourning
- Types of Grief responses
- Manifestations of Grief
- Factors influencing Loss & Grief Responses
- Theories of Grief & Loss-Kubler Ross 5 Stages of Dying
- The R Process model (Rando's)
- Death- Definition, Meaning, Types (Brain & Circulatory Deaths)
- Signs of Impending Death
- Dying patient's Bill of Rights
- Care of Dying Patient
- Physiological changes occurring after Death
- Death Declaration, Certification, Autopsy, Embalming
- Last office/Death Care
- Counseling & supporting grieving relatives
- Placing body in the Mortuary
- Releasing body from Mortuary
- Overview- Medico-legal Cases, Advance directives, DNI/DNR, Organ Donation, Euthanasia

**First Aid & Emergencies:**

- Definition, Basic Principles, Scope & Rules
- First Aid Management
  - Wounds, Hemorrhage & Shock
  - Musculoskeletal Injuries: Fractures, Dislocation, Muscle injuries
  - Transportation of Injured persons
  - Respiratory Emergencies & Basic CPR
  - Unconsciousness
  - Foreign Bodies- Skin, Eye, Ear, Nose, Throat & Stomach
  - Burns & Scalds
  - Poisoning, Bites & stings
  - Frostbite & Effects of Heat
  - Community Emergencies

## **REFERENCE:**

1. Audrey Berman and Shirlee Snyder. Kozier & Erb's Fundamentals of Nursing: Concepts, Process and Practice, Pearson; 11th edition (28 February 2020).
2. Potter and Perry. Fundamentals of Nursing; 10th Edition, Elsevier: 28<sup>th</sup> Feb, 2020
3. Sr. Nancy. Principles & Practice Of Nursing Vol 1 Nursing Arts Procedures, HARSHI BOOK STORE (1 January 2019).
4. Comprehensive Textbook Of Foundation Of Nursing Paperback – 1 January 2016  
by Nissanka Rebecca Jaypee Brothers Medical Publishers; first edition (1 January 2016)
5. Fundamentals of Nursing For B.Sc Nursing Students, 3rd.ed. Paperback – 1 January 2020  
by Celestina Francis (Author), Kritika Mishra (Author) Lotus Publishers (1 January 2020)
6. Celestina Francis, Kritika Mishra. Fundamental of Nurses for B.Sc Nursing Students, Lotus Publishers Pvt Edition: 3rd, 2020.
7. Taylor. Fundamentals of Nursing, Wolters Kluwer India Pvt. Ltd.; Eighth edition (1 January 2016)
8. Annamma Jacob. Clinical Nursing Procedures: The Art of Nursing Practice 3rd Edition, Kindle Edition; Jaypee Brothers Medical Publishers (P) Ltd.; 4th edition (1 September 2014).
9. Omayal Achi. Manual of Nursing Procedures, Wolters Kluwer India Private Limited; Second edition (15 January 2018)
10. CP Thresyamma Fundamentals Of Nursing Procedure Manual For General Nursing & Midwifery Course, 1st Edt, Jaypee Brothers Medical Publishers Year: 2004

**Pattern of a Question Paper**  
**B. Voc. Part-II Semester –III**  
**Fundamental of Nursing-II**

**Paper No: XXIII**

**Time: 2 hours**

**Total Marks: 50**

**Solve any five questions from the following.**

Q. 1 Multiple choice Question	10 Marks
Q. 2 Long answer Question	10 Marks
Q. 3 Long answer Question	10 Marks
Q. 4 Long answer Question	10 Marks
Q. 5 Long answer Question	10 Marks
Q. 6 Long answer Question	10 Marks
Q. 7 Short Type Questions (any 2 out of 3)	10 Marks

**Bachelor of Vocation (B. Voc.) Part II - Sem. IV**

**Skill Enhancement Courses (SEC-D-I)**

**Paper Title: LAB WORK AND CLINICAL: MEDICAL SURGICALNURSING-II**

**Paper No: XXXIII**

**Credits: 02**

**Practical: 4 lectures/week**

**Total Marks: 50 (Practical)**

-----  
The students will be competent to:

1. Utilize the nursing process in providing care to the sick adults in the hospital
  - a. Perform complete health assessment to establish a data base for providing quality patient care
  - b. Integrate the knowledge of diagnostic tests in patient assignment
  - c. Identify nursing diagnoses and list them according to priority
  - d. Formulate nursing care plan, using problem solving approach
  - e. Apply scientific principles while giving nursing care to patients
  - f. Develop skill in performing nursing procedures applying scientific principle
  - g. Establish /develop interpersonal relationship with patients and family members
  - h. Evaluate the expected outcomes and modify the plan according to the patient needs
2. Provide comfort and safety to adult patients in the hospital
3. Maintain safe environment for patients during hospitalization
4. Explain nursing actions appropriately to the patients and family members
5. Ensure patient safety while providing nursing procedures
6. Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients
7. Provide pre, intra and post-operative care to patients undergoing surgery
8. Integrate knowledge of pathology, nutrition and pharmacology for patients experiencing selected medical and surgical disorders
9. Integrate evidence-based information while giving nursing care to patients
10. Demonstrate the awareness of legal and ethical issues in nursing practice

Sr.No.	Nursing Skills
<b>I</b>	<b>Eye and ENT:</b> Perform examination of Eye, Nose, Throat; Assist with diagnostic and therapeutic procedure, Assist in Irrigation, Performing tracheostomy care, Bandaging Eye, Ear and Nose, Assist with removal of foreign body.
<b>II</b>	<b>Neurology:</b> Perform Neurological examination , Use of Glasgow Coma Scale, Assisting in diagnostic and therapeutic procedure.

<b>III</b>	<b>Gynecology:</b> Assist with Gynaecological examination, Assisting with diagnostic and therapeutic procedure, Teaching Breast self examination, Assist with PAP smear collection.
<b>IV</b>	<b>Burns and Scalds:</b> Assessment of burns Patient, Percentage of burns, Degree of burns, Fluid & Electrolyte replacement therapy, Care of burn wounds, Bathing , Dressing, Preparation for reconstructive surgery & donor area.
<b>V</b>	<b>Oncology:</b> Assist with diagnostic procedures, Biopsies, Pap smear, Bone marrow aspiration, Chemotherapy, Radiotherapy, Pain management , Hormonal therapy, Immuno therapy, Gene therapy, Alternative therapy, Participate in Palliative care.
<b>VI</b>	<b>Critical Care:</b> Monitoring of Patients, Maintaining flow sheet, Care of patient on ventilator, Performing Endotracheal Suctioning, Collection of specimen, Interpretation of ABG analysis, Assist with arterial puncture, Maintaining CVP line, Administration of drugs, Infusion Pump, Epidural, Intra thecal, Intra cardiac, Providing chest physiotherapy, Providing total parenteral therapy.

### **Nature of Practical Question Paper:**

#### **Internal practical examination**

**50 marks**

- |  |                 |
|--|-----------------|
| <b>1. Carry out Clinical Procedure</b>           | <b>10 Marks</b> |
| <b>2. Care plan for patient as per diagnosis</b> | <b>15 Marks</b> |
| <b>3. Bedside Viva-Voce</b>                      | <b>05 Marks</b> |
| <b>4. Submission of Master File</b>              | <b>10 Marks</b> |
| <b>5. Table Viva – Voce</b>                      | <b>10 Marks</b> |

**Bachelor of Vocation (B. Voc.) Part II - Sem. IV**

**Skill Enhancement Courses (SEC-D-II)**

**Paper Title: LAB WORK AND CLINICAL: PHARMACOLOGY -II**

**Paper No: XXXIV**

**Credits: 02**

**Practical: 4 lectures/week**

**Total Marks: 50 (Practical)**

**Objectives:** To know the drugs details regarding the classification, Factor affecting action, Indication and contraindication, action, adverse effect and nursing responsibility.

**Format for Drug study book: -**

- xiv) Drug study
- xv) Index of drug
- xvi) Introduction
- xvii) Classification of drugs
- xviii) Factors affecting action of drugs
- xix) Name of the drug ( Trade & Pharmaceutical name )
- xx) Preparation, strength and dose
- xxi) Indications and contraindications
- xxii) Actions
- xxiii) Adverse effects and drug interactions
- xxiv) Nursing responsibility
- xxv) Conclusion
- xxvi) References

**Assignments:**

- c) Pharmacology - Drug Study Book
- d) Pharmacology - Drug Presentation

**Nature of Practical Question Paper:**

**Internal practical examination**

**50 marks**

- |  |                 |
|--|-----------------|
| <b>1. Explain any of the Drug in detail.</b> | <b>15 Marks</b> |
| <b>2. Identification of drug</b>             | <b>10 Marks</b> |
| <b>3. Submission of Drug Book</b>            | <b>15 Marks</b> |
| <b>4. Drug Presentation</b>                  | <b>10 Marks</b> |

**Bachelor of Vocation (B. Voc.) Part II - Sem. IV**

**Skill Enhancement Courses (SEC-D-III)**

**Paper Title: LAB WORK AND CLINICAL: FUNDAMENTALS OF NURSING -II**

**Paper No: XXXV**

**Credits: 02**

**Practical: 4 lectures/week**

**Total Marks: 50 (Practical)**

- 
1. Implement basic nursing techniques in meeting hygienic needs of patients
  2. Develop skills in assessment, planning, implementation and evaluation of nursing care using Nursing process approach
  3. Identify and meet the Nutritional needs of patients
  4. Plan and Implement care to meet the elimination needs of patient
  5. Develop skills in instructing and collecting samples for investigation.
  6. Perform simple lab tests and analyze & interpret common diagnostic values
  7. Identify patients with impaired oxygenation and demonstrate skill in caring for patients with impaired oxygenation
  8. Identify and demonstrate skill in caring for patients with fluid, electrolyte and acid – base imbalances
  9. Assess, plan, implement & evaluate the basic care needs of patients with altered functioning of sense organs and unconsciousness
  10. Care for terminally ill and dying patients
  11. Identify stress and assist patients to adopt various coping strategies
  12. Acquire skills in assessing and performing First Aid during emergencies

<b>SR. NO</b>	<b>COMPETENCIES</b>	<b>MODE OF DEMONSTRATION</b>
1	Nutritional Assessment	Standardized Patient
2	Providing bed pan & urinal	Mannequin
3	Catheter care	Catheterization Trainer
4	Bowel wash, enema, insertion of suppository	Simulator/ Mannequin
5	Oxygen administration- face mask, venture mask, nasal prongs	Mannequin
6	Administration of medication through Parenteral route- M, SC, ID, IV	IM injection trainer, ID injection trainer, IV arm (Trainer)
7	CPR	CPR Mannequin
8	Medical and Surgical Asepsis	Tainer
9	Pain Assessment	Standardized patient
10	ROM Exercises	Standardized patient
11	Ambulation	Standardized patient
12	Therapeutic Communication and Documentation	Role Play



## SEMESTER IV

Sr.No.	Nursing Skills
1.	<b>Elimination:</b> Giving and removing bedpan, Giving & removing urinal, Perineal Care, Care of incontinent patient, Catheter Care, Enema, Glycerin Enema, Bowelwash, Colonic irrigation, Passing Flatus tube, Suppositories.
2.	<b>Observation, Recording &amp; Reporting :</b> Temperature- Oral/ Axillary/ Rectal, Pulse, Respiration, Blood Pressure, Weight/ Height, Intake/ Output chart, Oral report.
3.	<b>Collection of Specimen:</b> Urine- routine, Midstream & C/S, Feces routine- Foroccult blood, Vomitus, Sputum, Thorat Swab, Wound swab.
4.	<b>Urine testing:</b> Sugar, Albumin, Sp. Gravity, Reaction.
5.	<b>Preparation of Patient:</b> General physical exam, Eye, Ear & Thoart, Rectal, Vaginal.
6.	<b>Therapeutic measures:</b> A) <b>Cold compress:</b> Ice cap, Cold/ tapid sponge, Cold pack, Ice pack B) <b>Hot application:</b> Hot water bag, Fomentation- Medicated, Non-Medicated, Sitz bath
7.	<b>Administration of Medicine:</b> Calculating strength , Preparation of Lotion, Calculation of dosage, Administration of Oral Medicines, Topical Applications of Medicines: i) Ear- Application of drops, ii) Eye- Application of ointment: Instillation of drops and Eye irrigation; ii) Thorat - Gargles, Painting
8.	<b>Inhalation:</b> Medication, Dry, Moist-Steam, Oxygen (prongs, mask), Nebulisation, Use of spirometry
9.	<b>Care of equipment:</b> Bed linen, Blanket, Furniture & fittings, Instruments, Rubber goods, Sanitary utensils, Glass articles, Stainless steel articles, Plastic articles, Kitchen articles, Sharp articles, Enamel articles.
10.	<b>Prevention of cross infection:</b> Hand washing, Isolation technique, Use of gown, gloves, mask & cap, Disinfection of linen, Disinfection of instruments, Disinfection of rubber goods, Disinfection of glass items, Disposal of infected dressing, faces/sputum.
11.	<b>Miscellaneous:</b> Deep breathing & coughing exercises, Active & Passive ROM Exercise, Basic Life Support - CPR, Care of the dead / dying.

## **Nature of Practical Question Paper:**

<b>Internal practical examination</b>	<b>50 marks</b>
---------------------------------------	-----------------

- |   |          |
|---|----------|
| 1. Carry out Clinical Procedure           | 10 Marks |
| 2. Care plan for patient as per diagnosis | 15 Marks |
| 3. Bedside Viva-Voce                      | 05 Marks |
| 4. Submission of Master File              | 10 Marks |
| 5. Table Viva – Voce                      | 10 Marks |

**Bachelor of Vocation (B. Voc.) Part II - Sem. IV (Advanced Diploma)**

**Skill Enhancement Courses (SEC-D-IV)**

**Paper Title: INTERNSHIP AND PROJECT WORK-II**

**Paper No: XXXVI**

**Credits: 02**

**Term Work: 2 lectures/week**

**Total Marks: 50 (Internal)**

---

Internship in associated hospital for hands on training and Project work based on any one aspect / Problem related to syllabus.

**Scheme of External Evaluation :-**

**a) Internship**

- |                                 |          |
|---------------------------------|----------|
| 1) Internship Report            | 15 Marks |
| 2) Presentation and viva - Voce | 10Marks  |

**b) Project Work**

- |                                 |          |
|---------------------------------|----------|
| 1) Project Report               | 15 Marks |
| 2) Presentation and viva - Voce | 10 Marks |

**I) Format of Internship Report**

1. Introduction to Course and relevance of associated institutes
2. Objective of Internship
3. Schedule and Attendance of Internship
4. Detail Report on Hands on training regarding acquired skills
5. Conclusion

**II) Project Design and Methodology**

1. Introduction
2. Selection of Problem
3. Objectives
4. Statement of Problem / Project
5. Data Collection, Interpretation
6. Finding and Suggestions
7. Appendices, Bibliography

➤ **Note :**

**Guidelines for internship**

1. Every candidate have to devote per day 6 hours in associated hospital and complete their total Clinical hours as per the subjects.
2. Candidate has to write daily report of work done, and should maintain the daily diary
3. Candidate has to follow all the rules of associated institute / hospitals.

**Guidelines for Project**

1. Every candidate will be given the mentor for the project, she has to prepare the project work. Under his/ her supervision
2. All candidates must have to follow the **Project Design and Methodology** Format

**Date: 29.08.2023**

To,  
The Registrar  
Shivaji University, Kolhapur

Subject: **Submission of B. Voc. Nursing Part - II Year Advanced  
Diploma structure as per NEP guidelines**

Dear Sir,

I'm submitting herewith First Year **Bachelor of Vocation (B.Voc. Nursing Part-II) –  
Advanced Diploma** Course structure (LEVEL-6) to be implemented from Academic Year  
2023-24.

Kindly accept it and Acknowledge.

Thanking You

Yours Faithfully

(BOS Chairman- IDS)