

Curriculum for Diploma in Renal Nursing
(A specialization course on Renal Nursing Care)



Bangladesh Nursing and Midwifery Council

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Prepared by

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Curriculum for Diploma in Renal Nursing
(A specialization course on Renal Nursing Care)

2019



Bangladesh Nursing and Midwifery Council



G. M. Saleh Uddin

Secretary

Medical Education and Family Welfare Division

Ministry of Health and Family Welfare

Govt. of the people's Republic of Bangladesh



জি. এম. সালেহ উদ্দিন
সচিব

স্বাস্থ্য শিক্ষা ও পরিবার কল্যাণ বিভাগ

স্বাস্থ্য ও পরিবার কল্যাণ মন্ত্রণালয়

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

Preface

Nurses are assumed to take responsibilities in the health care system. The demands of trained and qualified nurses have been increasing remarkably throughout the world. The curriculum is developed on Renal Nursing Care because of dynamic changes of disease patterns and their scientific procedures. Nurses are under taking more advanced and proactive roles in improving the standard of renal nursing services. In accordance with the advanced technology and knowledge development in the field of health science, changes become obvious in nursing education and practices. In addition to these, specialized hospital facilities and units with advanced technology in renal nursing are increasing. However, due to the shortage of specially trained renal nurses, proper renal care and management are hampered. For this reason, advanced knowledge and skills are necessary in preparing future specialized renal nurse to minimize the problems related to renal diseases in the renal care settings.

In considering this Bangladesh Nursing and Midwifery Council has taken initiatives to develop specialization course in different special fields. From this perspective this Diploma in Renal Nursing Curriculum is developed by some experts.

I am confident that this curriculum will be useful to produce competent nurses to reduce the magnitude of the existing renal problem in Bangladesh.

(G. M. Saleh Uddin)

President

Bangladesh Nursing & Midwifery Council and



Acknowledgement

Development of a curriculum is a difficult task which requires expertise, patience, consuming time and energy. I am grateful to the following persons who have given their best efforts to develop the curriculum on renal nursing care.

First of all my heartfelt and sincere appreciation to ISN Pioneer Professor DR. Harun-Ur-Rashid, Chairman Kidney Foundation for taking the initiatives and inspiring Bangladesh Nursing and Midwifery Council for running the specialization course on Renal Nursing.

I wish to express my deep appreciation to Ministry of Health and Family Welfare (Medical Education & Family Welfare Division) and Directorate General of Nursing and Midwifery for providing their administrative support to complete the work.

My special thanks to the experts for completing the excellent work within the time. I am confident that the specialization course will help to produce specialized trained renal nurses.

Finally, my thanks to all other associated staffs who were involved with this work.

(Shuriya Begum)

Registrar

Bangladesh Nursing and Midwifery Council

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Introduction

Renal care is the special type of nursing care that deals especially with human responses to life threatening situation. A renal nurse is a licensed professional nurse who is responsible for ensuring that an ailing patient receives.

About 10% of world population has been suffering from chronic kidney disease. In Bangladesh, the disease is also rapidly increasing comprising 15-17 per cent. About 35 thousand patients with kidney failure are dying every year in Bangladesh. Of them 80 per cent of kidney failure patients die each year in Bangladesh due to inadequate of facilities for dialysis and transplantation. There is huge lack of trained dialysis and transplant nurses in our country. Due to lack of trained nurses it is very difficult to run the dialysis center properly. It is an urgent need to give proper training of dialysis and transplant nurses in our country in order to improve management of kidney failure patients.

In addition, interventional nephrology such as Jugular and femoral catheterization, Continuous ambulatory peritoneal dialysis (CAPD) catheter implantation, kidney biopsy are new modalities of treatment for management of acute kidney injury (AKI) and chronic kidney disease (CKD). Many patients with AKI need management in intensive care unit.

Once kidney disease progress to end stage kidney failure treatment of dialysis and or transplantation are needed. Anterior-venous fistula is created for regular dialysis and needling of fistula is needed intensive training for dialysis nurses.

On the other hand, kidney transplantation is a sophisticated treatment involving specialized nurses with knowledge about special management of ICU care. Intake-output chart, hourly BP check, monitoring of O₂ saturation of patients are special skill to be developed among renal nurses.

CAPD is another mode of treatment for patients with End-stage renal disease (ESRD). Catheter implantation for CAPD, care of CAPD patients, maintenance of CAPD fluid balance, and prevention of infection is the most important in the management of patients. Special training is needed for CAPD nursing.

Nurses today are exposed to many exciting challenges in renal care setting particularly in the management of dialysis and transplant patients.

Advanced knowledge, caring attitude and specialized skill and techniques are essential to achieve successful results.

Therefore, this one year post basic diploma course is designed for registered nurses to practice effectively in several areas of renal care settings.

Description of the program:

Curriculum Title

Diploma in Renal Nursing

Degree Awarded: Diploma in Renal Nursing Certificate

Registration & Certificate: Will be provided by Bangladesh Nursing and Midwifery Council.

Duration of the program: 1 (One) Year.

Bangladesh Nursing and Midwifery Council believe that: This curriculum is formulated for one year post basic specialization course on nursing care of kidney diseases with the following beliefs:

1. Nursing is an integral component of the national health care delivery system;
2. Nurses are expected to have updated knowledge and expertise in nursing practices to care for kidney patients with an holistic approach;
3. Guiding nurses for implementing nursing intervention on the principles of code and ethics of nursing profession.
4. Highest moral values of nurses will be maintained to kidney patients to bring about positive changes in the behavior of themselves as well as society in terms of nursing profession.
5. The program will enable the nurses to identify the critically ill patients and for taking immediate action.
6. The trained nurses on renal nursing will play crucial roles in reducing the sufferings of patients and their relatives such as expenses and hospital staying.

General Objective

The post basic nursing course on kidney diseases aim to prepare nurses to assume responsibilities as kidney nurse specialists in wide range of setting who will be able to manage acute, chronic and emergency situations and long term support of patients with kidney diseases including the correct use and management of sophisticated technology involved in patient care& demonstrate their competencies in client centered kidney patients care nursing based on evidence to promote, maintain and restore health of individuals, families and communities.

Specified Course Objectives:

On completion of the course, the participants will be able to:

1. Understand the kidney anatomy, physiology, patho-physiology of common nephrological diseases.
2. Identify management of common clinical kidney disease, dialysis, and kidney transplant.
3. Calculate, prepare and dispense drugs used in kidney diseases, dialysis and transplant patient.
4. Prepare & maintain equipment (ECG machine, Monitor, Syringe pump, Ventilators etc.) used for the management of kidney patients
5. Analyze the predisposing factors, causes, pathological deviations, diagnostic Procedures, management and complications of kidney problems;
6. Maintain good relation & behavior with patients, their relatives & member of the other disciplines and can explain patient's condition in respects of severity & nature of kidney disease.
7. Review and integrate the knowledge of applied sciences, behavioral sciences and nursing science;
8. Use/apply the concepts, theories and principles of nursing science;
9. Be knowledgeable and skillful in basic and advanced concepts in kidney nursing;
10. Explain the trends and issues related to kidney patient nursing, prevention and control program of kidney problems;
11. Assist in diagnostic procedures, therapeutic and surgical interventions;
12. Demonstrate to have skills in advanced competences in practice of kidney nursing;
13. Practice as a kidney nurse specialist;
14. Establish collaborative relationship with members of other disciplines;
15. Appreciate one-self as a kidney nurse specialist and have positive attitude towards profession.

Curriculum Design

The curriculum is designed in such a way that a harmonious blend of professional, foundation and social science subjects are included in the program. It will help the participants to develop their comprehensive knowledge so that they can handle the patients competently.

Curriculum Structure

This program will be of **52-weeks** duration for professional competencies and skills development. Out of fifty two weeks, sixteen weeks will be for theory; two weeks for lab, twenty four weeks for practicum; four weeks for annual leave; two weeks for final exams, one week for mid-term exam (internal), two weeks for revision class and one week for examination preparatory leave. Each month consists of four weeks. Each week consists of six working days and 6 hours a day for theory including short break. In addition, the practical hour will count 8 hours per day.

Module - wise hours and marks Distribution:

Modules	No of Hours		Marks		
	T & LP	LP	Written	O&P	Total
Module - 1 Renal Medical Nursing	326+48 hrs.	384 hrs.	100	100 (50+50)	200
Module-11 Renal Interventional Nursing	250+24 hrs.	768 hrs.	100	100 (50+50)	200
Grand Total =	576 +72=648 hrs.	1152 hrs.	200	200	400

T Theory Class

LP Lab Practice

CP Clinical Placement

O Oral

P Practical

Master Plan for Diploma in Renal Nursing

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
T	T	T	T	T	T	T	T	LP	P	P	P	P	T	T	T	T	T	T	LP	P	P	P	P	L	L
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
T	T	L	E	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	RC	RC	PL	E	E	L

T	Theory class	=16 weeks (576 hrs.)
LP	Lab Practice	=2 weeks (72 hrs.)
CP	Clinical Placement	=24 weeks (1152 hrs.)
E	Exam	=3 weeks
RC	Revision class	=2 weeks
PL	Preparatory Leave	=1 weeks
L	Leave	=4 weeks

Theory classes will be taken in the initial first eight weeks, then 1 week lab practice in the 9th week & another lab practice in the 20th week. Participants will be placed in clinical practice in the 10th week to 13th week, 21th to 24th weeks and the rest from 31th to 46th weeks. In the meantime, participants will be returned back to theory classes on 14th to 19th weeks and then the rest of 2 weeks from 27-28. Then they will go for revision classes and preparatory leave. Mid - term exam will be held on 30th week *Or the midterm examination may be conducted in a convenient time of an individual institution.* In the same way they will appear in the final exam on 50-51 weeks. Head of the institution or course co-coordinator will manage the leave according to calendar year.

Administration of the program:

1. **Number of Participants :** 25 (The number of participants maybe increase according to the capacity of the organization)
2. **Duration of Course:** 1 (one) year
3. **Student Registration:** After admission every participants must do student registration according to BNMC regulation as a **Registered Renal Nurse.**
4. **Certificate:** Will be provided by Bangladesh Nursing and Midwifery Council.
5. **Licensure:** Will be provided by Bangladesh Nursing and Midwifery Council as a **Registered Renal Nurse.**
6. **Medium of Instruction:** English language is the medium of instruction with supplement of Bangla language if necessary.
7. **Venue:** Venue will be selected by concerned institutions and hospitals.

Admission criteria:

This post basic specialization course is designed for all registered nurses. Applicants who meet the following criteria will be eligible to enter into the course:

1. Registered Nurse.
2. Updated nursing registration.
3. Age not more than 40 years.
4. The candidates who are experienced in the management of kidney patients will be given priority.
5. Understanding and fluency in English is preferable.
6. Candidates must apply through proper channel where applicable.

Admission process

1. Advertisement should be based on the admission policy.
2. The candidate will be selected by the concerned institutions after advertisement.
3. A written test followed by viva-voce will be carried out for selecting the candidates.
4. Admission test questionnaire will cover Nursing Science, English, Bangle and General Knowledge. Examination will be conducted by using MCQ. Each question will carry 01 mark. Duration of examination will be 01(one) hour with 80 MCQ. A candidate must have 60% marks in the both written and oral examination.
5. Marks distribution:

Written-80

- a) Nursing Science-40
- b) English-20
- c) Bangla-10
- d) General Knowledge-10

Oral Exam-20

1. The admission committee will be comprised of-

- a) Director / Representative from the hospital attached to the concerned Institution.
- b) Director Nursing Education/Representative from DGNM.
- c) Registrar/ Representative from BNMC.
- d) Course co-coordinator.
- e) Principle of the Institution.
- f) One Senior Nursing Officer from hospital attached to the concerned Institution.

Teaching-Learning strategies

A range of teaching-learning strategies will be followed for active learning. Learning opportunities are provided for participants which encourage problem solving approach and learning by doing. Besides the nurse teachers, the external specialist (guest lecturers) may be engaged for teaching for the benefit of the students.

Teaching Methods selected are as follows:

- Since it is a skill-based education and training, emphasis will be given on practical session.
- For teaching theories lecture method, group discussion, brainstorming, simulation, seminar/ workshop and demonstration will be used.
- Case study, Problem-based learning, clinical labs, clinical teaching and clinical placement will be used for clinical practice.
- The manual for trainees - used as reading material.

Teaching Aids

- White board, markers and Duster
- Flip chart and marker pen
- Charts and models
- OHP and transparency sheet and pen
- Computer and Multimedia Projector
- CD and DVD
- Current Books and journals
- Internet facilities

Course Requirements

Theory Part

1. Class attendance: at least 90% present
2. Actively participate in class room, group work, individual/group assignments, and other related activities.
3. Submit individual/group assignments in time.
4. Attend in midterm and final examination.

Practical Part

1. Attend and actively participate in pre and post clinical conference as scheduled.
2. Practice and participate in the clinical rotation as scheduled, 100%.
3. Report to the concerned nursing officer of the assigned hospital and ward on time with full uniform.
4. Prepare health education plans and provide health education according to the topic of interest or as allocated.
5. Prepare and submit nursing care plans, and provide nursing care according to the topic of interest or as allocated.
6. Write, submit and present case studies as allocated or of personal interest.

Evaluation of the Course

1. The regular final examination will be held in each academic year in December under the Bangladesh Nursing and Midwifery Council.
2. Each participant must appear in mid-term examination and year final examination. In order to pass each year of the course, a student must pass in all the modules and she/he must pass in each individual assessment area of that specific module.
3. Mid-term examination will include written, oral and practical.
4. Mid-term examination will be held internally by the concerned institution and final examination will be conducted by the Bangladesh Nursing and Midwifery Council.
5. Midterm examination will be conducted as formative assessment. However, the mark will be preserved in the record book of individual institution. It will be done to prepare the students for appearing in final examination.
6. The mark obtained in the formative assessment will be added with the final year mark sheet. The formative assessment mark sheet must be signed by external examiner.

7. Assessment area includes written and /or oral and/or practical/clinical of that specific module.
8. Pass mark: 60% marks must be obtained in written, oral and practical papers separately in each module individually.
9. In order to pass the year final exam, a participant must achieve a pass grade in all of the modules in the final examination.
10. The participant who fails (obtained less than 60%) in any part of the assessment of the module(s) will have a chance to retake the examination in a convenient time.
11. If a candidate fails in either written or practical paper, she/he has to appear again for both the written and practical examination.
12. If a student fails in the first chance, he/she will get two more chance subsequently.
13. If a student fails to meet the clinical practice requirements of the course for any genuine reason (sick, emergency leave etc.). She/he has to make up her/his clinical practice requirements time with submission of necessary documents /certificate.
14. Students will be placed for clinical practice after having two months theoretical and laboratory classes
15. If a student remains absent for more than 3 months with information concerned authority will place this case to the Academic Council. The Academic Council will take the necessary action.
16. The students will be informed of the rules and regulations of the course beginning of the course.
17. Maximum number of participants for practical examination should not exceed 15 per day.
18. One internal and one external examiner (outside of the institution) should jointly conduct practical examination.

Procedures for teaching and placement in clinical areas:

1. There will be one teacher for each course and at least 2 co-teachers for each course where students intake is 25, and 4 co-teacher where students intake is 50 and accordingly (The ideal ratio between teacher and student should be 1:8 for clinical practice)
2. Rotation plan will be developed by the concerned subject`s teachers.
3. The Subject teacher will strictly follow the rotation plan for each course as specified in the curriculum.

Academic council: (Public and Private)

Academic council will be formed as follows:

- Director /Deputy Director Academic
- Course Co-coordinator
- Assistant course co-coordinator
- Nursing superintendent
- Senior Nursing instructor

Examination Committee

Examination committee will be formed before final examination of each year. Members will be selected by Director / Head of the institution.

1. By virtue of the post, the Director / Head of the institution will be chairperson of the examination committee.
2. Registrar / representative from BNMC.
3. Respective subject teacher or coordinator will be the convener of the examination.
4. Subject teacher of the respective courses will coordinate and act as internal examiner during examination.
5. The external examiner of each course will be selected by BNMC
6. Questions setter, moderator, script examiner, tabulator will be selected by the examination committee.
7. Course coordinator will coordinate with other members and integrate teaching learning activities.

Duration of Exam Hours:

Marks	Exam Hours
40-60	2 hrs.
80-100	3 hrs.
120-150	3 hrs. 30 min

All examination will be conducted according to set criteria by BNMC.

Methods of Assessment

Methods of assessment are both formative and summative for theory and practice. In the theory and practice part, formative assessment will be done throughout the course. Major emphasis will be given in the acquisition of clinical skills.

1. Two exams will be held: mid-term examination and final examination.
2. **Formative assessment** includes attendance, class test, or quizzes and in course assignment such as nursing care plan, case study, preparation of written assignment, interpretations of laboratory report, oral presentation, reflective report/journal/diary, report writing and so on.
3. **Summative assessment** includes written, oral and practical examination.
4. Firstly the students will be assessed through mid-term examination.
5. Module-1 and Module -2 will have written oral and practical examination which will be held in the final examination.

Methods of assessment may include a combination of the following strategies:

Theory Part: Questions for written examination:					
Modules	MCQ	SQ	EQ	Formative	Total
Module 1	20x1=20	6x5=30	4x10=40	10	100
Module 2	20x1=20	6x5=30	4x10=40	10	100

MCQ: Multiple Choice Questions.

SAQ: Short Answer Question.

EQ: Essay Question includes (a) case scenario-based questions and (b) essay type questions.

Formative: Mark will be counted from Attendance, Case presentation, Reflective notes, Assignment, Report, Diary writing and Midterm exam.

Practical Part of Questions: Final exam.			
Total marks:100; Exam Hour: 30 minutes to 1 hours			
Item	No of Questions	Marks	Total
Oral (structured)	5	5x5	25
Spotting	5	5x5	25
Procedures with oral questions	2	20x2	40
Formative assessment	Marks will be divided as follows: Class attendance = 2 Midterm examination = 4 <u>Assignment & Presentation = 4</u> Total = 10		10

Modules for the course: There are two modules in the course as follows:-

Module: 1 Renal Medical Nursing.

Module: 2 Renal Interventional Nursing

Renal Nursing

Module 1

Course Outline

Course Title: Renal Medical Nursing

Theory hour: 326 hrs. Lab hour: 48 hrs. Practical hours: 384 hrs.

Marks: Theory-100; Oral & Practical-100

Module description: All RNs who will be selected for the Renal Nursing Course must have critical thinking & decisive power in relation to Nephrology nursing management. Therefore, the Basic review of Anatomy & physiology, Basic principal of pharmacology, Effects, Side-effects, indication, Contraindication and drugs calculation. Introduction of Renal medical nursing, Principles of Renal nursing care & Kidney and Urinary system, diagnosis and management is a very dynamic subject. Component of Renal care nursing include introduction to Pathophysiology, nature of disease, and pathogenesis, Renal emergency such as Anuria, Oliguria metabolic acidosis, haematuria, edema, cardiogenic shock, cardiac arrhythmia, heart block, cardiac arrest etc. Fluid-electrolyte balance, Acid-base balance, Infection and Inflammation, pain syndrome, hematological function, Pulmonary function and multisystem dysfunction, monitoring of cardiac ill patient, The nursing process, drug commonly used, Nephrology management, and the means through which nursing care is rendered.

Course goal:

Students will gain knowledge and skills in providing high level care and be able to provide holistic care in prevention, promotion, and maintenance of health of kidney with ill individual.

Objectives:

1. Review and integrate the anatomy and physiology of the related systems
2. Review of basic principles of drug actions, classifications adverse effects and management of major drug classes.
3. Define nephrology care nursing.
4. Identify the pattern of kidney disease.
5. Interpret the importance of ECG.
6. Describe the need and importance of nephrology nursing care
7. Identify the components of nursing process in nephrology, dialysis & transplant care unit.

8. Explain the role and function of a nephrology care nurse.
9. Describe the guidelines for emergency protocol in nephrology care unit.
10. Make intelligent assessment of nephrology ill patients and initiate appropriate nursing interventions for them.
11. Describe nursing responsibilities for patient with unconscious, due to CKD involvement of multiple organ failure.
12. Take appropriate precautions to prevent complications in critically nephrology ill patients.

Course requirements

Theory part:

1. Attend theoretical class 90%.
2. Actively participate in group discussion and class presentation.
3. Respond and asking question in the class.

Practice part:

1. Provide care to assigned cases.
2. Attend and actively participate in clinical conference with nurse supervisors or clinical teachers as scheduled.
3. Write and submit a case study report.
4. Submit a written health education lesson plan developed for a selected case assignment.
5. Practice as scheduled in the roster 100%.
6. Perform practice procedure as specified in the checklist.

Teaching-learning activities:

- Lecture & discussion
- Group discussion.
- Clinical teaching.(Drugs calculation & bedside dialysis procedure).
- Clinical practice.
- Clinical conference.
- Role play & feed back
- Case Presentation
- Demonstration (health &development)

Course Evaluation:

Course evaluation will be done at the end of the program to judge the performance of the participants. In this stage they are given award or punishment that is they will pass or fail.

Course outline

Hour	Contents
54	<p>Introduction of Anatomy and physiology. Review of anatomical structure and physiological functions of kidney and Urinary system as well as cardiovascular, Respiratory, Endocrine, and nervous system which are related to disorders of these systems.</p> <p>Introduction of pharmacology. Review of basic principles of drug, administration, action, classifications, adverse effects and management.</p> <p>Concept of renal nursing: Incidence and prevalence of CKD disease, problem of kidney disease on society, family, & nations. Importance of renal nursing. Prevention of kidney disease. Nephrology emergency rooms & management of emergency renal patient, Renal Ambulance service & Rehabilitation.</p> <p>Definition of CKD, AKI and classification of these. Definition of glomerulonephritis, classification, Glomerulonephropathy and their histological pattern, Urinary tract infection, Obstructive uropathy, Causes, symptoms, Causes haematuria, Pyuria, Diabetes and Management of Electrolyte acid based balance.</p> <p>Congenital renal disease, Polycystic kidney disease, Renal structural anomaly.</p> <p>Nursing management of Renal patients with in cardiac involvement: Nursing process; Health assessment of renal patient; Communication & Therapeutic</p> <p>Renalcardiac problems: Heart block-TPM, PPM; Cardinogenic shock.</p> <p>Cardiac arrest.</p>
18	Hemodynamic & electrolyte monitoring
12	Nosocomial Infection, Infection and their control
12	Pain management
	Basic renal life support- BRLS; Advanced renal life support- ARLS; Nursing diagnosis and assessment of renal patient:

<p>42</p>	<p>EKG Monitoring; Fluid electrolyte monitoring and management; Vital sign; Oxygen therapy; Chest physiotherapy.</p> <p>PATHOLOGY AND BIOCHEMISTRY.</p> <ol style="list-style-type: none"> 1. Pathological and biochemical samples collection, labeling, preservation and methods of sending to laboratory. 2. Screening tests for blood donors and recipient. 3. Blood grouping and cross matching, collection and preservation of blood for transfusion. 4. Blood transfusion-methods and complications. 5. Normal values of common pathological biochemical laboratory tests. 6. Cardiac enzymes ACT, PT, CKMB Troponin-I, Normal values and methods. 7. ABG Analysis & Interpretation, 8. Others blood test --Serum electrolyte, SGOT, SGPT, Urea, Creatinine, LFT, CBC, HCT 9. Tissue typing and cross matching or transplant patient.
<p>36</p>	<p>RENAL ICU UNIT NURSING.</p> <ol style="list-style-type: none"> 1. Fundamental of ICU nursing - Patient presentations and management, role of nurses. 2. Patient receptions in ICU. 3. Record keeping and monitoring in ICU. 4. Flow-sheet, Hypertension chart, I/O Chart, Diabetic chart, etc. 5. Nursing care and management of haemodialysis, PD Patient. IHD patients.—Angina, stable and unstable angina. <p>Diet of ICU patients Oxygen therapy. Patient transfer from ICU. Death disposal from ICU.</p> <p>Emergency Care-content and maintenance in ICU. Emergency procedure in ICU—nursing preparations. Emergency equipments in ICU—Procurement and maintenance. Preparation of intubation set and Extubation set. Rehabilitation of cardiac patients. Artificial ventilation in ICU patients. Invasive monitoring in ICU.</p>

	<p>Physiotherapy , respiratory therapy & nebulization in ICU patient</p> <p>Drug doses in ICU</p>
24	<p>NON-INVASIVE RENAL PROCEDURES.</p> <ul style="list-style-type: none"> • ECG – (Electrocardiogram) procedure and interpretation. • Radiography—General principle and Anatomical and radiological position of chest viscera in thoracic cavity • Echocardiography- basic for nurses • Color Doppler study. • ABPM- Ambulatory blood pressure monitoring • TEE-Trans-esophageal echocardiogram.
18	<p>Nursing assessment and diagnosis of renal patient.</p> <p>Nursing management of complicated endocrine disorders (diabetic keto-acidosis, hypoglycemia, and hyperglycemia with cardiac patient.)</p>
30	<p>Renal Ward Nursing Care</p> <ul style="list-style-type: none"> • Nursing assessment and diagnosis • Nursing management of renal patient. • Patient admission, discharge and record keeping in ward and cabin • Patient investigations and charting of reports • Vital sign – Check up and recording • Pre-operative and pre-procedural patients preparations in ward and cabin • Special chart maintenance, e.g. Diabetes chart, Hypertension chart, Weight chart, Intake output chart, Patient diet chart etc of renaldisease patient, • Renal cardiac failure, hypertension, etc. • Patient General Hygiene – cleanliness, hair care, nail care, etc. • Pre-operative and Post-operative Physiotherapy for renal surgical patients • Surgical wound care and dressing • Prevention and care of pressure sores • Respiratory nebulization – indication procedure

	<ul style="list-style-type: none"> • Preparation for IV cannulation, Naso-gastric (NG) tube insertion, Urinary Catheterization, etc. • Fluid intake & output chart. • Care of A-V Fistula and JVP, Femoral catheter
12	<p>Multiple organ dysfunction syndrome(MODS):</p> <ul style="list-style-type: none"> • Patho physiological changes in MODS <ul style="list-style-type: none"> ➤ Nursing assessment (APACHE II, SOFA score) ➤ Nursing diagnosis • Nursing management of MODS
12	<p>Assessment of Nutritional status and support to clients with nephrotic problem</p> <p>Health education plan for kidney patient.</p>
12	<p>Evidence based practice</p> <p>Individual development plan (IDP)</p> <p>Interpersonal relationship (IPR)</p>
14	<p>Management and clinical Supervision.</p>
48(Lab)	<p>Laboratory Procedure : Blood drawing procedure, Urine collection, Resuscitation Intubation, Extubation, Height, Weight, Vital sign, Heart sound, Breath sound, Intake & Output chart, Diabetic chart, ICU chart, Uses and handling of bedside monitor, syringe pump, ECG machine, Catheterization & removal of Foleys catheters & others interventional procedures, & Respiratory equipment , Breathing circuit & others devices, Assessment of saturation</p>

Module 2

Course Title: Interventional Renal Nursing

Theory hour: 250 hrs. Practical hours: 768 hrs. Lab: 24 hours.

Marks: Theory-100; Oral & Practical-100

Course Description: Introduction of Behavioral Science & Ethics, Communication, Motivation, Behavioral change communication, Behavioral therapies. Introduction of nephrology Surgical Nursing: Nurses role and responsibilities in restoring health, preventing complications, maintaining health of patient with kidney illness. Centered and holistic care in the context of hospital. Component of renal care nursing include the critically ill patient, the nursing process, airway management, nursing management of patient on assisted Intubation, Ventilator, Chest drain, Hemodialysis, transplant patient and CAPD Patients encountered in nursing care. The drugs commonly used for the patients with interventions, unconscious patients, patients with shock. CPR, multiple organ dysfunction and common nephrology surgical emergency, regimen of drugs commonly used in nephrology and post-transplant unit, infection control measures in nephrology surgery unit, recording & reporting for a critically ill patient. The nursing responsibilities in helping critically ill patients and their families in coping pre & post-operative educational session holistic care to meet the physiological, psychological & spiritual needs of the sick client.

Course Goal:

After completing one year specialized course on nephrology care nursing the participant will demonstrate their competencies and evidence based holistic patients centered care to the patients who are critically ill in nephrology surgical unit.

Course Objectives:

1. Review the introduction and concept of Behavioral science and Ethics.
2. Describe communication and motivation as process in explaining of human behavior.
3. Explain the importance of behavioral therapies in care process.
4. Introduce to nephrology Surgical Nursing: Nurses role and responsibilities in restoring health, preventing complications, maintaining health of patient with renal illness.
5. Maintain and monitor airway of patient including those on assisted ventilation.

6. Explain nursing management of a patient on assisted intubation, ventilator, hemodialysis, transplant patient and Continuous Ambulatory Peritoneal Dialysis (CAPD) Patients encountered in nursing care.
7. Enumerate the drugs commonly used for the patients with interventions, unconscious patients, and patients with shock.
8. Dose of Antibiotic drug and review for AKI and CKD and ESRD patients.
9. Define CPR, multiple organ dysfunction and common nephrology surgical emergency.
10. Explain the importance of maintaining integrity of the critically ill patient.
11. Enumerate the common emergency problems encountered in a critical nephrology unit.
12. Explain the nurse's role in maintenance of equipment, drugs, and supplies in a critical care unit.
13. Give a regime of drugs commonly used in nephrology and post-transplant unit.
14. Describe the infection control measures in nephrology unit.
15. Describe the importance of recording & reporting for a critically ill patient & discuss the nursing responsibilities in helping critically ill patients and their families in coping.
16. Provide pre & post-operative educational session for CKD, Pre dialysis patients.
17. Perform holistic care to meet the physiological, psychological & spiritual needs of the sick client with acute & chronic kidney disease problems.

Course requirement (Theory part):

1. Attend theoretical class 90%.
2. Actively participate in group discussion and class presentation.
3. Respond and asking question in the class

Practice part:

- Provide care to assigned cases (3-5 cases).
- Attend and actively participate in clinical conference with nurse supervisors' clinical teachers as scheduled.
- Write and submit a case study report.
- Submit a written health education lesson plan developed for a selected case assignment.
- Practice as scheduled 100%.
- Perform practice procedure as specified in the checklist.

Teaching-learning activities:

- Lecture
- Group discussion.
- Peer group assessment
- Clinical teaching.
- Clinical practice.
- Case study
- Role play
- Feed back
- Case presentation
- Case scenario & Discussion, Demonstration.(Health & development)

মুদ্রণ পূর্ববর্তী কপি

Course outline : Interventional Nephrology & Renal transplant nursing

Hour	Content
30	<p>Introduction to Behavioral Science and Ethics. Review Communication elements, process, ways of communication, barrier of communication. Nurse- patients Relationship, Behavioral Therapies, Counseling, Psychotherapy, Role of nurses in ICU psychosis patients.</p> <p>Review Motivation Maslow`s Hierarchy motives. Nursing regulation: the role of BNMC.</p> <p>Professional code of conduct; national and international.</p> <p>Legal and ethical aspect in nursing.</p> <p>Introduction to renal nursing, donor and recipient procedure transplant cases, hemodialysis, CAPD, Jugular and femoral catheter, A-V Fistula, Care of fistula hand.</p>
18	<p>Hemodialysis: Machine, Dialysis fluid, HD and Ultra filtration.</p>
20	<p>Pre-operative preparation and post-operative management of renal transplant patient.</p> <p>Pre -operative preparation and post-operative management of kidney donor</p> <p>Pre-operative and post-operative care of renal transplant patient, hemodialysis and CAPD patient, Care of JVP/Femoral catheter, A-V fistula.</p>
36	<p>Fundamental of ICU nursing (Post-operative renal transplant patients).</p> <p>Patient reception after renal transplant surgery from operation theater.</p> <p>Record keeping and patient monitoring in ICU.</p> <p>Immediate post-operative care of renal transplant patients and donor.</p> <p>Respiratory care of ICU patients.</p> <p>Nursing care of patient in ICU with renal problems.</p> <p>Control and prevention ICU infections, isolation patient care in ICU.</p> <p>Routine X-ray chest in ICU indications interpretation pneumothorax pleural effusion.</p> <p>Renal failure in ICU patients: Peritoneal and hemodialysis.</p> <p>Management of renal electrolyte balance of patients or arterial blood pressure monitoring(ABP).Central venous pressure (CVP),Pulmonary artery pressure (PAP)</p>

	<p>Preparation for arterial and neck cannulation</p> <p>ICU patient oral hygiene hair care diet and general care</p> <p>Chest and limb physiotherapy for ICU patients.</p> <p>Choice of intravenous fluids for post-operative renal transplant patients.</p> <p>Immediate post-operative analgesic for renal transplant patients in ICU.</p> <p>Management of diabetes mellitus post-operative renal transplant patients in ICU.</p> <p>Respiratory care of patient in intensive care unit including those on assisted ventilation.</p> <p>Abnormal bleeding of post-operative patient; Shock.</p> <p>Common complications of renal transplant surgery.</p>
5	Invasive monitoring in renal intensive care unit: -arterial blood pressure; central blood pressure; pulmonary artery pressure; Arterial blood gas analysis
24	Operation theater and ICU nursing: suture materials and instrument setup for surgery; hand washing, gloves wearing, and trolley setup; nurse as a surgical assistant.
12	Trolley setup for different procedure: -Intubations & extubation tray; defibrillator use; syringe pump; CVP line; arterial line
30	<p>NEPHROLOGY SURGICAL AND OPERATION THEATER NURSING.</p> <ol style="list-style-type: none"> 1. Fundamental of operation theater (OT) nursing. 2. Suture materials and instruments setup for renal surgery 3. Hand washing, gloves wearing and trolley setup 4. Nurses as a surgical assistant 5. Sterilization procedure:- <ul style="list-style-type: none"> ➤ Water bath, sterilization, boiling, and Autoclaving. ➤ E.O. Gas sterilization, and Formaldehyde sterilization

	<p>6. Preparation of different item for sterilization</p> <p>7. Aseptic non-touch technique in operation theater</p> <p>8. Fumigation and Routine cleaning of operation theater</p>
12	<p>-Assessment of nutritional status</p> <p>-Health education, Physiotherapy & renal Rehabilitation</p>
24	<p>Research and evidenced-based Practice</p>
24 (Lab)	<p>Practical Procedure : ABG, Intubation, Extubation, Airway management, Ventilator setup, Aspiration, Dialysis , Exchange transfusion, Blood warmer, Body warmer, Respiratory equipment, Breathing circuit, HME filter, O2 flow sensor, CVP & Arterial blood pressure measures, PA pressure, IABP , Handling & care of others devices use in renal ICU.</p>

Annexure-I

REFERENCE BOOK

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14. Annals of Internal Medicine
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Nursing Care Plan Format

Client needs/Problems	Objectives	Nursing interventions	Rationale	Evaluation/outcome

Case Plan Form for Clinical practicum

Student Name:

Student no:

Course:

Year:

Name of Clinical instructor:

Duration of Care

given.....days.....from.....to.....

Client's ID.....

Age.....Sex.....Marital status.....

Educational

level.....Address.....

.....

Diagnosis.....

Surgical

Procedure.....Date/month/year.....

Admission Date.....

.....Date.....

Informant.....

.....

1. Patient's illness History

1.1.Chief

Complaints.....

.....

.....

.....

1.2.Present

illness.....
.....
.....
.....
.....
.....
.....
.....

1.3.Past illness

.....
.....

1. Family History

.....
.....
.....
.....
.....
.....

2. Health assessment And Physical examination

2.1. Vital signs Temperature.....degree (°C)

Pulse rate...../minute Rhythm.....

Respiratory rate...../minute Rhythm.....

Blood Pressure.....mm.Hg.

Body weight.....kg

Height.....cm

2.2 Physical examination

General appearance.....

.....
.....
.....

Skull, scalp, face, neck,

thyroid.....

.....
.....

Nose and sinus.....

.....
.....

Mouth (tongue, gingival, teeth, palate)

.....
.....
.....
.....

Throat and tonsils.....

.....
.....
.....

Ears (External and internal canals).....

.....
.....
.....

Eyes (pupils,-size and light reaction, conjunctiva, eye movements)

.....

.....

Lung and chest (include breasts)

.....

.....

Heart (rate, rhythm, sounds)

.....

....

Abdomen and viscera

.....

Anus and rectum (prostate, if

indicated).....

.....

Endocrine system.....

.....

.....

....

Extremities.....

.....

.....

.....

Skin and other

musculoskeletal.....

.....

.....

Lymphatic

glands.....
.....
.....
.....

Neurologic assessment (motor and sensory function,

reflexes).....
.....
.....

2.3 Psychological assessment

.....
.....

2.4. Spiritual

assessment.....
.....
.....
.....

2.5. Family's

concerns.....
.....
.....
.....
.....

Summary of signs and symptoms of a client under your care

Laboratory and investigation Results

D/M/Y	Lab/investigation	Results	D/M/Y	Lab/investigation	Result

Advanced Health Assessment Form

Hospital/Institution-----

Participants/Students Name-----

Date-----

Clients Name-----Age-----Sex-----

Religion-----Occupation-----Race-----

Address-----

Ward -----Bed no-----Reg .no-----

Marital status-----Educational level-----

Admission date-----Medical

Diagnosis-----

Data collection

1. Health history

1.1 Chief complain-----

1.2 Present illness-----

2. Functional Health Pattern Assessment

2.1 Health perception health management pattern -----

2.2 Nutritional metabolic pattern -----

2.3 Elimination pattern-----

2.4 Activity exercise pattern-----

2.5.Sleep rest pattern-----

2.6. Cognitive perception pattern-----

2.7. Self perception self concept pattern-----

2.8. Role-relationship pattern-----

2.9 Sexuality reproductive pattern -----

2.10 Coping stress tolerance pattern-----

2.11 Value believe pattern-----

3. Sign and symptoms during taking care of the patient-----

4. Treatment during taking care of the patient -----

5. Laboratory and Investigations

Date	Type of investigation	Results	Normal range

NURSING CARE PLAN

Nursing diagnosis	Outcome criteria	Intervention	Rationale	Evaluation

Annexure-III

Evaluation Form

Student Health Assessment skills

Students/Participants Name-----Date-----

Skills	Full score	Actual score
<p>History taking :</p> <p>Technique</p> <ol style="list-style-type: none"> 1. Approach and self-introduction 2. Appropriate verbal and nonverbal 3. Asking question concise and appropriate 4. Apply good position & appropriate environment 5. Apply appropriate time spent <p>Content</p> <ol style="list-style-type: none"> 1.Complete & correct health history 2.Taking complete & correct functional health pattern <p>Documentation</p> <ol style="list-style-type: none"> 1.Data are congruent & present a current data without interpretation 2.Both subjective &objective findings are clear &essential to cover all information <p>Physical examination</p> <p>Technique</p> <ol style="list-style-type: none"> 1. Inform and explain about objective and asking permission for examination 2. Good position and provide appropriate environment 3. Expose the body as necessary 		

<p>4. prioritize patient's concern when taking examination</p> <p>5. Perform complete & correct techniques (inspection/palpation/....)</p> <p>6. Apply appropriate time spent</p> <p>Systematic assessment</p> <p>1. Head/face/throat/skin</p> <p>2. Lymph/breast</p> <p>3. Respiratory system</p> <p>4. Cardiovascular system</p> <p>5. Gastrointestinal system</p> <p>6. Neurological and muscular system</p> <p>7. Urinary and reproductive system</p> <p>Interpretation and documentation</p> <p>1. Verify clear and corresponded findings</p> <p>2. Record complete and correct information necessary for documentation</p> <p>Lab investigation</p> <p>1. Provide data related to problem or functional health pattern findings</p> <p>2. Provide current and essential data</p> <p>3. Provide complete & correct data related to patients condition</p>		
<p>Total score</p>		

Comments-----

Signature of an evaluator-----

Annexure-IV

Evaluation Form

Course Lecture Session

Please mark your satisfaction level of this session on the 5 level-scale from extremely satisfaction to the least satisfaction by the marking '√' in the column that represent your satisfaction.

Lecturer Name:

Evaluated topic	Satisfaction Level				
	Extrem ely Satisfa ction (5)	Very Satisfacti on (4)	Fairly Satisfacti on (3)	Less Satisfacti on (2)	Least Satisfa ction (1)
1. Improving knowledge & attitude					
2. Improving skills					
3. Application to practice					
4. Documentation					
5. Duration					
6. Teaching technique/styles					
7. Expertise of the lecture					
8. Frequency of each satisfaction level					
9. Total scores of each Satisfaction level (frequency of each Satisfaction level X Satisfaction scores)					
Total scores					
Mean score (total score/number of trainee /7)					

Annexure-V

Care Nursing

Evaluation Form

Course Practicum

Please ✓ in the column that matches your opinion

5=the most

4=more than average

3= average

2=less than average

1=the least

Item	5	4	3	2	1
<p>Self-evaluation</p> <ol style="list-style-type: none"> 1. I understand goals/objectives of the course 2. I achieve the objects of the course 3. I study and prepare myself for the clinical practice 4. I apply theoretical knowledge to the practice 5. I work load 6. I practice consistently and keep up with schedules 7. I am satisfied with my practice 8. I have improved the following: <ul style="list-style-type: none"> Knowledge Nursing skills(data collection, nursing care plan, return demonstration etc) Human relationship Leadership 					
<p>Implementing the course</p> <ol style="list-style-type: none"> 1. Staff clearly explain goals/objectives of the course 2. Staff always give encouragement and suggestions 3. Staff give clear and useful suggestions 					

Item	5	4	3	2	1
4. Good coordination between theoretical and Practicum Course					
5. Appropriate duration					
6. Cooperation from health team					
Requirements					
1. Suitable workload					
2. Appropriate to the course objectives					
3. Appropriate to the participants					
Total					
Total score					
Mean					

Annexure-VI

Renal Care Nursing

Evaluation Form

Overall Course

(This evaluation form will be filled up by the participants.)

Please √ in the column that matches your opinion

5=the most

4=more than average

3= average

2=less than average

1=the least

Item	5	4	3	2	1	Remarks
1. Curriculum covered updated contents.						
2.Duration of the course						
3.Class size						
4.Lecture room						
6.Lectures						
7.Practice						
8.Works						
9.Study visit						
10.Program arrangement						
11.Food						
12.Opening ceremony						
13. The lecture was clear and relevant						
14.Entertainment						

15.Closing ceremony						
16.Overall satisfaction of the program						
Total Frequency						
Total score						
Mean						

Criteria for written:

- Accuracy
- Clarity
- Creativity
- Originality
- Cleanliness
- Arrangement structure

Criteria for viva:

- Audibility
- Accuracy
- Clarity
- Body language (gesture of posture)
- Time

Criteria for practical:

- Audibility
- Clarity
- Communication skills
- Positive approach
- Systematic
- Efficient and effective use of resource
- Time

Grading Criteria for Written assessment

Criteria	Distinction	Honors	Pass	Fail
Accuracy	Information entirely accurate analytically and complete question answer.	Information entirely accurate and complete answer question.	Information mainly accurate and related to question.	Information inaccurate and unrelated to question.
Clarity and cleanliness	Language more clear and precise. More clear hand writing and appropriate and detail information with full meaning.	Language and hand writing are more clear and meaning always clear.	Appropriate language and meaning and hand writing are generally clear.	Language and hand writing is not clear and unclear meaning.
Originality	Information originality accurate and more details	Originality of the information which is accurate.	Originality on information	No any originality
Arrangement structure	Arrangement is properly organized from first to last connecting with the questions.	Arrangement is well organized and connecting answer is present throughout.	Arrangement is generally organized and some connecting answers are used to integrate the questions.	Arrangement is disorganized and no connecting with the questions.

Grading Criteria for Written assessment

Criteria	Distinction	Honors	Pass	Fail
Audibility	Clear and more audible voice	Voice constantly audible throughout	Voice only inaudible occasionally	Voice Inaudible
Body Language(gesture& Posture)	Use of body language Appropriately according to needs	Use of body language Appropriately according to needs	Good movement and sometimes use body language	Too much movement or not at all
Time	Finished in time by giving appropriate answer and by maintaining speed of the voice	Finished in time by giving appropriate answer and by maintaining speed of the voice	Try to finish in time	No finished in time

Grading Criteria for practical

Criteria	Poor	Good	Very good	Excellent
Positive approach	Not show good attitude	Show friendly attitude but some time fail to use in all	Show friendly attitude at all	Show friendly attitude with empathy and sympathy
Systematic	Procedure is not systematic	Procedure is systematic not appropriate	Procedure is systematic and appropriate	Procedure is more systematic and appropriate
Efficient and effective use of resources	Not utilize the effective resources	Utilize the effective resources	utilize effective and efficient resources appropriately	utilize effective and efficient resources appropriately and analytically
Time	Not finished in time	Try to finish in time	Finish in time systematically	Finished in time systematically using appropriate resources and in good manner
Audibility	Voice Inaudible	Voice only inaudible occasionally	Voice constantly audible throughout	Clear and more audible voice
Clarity	Confused language with unclear meaning while taking with patient and method of doing procedure is not clear	Appropriate language with meaning while talking with patient and method of doing procedure is clear	Language clear and precise, Meaning always clear While talking with patient and clear habit in doing procedure	Language more clear and precise with full meaning while talking with patient And procedure is done appropriately by maintain cleanliness by using clear and analytical knowledge

Study materials:

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Annexure-VII

Students' Clinical Performance Evaluation Form

Student Name:
Year:

BNMC Student ID:

Course title :

Academic year:

Instructor :

Key performance	Observed Behaviors/Criteria	Outcome (rating scores)				Notes/Remark
		Excellent (4)	Good (3)	Fair (2)	Need improvement	
Assessment	Data Collection					
	Cardiac arrest.					
	Hemodynamic & electrolyte monitoring					
	Basic renal life support- BRLS;					
	Advanced renal life support- ARLS;					
	EKG Monitoring					
	Vital sign; Oxygen therapy; Chest physiotherapy.					
	Management of Blood transfusion and complications					
	Record keeping and monitoring in ICU.					
	Patient transfer from ICU.					
	Death disposal from ICU.					
	Emergency procedure in ICU—nursing preparations.					
	Preparation of intubation set and extubation set.					
	Nursing assessment and diagnosis of renal patient.					
	Respiratory nebulization indication procedure					
	Preparation for IV cannulation, Nasogastric (NG) tube insertion, Urinary Catheterization, etc.					
	Blood drawing procedure, Urine collection, Resuscitation					
	Surgical procedure transplant cases, haemodialysis, CAPD, Jugular and femoral catheter					
	Haemodialysis: Machine, Dialysis fluid, HD and Ultra filtration.					

Key performance	Observed Behaviors/Criteria	Outcome (rating scores)				Notes/Remark
		Excellent (4)	Good (3)	Fair (2)	Need improvement	
	Pre-operative preparation and post-operative management of renal transplant patient.					
	Pre -operative preparation and post-operative management of kidney donor					
	CAPD patient, Care of JVP/Femoral catheter, A-V fistula.					
	ICU patient oral hygiene hair care diet and general care					
	ICU patient oral hygiene hair care diet and general care					
	Arterial blood gas analysis					
	defibrillator use; syringe pump; CVP line; arterial line					
	Hand washing, gloves wearing and trolley setup					
	Identifying clients' needs/expectation/problems					
	Clients' needs/ expectation/problems reflects nursing problem					
	Clients' needs/ expectation/problems are comprehensive and holistic					
	Data support identified problems					
	Problems are prioritizes					
Planning	Formulating objectives					
	Objectives are comprehensive and supported the identifying problems					
	Clients involve in planning process					
	Objectives are accordance with medical treatment					
	Objectives are prioritized					

Key performance	Observed Behaviors/Criteria	Outcome (rating scores)				Notes/ Remark
		Excellent (4)	Good (3)	Fair (2)	Need improvement	
Planning (Cont'd)	Identifying intervention					
	Intervention are comprehensive and supported the identified problems and objectives					
	Intervention are identified with sound rationale (based on scientific knowledge)					
	Intervention are specific and appropriate to clients' problems and situations					
	Clients and/or members are actively involved in a plan of care					
	Stating evaluation criteria					
	Evaluation criteria are comprehensive					
	Evaluation criteria are based on scientific knowledge.					
	Evaluation criteria are specific and appropriate for clients					
	Evaluation criteria are suitable to situation					
Implementation	Implementing care plan					
	Implementations are comprehensive and specific to clients					
	Implementations are prioritized					
	Implementations are modified appropriately					
	Student notifies an instructor, other health care team and clients when a plan of care changed or modified					
	Using aseptic technique and universal precaution					
	Wash hand before and after providing care					
	Wears mask, gown and gloves or using other materials or equipments appropriately					

Key performance	Observed Behaviors/Criteria	Outcome (rating scores)				Notes/Remark
		Excellent (4)	Good (3)	Fair (2)	Need improvement	
Implementation (Cont'd)	Maintain cleanliness and/or destroys germs appropriately					
	Maintains sanitary environment of clients					
	Nursing skills					
	Follows correct steps of nursing procedures					
	Provides gentle care					
	Performs nursing care smoothly					
	Performs nursing care with an awareness of safety of oneself					
	Behaviors during practicing in clinic					
	Wear a clean nursing suit					
	Adheres to the institute's roles and regulations					
	Presents self-confidence and express ideas appropriately					
	Respects others					
	Responsibilities and Accountabilities					
	Complete all assignment					
	Be on time					
	Be responsible and accountable on assigned work					
	Devotes self for nursing					

	practice					
	Effectiveness of nursing interventions					
	The objectives of care are met with quality					
	Equipments and materials are used effectively and wisely					
	Equipments and materials are Applied appropriately					
	Time and effort are managed appropriately					

Key performance	Observed Behaviors/Criteria	Outcome (rating scores)				Notes/Remark
		Excellent (4)	Good (3)	Fair (2)	Need improvement	
Implementation (Cont'd)	Recording and reporting nursing actions					
	Documents whenever performing nursing intervention					
	Record data is comprehensive and accurate					
	Data is recorded in timely manner and/or based on priority					
	Data is recorded concisely and clearly					
	Relationship with clients and their families					
	Demonstrates therapeutic relationship					
	Presents an intention to listen to concerns of clients and willingness to support/assist					
	Encourages the clients to involve in nursing care					
	Uses appropriate language and manners					
	Relationship with those involved in care					
	Works cooperatively and appropriately					
	Follows up on instructors' question, comments and/or					

	suggestions					
	Motivates others to involved in nursing care					
	Uses appropriate language and manners					
	Safe nursing practices					
	Maintains in safe environment of client					
	Be alert and sensitive to the potential errors					
	Possesses careful practices and recognizes the need for safety on oneself					
	Notifies immediately when errors occur					

Key performance	Observed Behaviors/Criteria	Outcome (rating scores)				Notes/Remark
		Excellent (4)	Good (3)	Fair (2)	Need improvement	
Implementation (Cont'd)	Ethical behaviors					
	Provides care without discrimination					
	Exhibits evidence of personal integrity (honesty and credibility)					
	Possesses a reliable attribute in both verbal and non-verbal behaviors					
	Be able to control emotion appropriately from time to time					
	Respect clients					
	Inform clients and /or relatives					

	before providing care					
	Maintains clients privacy at all time					
	Maintains confidentiality of client information unless otherwise permitted					
	Provides an opportunity for clients to express their needs					
Evaluation	Organizing evaluation					
	Evaluation criteria are comprehensive and exhaustive					
	Uses appropriate tools					
	Analysis data base on scientific knowledge					
	Evaluates nursing practice constantly and continuously					
	Utilizing evaluation results to nursing practices					
	Uses evaluation result in assessing client's needs/problems					
	Uses evaluation result in planning care					
	Uses evaluation result in performing nursing activities					
	Uses evaluation result in evaluating nursing practices					

Key performance	Observed Behaviors/Criteria	Outcome (rating scores)				Notes/Remark
		Excellent (4)	Good (3)	Fair (2)	Need improvement	
Evaluation (Cont'd)	Using evaluation results for self-improvement in					
	Increasing knowledge					
	Self-analysis					
	Improving nursing skills					
	Improving interpersonal relationship skills					
Frequency						
Scores (Frequency X rating Scores)						
Total score(80X4=320)		Percent=				

Additional

Comments/suggestions.....

Instructor's signature.....Date.....

Student's signature.....Date.....

Annexure-VI

A sample of an ideal Lesson Plan

Subject: Renal Medical Nursing

Topic: Haemodialysis

Aim: The aim of this topic is to provide knowledge to the students on Haemodialysis

Hours: One hrs.

Level of students: Post Basic Registered Nurse

No. of Students: 25

Venue: Kidney Foundation Hospital

Room No. : 405

Responsible Teacher: Dr. Sheikh Moinul Islam

Date: 00/00/2019

Specific learning objective: Upon the completion of the session the students will be able to :

1. Define Haemodialysis.
2. Narrate the indication of Haemodialysis.
3. Write down the purposes of Haemodialysis.
4. Discuss the preparation of a dialysis patient.
5. Demonstrate how to operate a dialysis machine.
6. Manage the complication of a Haemodialysis patient in appropriate way.

Contents	Teaching Methods	Teaching Materials	Time	Teacher -students' Activities	Assessment
Haemodialysis	Brain Storming Lecture Discussion	Multimedia White Board Marker Duster	10 Min.	The Teacher will delivered lecture and the students will listen and take notes.	Observation and asking question.

Contents	Teaching Methods	Teaching Materials	Time	Teacher -students' Activities	Assessment
Indication of Haemodialysis	Brain Storming Lecture Discussion	Multimedia White Board Marker Duster	10 Min.	The Teacher will deliverd lecture and the students will listen and take notes.	Observation and asking question.
Purposes of Haemodialysis	Detto:	Detto:	05 Min	Detto:	Detto:
Preparation of a dialysis patient.	Lecture Discussion Demonstration	Multimedia White Board Marker Duster Video	10 Min.	The Teacher will deliver lecture and show the procedures and the students will listen and take notes.	Observation and asking question.
How to operate a dialysis machine	Detto:	Detto:	10 Min	Detto:	Detto:
Complication of a Haemodialysis patient in appropriate way			10 Min		
Sum-up			05 Min		
Evaluation					
Sign.					

Annexure-VII

A sample of Rotation plan for clinical placement-

Number of students =25

Twenty five students are divided into 06 groups. Group A to E consist of 4 students and only group F 05 students.

Group	Week-1	Week-2	Week-3	Week-4	Week-5	Week-6
G-A	Nephrology	Urology	OT + CAPD	Transplant	HD	POW
G-B	Urology	HD	Transplant	OT + CAPD	POW	Nephrology
G-C	POW	Trtransplant	Nephrology	Urology	OT + CAPD	HD
G-D	HD	Nephrology	Urology	POW	Transplants	OT + CAPD
G-E	OT + CAPD	POW	HD	Nephrology	Urology	Transplants
G-F	Transplants	OT + CAPD	POW	HD	Nephrology	Urology



Office of the Registrar

Bangladesh Nursing and Midwifery Council

203, Shaheed Syed Nazrul Islam Sarani, Bijoy Nagar, Dhaka-1000.

SL.No.....

Statement showing the Mark-Sheet of

Father's Name..... Mother's Name

Roll No. Registration No. Institute

of Final Examination for **Diploma in Renal Nursing** held in the Month of

	MODULE-1			MODULE-2			REMARKS
	Written	Oral & Practical	TOTAL	Written	Oral & Practical	TOTAL	
Full Marks	100	100	200	100	100	200	GPA
Pass Marks	60	60	120	60	60	120	
Marks obtained by the Candidate							

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Annexure-IX

The obtained Marks can be converted into GPA is given as follows-

Marks	Grade	Points
80-100	A	4
70-79	B	3
60-70	C	2
0-59	F	0

This specialization course curriculum is developed by the following experts:

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