

Curriculum for B.Sc. in Nursing 2018



Published by: Bangladesh Nursing and Midwifery Council (BNMC), supported by World Health Organization (WHO) Bangladesh
For more information contact: BNMC, 203, Shaheed Syed Nazrul Islam Sarani, Bijaynagar, Dhaka –1000, Bangladesh
E-mail: info@bnmc.gov.bd, Web: www.bnmc.gov.bd, Phone: 9561116, 9564159

Bangladesh Nursing and Midwifery Council



Curriculum for B.Sc. in Nursing 2018



Bangladesh Nursing and Midwifery Council

B. Sc in Nursing Curriculum 2018
Copyright©BNMC

Published by
Bangladesh Nursing and Midwifery Council, Dhaka
203, Shaheed Syed Nazrul Islam Sarani
Bijaynagar, Dhaka –1000, Bangladesh
E-mail: info@bnmc.gov.bd
Web: www.bnmc.gov.bd
Phone: 9561116, 9564159



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

I am very pleased that the existing curriculum document for Bachelor of Science in Nursing has been updated recently. The duration of this course is four years which has been followed in both public and private colleges under different universities since 2007.

It describes a systematic procedure for reviewing a nursing curriculum, deciding what changes are needed, and developing and implementing a plan for bringing about these changes. It also examines the techniques that should be used to evaluate the plan and to determine how far the revised curriculum meets the criteria that it should be relevant to the health needs of the country and should prepare nurses for effective practice in both urban and community-oriented nursing based health facilities. It is essential that the nursing profession is to be committed to the need for change in nursing education and practice, and that nurses themselves become more actively involved in the change processes.

The demand of the qualified nurses has been increasing globally. The curriculum is needed to modify because of dynamic changes of advanced medical technologies, changing of disease patterns and their scientific management procedures. In addition, the entry qualification of the candidates has also been changed from SSC to HSC level to maintain the quality of nursing education.

Although nurses are the key care providers in the health care system, there is a huge shortage of trained nurses in Bangladesh. Therefore, the present government has taken various initiatives to raise the image of nursing profession by providing higher education and upgrading their professional status that will enable them to maintain standard of nursing education, administration and services across the country.

The revised curriculum is the result of extensive collaboration and cooperation between many professionals and nursing institutions. All these people have contributed useful ideas and practical suggestions, many of which have been incorporated in the final version.

I believe that the updated curriculum will be useful for the both public and private institutions to produce competent nurses who will perform their responsibilities effectively in all settings.

(G. M. Saleh Uddin)

President

Bangladesh Nursing and Midwifery Council



Acknowledgement

The modification of any course curriculum is a dynamic process because of social demands, cultural changes, globalization, changing of disease patterns, development of nursing and medical technologies etc. I am very grateful to many individuals for their support and given efforts during revising and upgrading B.Sc. nursing curriculum.

I wish to express my deep appreciation to the Medical Education & Family Welfare Division, MoHFW and DGNM for providing support to modify and upgrade the Bachelor of Science in Nursing Curriculum.

I wish to express my deep appreciation to the Vice Chancellor, Chittagong Medical University Vice Chancellor, Rajshahi Medical University, Dean, Faculty of Medicine Dhaka University, and Dean, Bangabondhu Sheikh Mujib Medical University for giving their cordial support to modify and update the curriculum for B.Sc. Nursing Course Curriculum.

My special gratitude goes to the WHO for providing technical support and assistance.

My Extensive thanks and appreciation to the experts who gave great efforts and time to revise and upgrade the curriculum document.

Finally, I would also like to express my gratitude to the nurse-teachers from public and private Nursing Institution and Hospitals and other associated office staff for giving their assistance during updating the course curriculum.

(Shuriya Begum)

Registrar

Bangladesh Nursing and Midwifery Council

B. Sc. in Nursing Programme

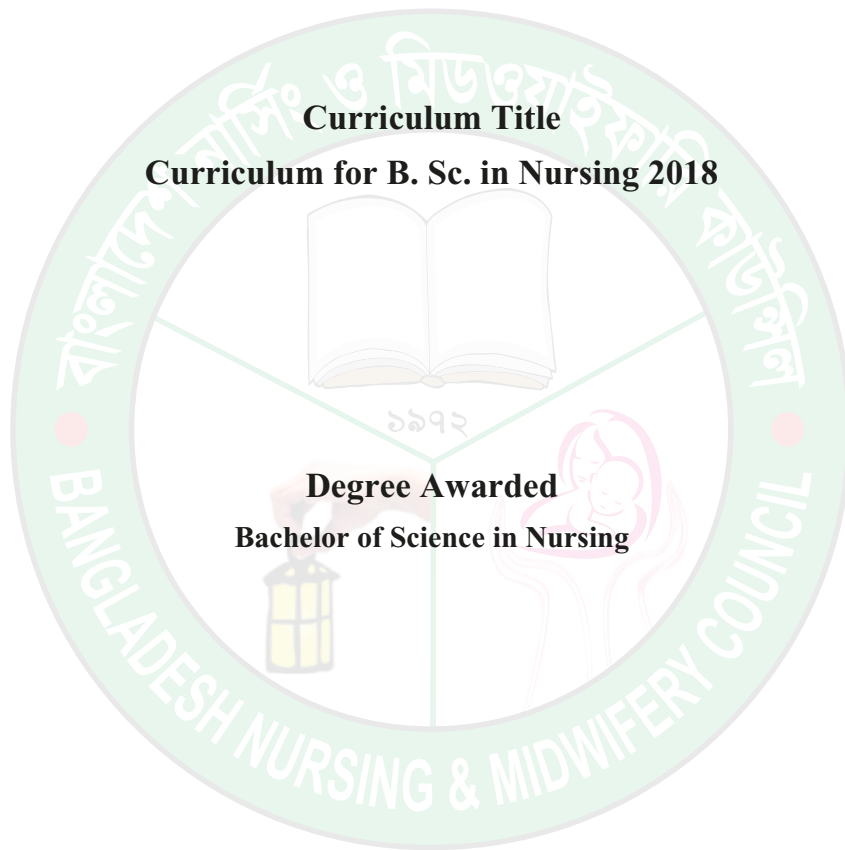


Table of contents

Sl. No.	Contents	Page
1.	Preface	i
2.	Acknowledgement	ii
3.	Curriculum Title	1
4.	Degree Awarded	1
5.	Goal	1
6.	Objectives	1
7.	Framework	2
8.	Curriculum Design	3
9.	Curriculum Structure	3
10.	Methods of selection	3
11.	Duration of the Programme	3
12.	Student Registration:	3
13.	Time limits for completion of B.Sc. in Nursing Degree	3
14.	Medium of Instruction	3
15.	Certification and Licensure	4
16.	Teaching System	4
17.	Students' practical placement	4
18.	Methods of Teaching	4
19.	Examination System & Distribution of Marks	5
20.	Methods of assessment	7
21.	Course Code	8
22.	Code & name of the different courses with hours & marks	9
23.	Year Wise Course Plan	10
24.	Allocated hours & marks against in each subject	11
25.	Course Description	13
26.	Annex-I: Master Plan for overall course structure	24
27.	Annex-II: A sample of Academic Transcript	27
28.	Annex-III: List of;	30

Curriculum for B. Sc. in Nursing

Curriculum Title

B. Sc. in Nursing

Degree Awarded

Bachelor of Science in Nursing

Goal

The overall goal of Bachelor of Science in Nursing degree is to produce competent professional nurses who will be able to demonstrate their knowledge, skills and attitude to provide quality of nursing care in the aspects of practical field to meet expected needs and expectations and to promote, maintain and restore health of individuals, families and communities in common, simple and complex health problems/situations.

Objectives

The objectives of this course are to develop a professional nurse who will be able to:

1. Demonstrate knowledge in:
 - 1.1 Applied and human sciences;
 - 1.2 Nursing science focusing on nursing process, holistic nursing, community-oriented nursing and in-depth knowledge requiring for making clinical nursing judgment in common, simple and complex health problems/situations of nursing clients across the life-span and across health-illness continuum;
 - 1.3 Nursing leadership and management;
 - 1.4 National health care policy;
 - 1.5 Emerging local and global health issues;
 - 1.6 Research and evidence-based nursing; and
2. Demonstrate skills in:
 - 2.1 Using nursing process with in-depth knowledge-based on clinical skills and critical thinking skills in caring for patients with common, simple, and complex health problems/situations across the life-span and across health-illness continuum in order to promote, maintain, and restore health;
 - 2.2 Providing patient -centered and holistic care with caring behaviors;
 - 2.3 Carrying out knowledge-based and community-oriented nursing practice with positive attitudes, ethical behaviors and accountability in accordance with the BNMC rules, regulations and professional standards;
 - 2.4 Communicating effectively with nursing clients, nursing members, physicians, and other health care providers;
 - 2.5 Working collaboratively in a health care team as a member or a novice leader of the nursing care team;
 - 2.6 Leading and managing as a novice in-charge nurse;
 - 2.7 Guiding and fostering good clinical environment to nursing students and other support staff who work under nursing supervision;
 - 2.8 Thinking critically and committing to self-directed learning;
 - 2.9 Carrying out simple nursing research project;
 - 2.10 Carrying out evidence-based nursing practice;
3. Appreciate people as a nurse, have positive attitudes towards patients, society, profession of nursing and self-directed lifelong learning.

Curriculum Framework:

The B.Sc. in nursing course is designed to offer a sequence of learning experiences, from simple to complex. The curriculum framework (Figure 1) incorporates situations significant to nursing in dealing with health of individuals, families, and communities within the health-illness continuum and throughout human developmental stages (from newborn to elders, including pregnancy) for achieving nursing goals (promoting, maintaining and restoring health). Essential competencies required for quality nursing –care is integrated throughout the curriculum.

These include competencies in:

1. Using nursing process in common, simple, and complex health problems/situations with the considerations of patient-centered, holistic, community-oriented, and knowledge-based nursing;
2. Carrying out ethical behaviors and concerning ethical and legal issues;
3. Developing management and leadership skills; and
4. Developing self-directed and life-long learning skills.

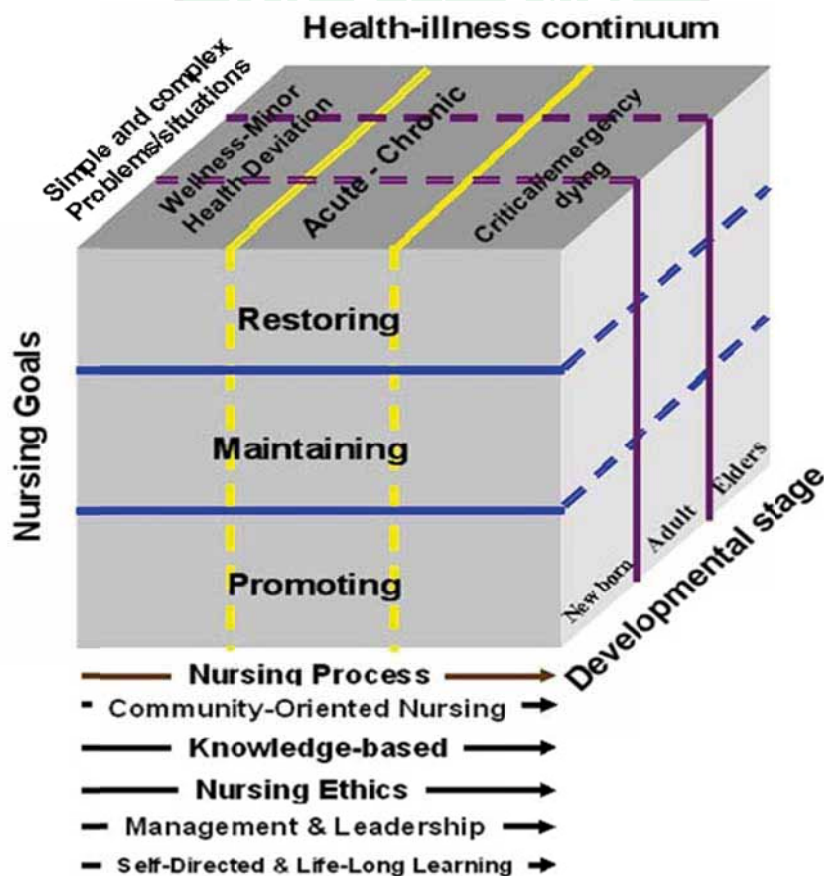


Figure 1: Curriculum Framework of the B.Sc. in Nursing Course

Curriculum Design

The curriculum is dynamic with provision for incorporating emerging health problems and changing health policies as well as latest advancement in health sciences. The B. Sc. in nursing curriculum is designed for BNMC recognized institutions and incorporate as (1) General courses (2) Foundation courses and (3) Professional courses for nursing to furnish students with essential and in-depth knowledge relevant to health and nursing. The courses are sequenced from year one to year four, from simple to complex, with an attempt to increase students' competencies overtime.

Curriculum Structure

The B. Sc. in nursing course will be of four years duration for professional competency development. Each academic year consists of 52 weeks. Out of 52 weeks, 44 weeks will be reserved for theory, laboratory classes, clinical practice, field visit, revision class, term exam and final exams. Remaining 8 weeks will be used for students' preparation, exam break and leave. This break may also allow time for students who fail a course to take re-exam, or to do additional study like assignment & practice to improve their academic performance in order to fulfill the requirement of the course.

Each week consists of 6 working days and 6 hours a day for theory & lab. So for theory and lab session a week consists of 36 hours. Each week consists of 6 working days and 8 hours a day for clinical practice. So for practice, a week consists of 48 hours.

Each year is divided into two terms of 26-week of duration, which assist to implement the curriculum in gradual and uniformed manner. Term examination will be held in 22 week & 23 week for assisting students to identify their progress & marks will be added in final examination with written as formative assessment. However, the individual institutions may conduct the term examination according to the convenient time of the institution.

Methods of student selection

1. Minimum qualifications will be HSC in Science group or equivalent. Biology subject is mandatory.
2. Students will be selected on merit basis. Merit score will be determined from cumulative result of GPA in SSC, HSC & admission test which will be decided by admission committee.
3. Successful candidates must submit their medical fitness certificate before admission.
4. Admission test will be conducted as per Act. of BNMC-2016 according to admission policy.

Duration of the Programme

A period of four (4) years of education is compulsory for B. Sc. in Nursing Programme. Total hours are 5832 in four years course. Academic year will start from January in each year. After completion of the program every student has to perform 06 (six) months internship in an appropriate clinical areas/hospitals according to logbook. On the successful completion of the course, the student is required to take the BNMC comprehensive examination for licensing as a registered nurse.

Student Registration

After admission student should complete their B. Sc. in Nursing student registration as per BNMC Act (Act No. 48 of 2016) Clause-5 (TA) and rules, regulations of concerned university. The validity of the student registration will be of 8 (Eight) years.

Time limits for completion of B.Sc. in Nursing Degree

Ideally four years will be required for the completion of Bachelor of Science in nursing programme. If students fail in any year, they will get maximum 3 (three) chances to pass the examination. For 4th times appearing, the candidate will be required special permission from the Dean, Faculty of Medicine/Nursing

provided the candidate would have to drop one year final examination. In case of failure in the 5th time, she/he might take permission from the Vice Chancellor for appearing the next examination. However, it should be happened once in the 4 years academic course.

Certification and Licensure:

Bangladesh Nursing and Midwifery Council will issue license/registration as a registered nurse after passed comprehensive or licencing examination.

Medium of Instruction

English language is used as a medium of instruction with supplemental Bangla language as necessary.

Teaching System

Colleges may have their own preference for conducting the teaching sessions. Teaching (theory and practice) sessions may be arranged either in block or study day system.

Students' practical placement

Rotation plan for clinical and field practice of the students will be initially planned by the concerned teacher, which will be finalized through a discussion with hospital nursing authority/director. Effective communication and coordination between college and hospital personnel is essential in this regard.

Methods of Teaching

Teaching strategies and learning experiences used throughout the programme are those appropriate for adult learners. Interactive teaching-learning methods are carefully selected to facilitate active learning and critical thinking based on the adult learning cycle.

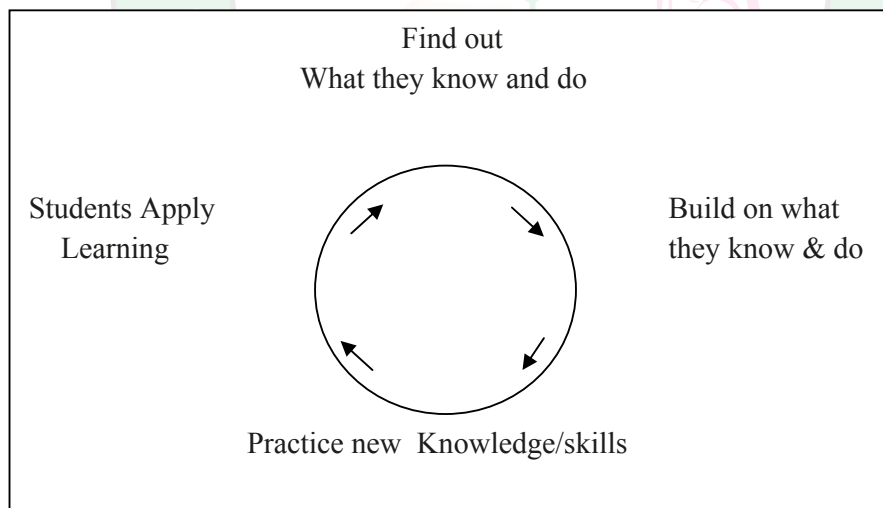


Figure 2: Adult learning cycle

Teaching-learning strategy is the provision of theoretical information followed by opportunities to apply the knowledge in a real or simulated situation. In a similar way practical skills are first demonstrated, and each student subsequently practicing the skills themselves, in a controlled context, to achieve competency. Once basic competence is obtained, the students practice the skills in real situation. Interactive teaching-learning methods such as lecture, demonstration, discussion, role-play, case study, simulation, group work etc. will be used with various teaching aids. These methods encourage cooperative working and prepare nurses for their role as members of health team. The external specialists

(guest lecturers) may be used for teaching of some part of courses for the benefit of students. There should be a provision for student counselling & tutorial classes to resolve the academic and personal problems related to study.

Examination System & Distribution of Marks

1. Regular final examination will be held twice in each academic year in December and June under the concerned university;
2. Each examination will be considered as regular;
3. Each academic year is divided into two terms of 26-week of duration.
4. A term examination will also be conducted internally in the each academic year by the individual institution/college;
5. A student must appear in each year final examination. In order to pass each year of the overall course, a student must achieve a pass grade in all subjects in that year. In order to pass a subject, a student must pass in each individual assessment area of that specific subject;
6. Assessment area includes written and/or oral and/or practical/clinical of that specific subject;
7. Student who fails (obtains less than 60%) in any part of the subject(s), she/he will appear in the next exam;
8. If a student fails in the first year exam, she/he will get maximum four chances for passing the examination of that year. She/he may attend 2nd year classes but will not be allowed to appear in the 2nd year final exam until she/he passes all subjects of 1st year. The same rule is applicable for 2nd, 3rd and 4th year;
9. All assessment will be conducted according to set criteria. If any question arises, the examination committee will resolve that;
10. Examination committee to be formed before each year final exam to conduct examination;
11. All examinations will be governed by the existing rules of the university;
12. Year final examination will be taken at the end of each academic year and re-examinee candidate will appear in the next exam;
13. The examination system and total marks for written, oral and/or practical is shown against each subject separately in the curriculum/syllabus;
14. Total marks in each year of B.Sc. in Nursing Programme are as follows:

First year final	= 1000
Second year final	= 1000
Third year final	= 900
<u>Fourth year final</u>	<u>= 900</u>
Grand total	= 3800
15. In case of 100 marks of written examination the distribution will be as follows:

Written (SAQ+EQ)	= 70
MCQ & Best Answer	= 20
Formative	= 10
16. In case of 70 marks of written examination the distribution will be as follows:

Written (SAQ+EQ)	= 40
MCQ & Best Answer	= 20
Formative	= 10

17. Formative assessment: 10 Marks is allocated for formative assessment of each paper, when a total mark of written exam is 70 or 100;

- 10 marks of formative assessment will be divided as follows:

Class attendance	= 2 ($\geq 80\%$)
Term examinations	= 4 (Term 60%-69% = 2, 70%-79% =3, $\geq 80\%$ =4)
<u>In-course assignment</u>	= 4
Total	= 10

* Eligible criteria for appearing final exam is 6 out 10

18. Objective Type Questions (it will cover 10 Best & 10 Correct answer):

20 marks is allocated for MCQ & Best answer, when total marks of written exam are of 70 or 100. The rest marks of the written examination is allocated for SAQ and EQ. The written script will be divided into two papers (Group-A & B);

19. The Oral and/or Practical examination will be taken after final written examination;

20. Marks of Practical examination in each subject will be as follows:

a. 10 marks are allocated for Formative Assessment. This includes attendance (clinical/field) and evaluation of clinical/field performance. Clinical/field performance may be evaluated through care plan, case studies & presentation, individual report, debate, oral presentation and teaching session;

b. If a student fails to meet the clinical & field practice requirements of the course for any genuine reason (sick, emergency leave etc.), she/he has to make up her/his clinical practice requirements in extra time with submission of necessary documents/medical certificate;

c. 10 marks of formative (practical) assessment will be divided as follows:

Practical attendance	= 2 ($\geq 85\%$)
Field visit/clinical assignment report	= 4
<u>Case studies & presentation</u>	= 4
Total	=10

*Eligible criteria for appearing final exam is 6 out 10

21. Rest of the marks is distributed equally for oral and practical examinations where applicable;

22. Oral and Practical examination will be conducted together and marks will be aggregated;

23. Oral examination will be assessed by Internal and External assessors by using Structured Questions;

24. Practical Examination may include OSPE (Objective Structured Practical Examination) or/and traditional methods, and practical note book/ laboratory notebook/lesson plan preparation/teaching session/reflective notebook;

25. Pass mark: 60% marks must be obtained in written, oral, practical and clinical examination of each subject & in individual area;

26. If a student fails in any paper, she/he will appear only failed paper. For example, if student fails in paper I or II of the Anatomy & Physiology, the student has to appear only the failed paper;

27. Honours mark: Honours mark should be awarded when 80% and above mark is obtained in all subjects;
28. Distinction: When 80% or more mark is achieved in any (one or more) subject, this is called distinction.
29. Position should be based on the aggregated mark of written, oral and practical examination of all subjects;
30. Re-examinee student will not get the position, but may get distinction mark in individual subject;
31. Attendance and Marks:

Class attendance	Marks	Practical attendance	Marks
80% and above	=2.0	85% and above	= 2.0

- a. Duration of Examination hours for 100 marks:
 - MCQ = 20 minutes
 - SAQ = 2hrs 40 minutes
- b. Duration of Examination hours for 70 marks:
 - MCQ = 20 minutes
 - SAQ = 2 hrs10 minutes
32. Practical competencies of students will be assessed by using Checklist Manual;
33. Competence based every subject should have a Checklist Manual to evaluate the performance.

Methods of Assessment

Methods of assessment are both formative and summative for theory as well as practice. Major emphasis will be given in the acquisition of clinical skills of professional courses.

1. Formative Assessment

- 1.1 In the theoretical part, formative assessment will be done throughout the programme, which includes a combination of class attendance, term examinations (term examinations will be held as per institutional convenient time). Out of 100 marks a student must obtain 60% in written/oral/practical examinations. However, in the term examination students must obtain 3 out of 4 marks. In the area of in course assignment a range of strategies will be performed such as written assignment, preparation of posters, booklets, laboratory reports, practical notebook, case study, nursing care plan, oral presentation, report writing etc. If a student fails to obtain the pass mark he/ she has to perform the activities again.
- 1.2 In the practical part formative assessment includes attendance (clinical/field) and evaluation of clinical performance. Evaluation of clinical/field performance will be done through observation, check list, nursing care plan, case presentation, report writing, practical notebook, health education session, teaching session and maintaining diary for reflective learning.

2. Summative assessment

Summative assessment will be done at the end of the course which includes written, oral and practical examination.

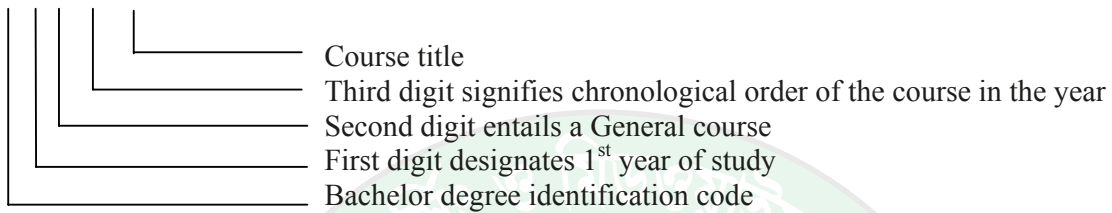
Course Code

Course code means designation and numbering system of a course.

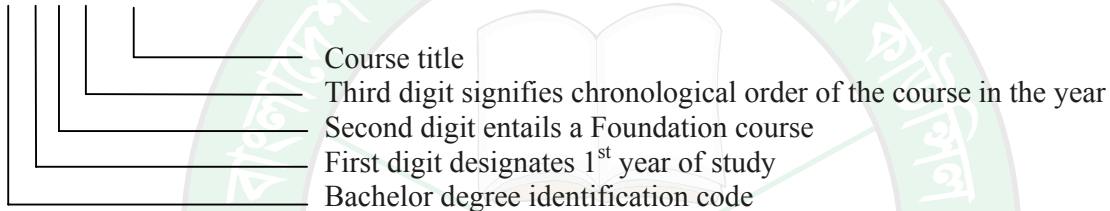
Each course is designated by a letter B which stands for B. Sc. in nursing degree followed by a three-digit number with the following criteria:

- First digit indicates the year of study;
- Second digit indicates whether the course is general (1) foundation (2) and professional (3) and
- The third digit indicates chronological order of the subject of specific year. The course code is illustrated by three examples.

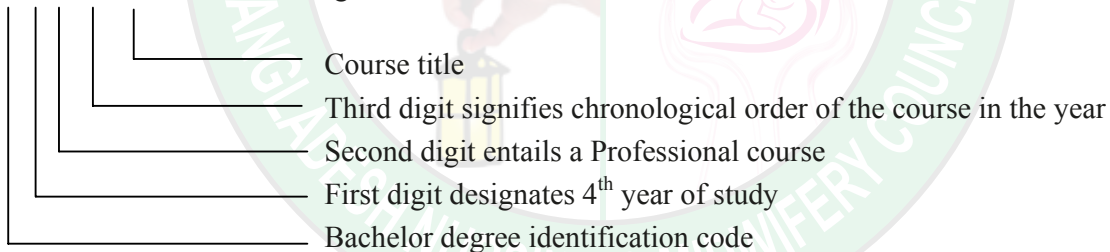
B 1 1 2 Behavioral Science



B 1 2 3 Anatomy & Physiology



B 4 3 3 Research in Nursing



Code & name of the different courses with hours & marks

1. General Course	= 2
2. Foundation Course	= 1
3. Professional Courses	= 12
Total	= 15

Code	Name	No. of Hours	Marks	
General (1)				
		T/L/P	W + (O+P)	Total
B111	Communicative English and Information & Communication Technology Paper I & II	108/88/0	140+60	200
B112	Behavioral Science	112/0/48	100+50	150
Foundation (2)				
B123	Anatomy & Physiology Paper I & II	192/72/0	200+100	300
Professional courses (3)				
B 134	Fundamentals of Nursing –1 Paper I & II	272/200/240	200+150	350
B 231	Fundamentals of Nursing –2 Paper I & II	180/32/96	200+100	300
B 232	Pediatric Nursing	96/16/144	100+100	200
B 233	Medical & Surgical Nursing-1 Paper I & II	156/36/480	170+130	300
B 234	Orthopedic Nursing	72/24/144	100+100	200
B 331	Medical & Surgical Nursing- 2 Paper I & II	176/0/384	200+100	300
B 332	Community Health Nursing	132/0/240	100+100	200
B 333	Psychiatric Nursing	80/0/192	100+100	200
B 334	Emergency & Critical Care Nursing	80/36/192	100+100	200
B 431	Midwifery Paper I & II	208/72/736	200+200	400
B 432	Nursing Education & Management Paper I & II	144/0/192	170+130	300
B 433	Research in Nursing	80/0/80	100+100	200
Total		2088/576/3168	2040+1660	3800
		Grand total=5832		

Year Wise Course Plan

Code & name of the different courses with hours & marks

1. General Course	= 2
2. Foundation Course	= 1
3. <u>Professional Courses</u>	= 12
Total	= 15

Code	Name	No. of Hours	Marks		
First Year					
		T/L/P	W	O+P	Total
B111	Communicative English and Information & Communication Technology Paper I (English) : 60/32/0 Paper II (ICT) : 48/56/0	108/88/0	70	30	200
			70	30	
B112	Behavioral Science	112/0/48	100	50	150
B123	Anatomy & Physiology Paper I (Anatomy) : 96/36/0 Paper II (Physiology) : 96/36/0	192/72/0	100	50	300
B 134	Fundamentals of Nursing –1 Paper I (Fundamentals of Nursing) : 200/168/240 Paper II (Microbiology) : 72/32/0	272/200/240	100	100	350
	Total=	684/360/288	640	360	1000
Second Year					
B 231	Fundamentals of Nursing –2 Paper I (Fundamentals of Nursing & Health Assessment) :108/16/64 Paper II (Nutrition & Dietetics) : 72/16/32	180/32/96	100	50	300
			100	50	
B 232	Pediatric Nursing	96/16/144	100	100	200
B 233	Medical & Surgical Nursing-1 Paper I (Medical & Surgical Nursing) : 84/36/480 Paper II (Pharmacology) : 72/0/0	156/36/480	100	100	300
			70	30	
B 234	Orthopedic Nursing	72/24/144	100	100	200
	Total	504/108/864	570	430	1000
Third Year					
B 331	Medical & Surgical Nursing- 2 Paper I (Pathophysiology) :112/0/288 Paper II (Gerontological Nursing) : 64/0/96	176/0/384	100	50	300
			100	50	
B 332	Community Health Nursing	132/0/240	100	100	200
B 333	Psychiatric Nursing	80/0/192	100	100	200
B 334	Emergency & Critical Care Nursing	80/36/192	100	100	200
	Total	468/36/1008	500	400	900

Fourth Year					
B 431	Midwifery Paper I (Midwifery) :144/40/368 Paper II (Gynecological and Obstetrical Nursing) : 64/32/368	208/72/736	100 100	100 100	400
B 432	Nursing Education & Management Paper I (Nursing Education) : 72/0/96 Paper II (Leadership & Management) : 72/0/96	144/0/192	100 70	100 30	300
B 433	Research in Nursing	80/0/80	100	100	200
Total		432/72/1008	470	430	900
		2088/576/3168 Grand Total =5832	2180	1620	3800

* **Internship:** After completion of the program every student has to perform 06(six) months internship.

Allocated hours & marks against in each subject

1st Year

Code No	Name of the subjects	Theory	Lab.	Practice	Marks
B 111	Communicative English and Information & Communication Technology Paper I & II	108	88	0	200
B 112	Behavioral Science	112	0	48	150
B 123	Anatomy & Physiology Paper I & II	192	72	0	300
B 134	Fundamentals of Nursing – 1 Paper I & II	272	200	240	350
Total hours & marks =		684	360	288	1000

2nd year

Code No	Name of the subjects	Theory	Lab.	Practice	Marks
B 231	Fundamentals of Nursing – 2 Paper I & II	180	32	96	300
B 232	Pediatric Nursing	96	16	144	200
B 233	Medical & Surgical Nursing - 1 Paper I & II	156	36	480	300
B 234	Orthopedic Nursing	72	24	144	200
Total hours & marks =		504	108	864	1000

3rd year

Code No	Name of the subjects	Theory	Lab.	Practice	Marks
B 331	Medical & Surgical Nursing - 2 Paper-I & II	176	0	384	300
B 332	Community Health Nursing	132	0	240	200
B 333	Psychiatric Nursing	80	0	192	200
B 334	Emergency & Critical Care	80	36	192	200
Total hours & marks =		468	36	1008	900

4th year

Code No	Name of the subjects	Theory	Lab.	Practice	Marks
B 431	Midwifery Paper-I & II	208	72	736	400
B 432	Nursing Education & Management Paper -I & II	144	0	192	300
B 433	Research in Nursing Paper-I & II	80	0	80	200
Total hours & marks =		432	72	1008	900

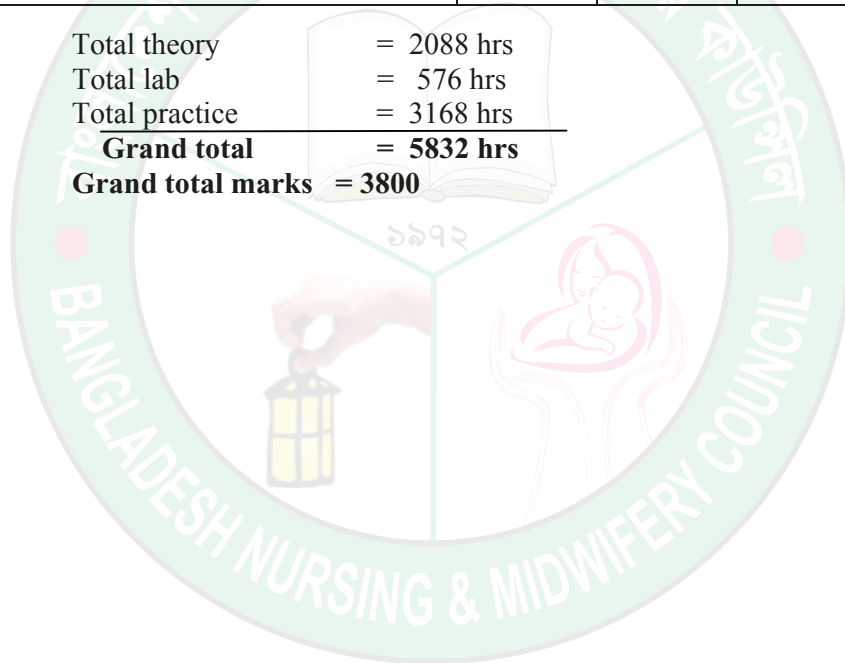
Total theory = 2088 hrs

Total lab = 576 hrs

Total practice = 3168 hrs

Grand total = 5832 hrs

Grand total marks = 3800



Course Description

1st year

B111: Communicative English and Information & Communication Technology 108/88/0

The subject is designed to develop communication skills in English of the learners in basic grammatical structures of English and basic semantics, basic reading and listening techniques for constructing informal writings; reading selected English literature; listening to selected English media; Use of expressions for easy communication in daily life such as exchanging information, greeting, shopping, application, past, present & future activities, liking & disliking etc; giving English oral presentations; and writing formal letters and essays.

Study and practice in reading and writing on related topics from nursing textbooks/journals/magazines & note taking, referencing; improvement of reading and writing abilities with emphasis on review of vocabularies, sentence structure, organization, development of oral presentation; developing writing skills- Business letters, application & CV; report writing, editing, proof reading, translation and professional writings- meeting minutes; improvement of speaking and listening abilities with establishing communication and making arguments.

The course is also designed for understanding of using computer and information technology and its applications in nursing field; application programs for Microsoft Word processing, Microsoft Excel for spreadsheets, Power Point Presentations, Networking and Communication through internet and World Wide Web applications

B112: Behavioral Science 112/0/48

The subject includes the indicative contents of Behavioral Science boundaries of Behavioral Science and social matters; relationship between social science and other sciences; the influence of social structure including political and economic aspects on health care system; culture embedding in society including values, beliefs, social change; motivation; basic concepts of Psychology and practices of human behaviors; common psychological theories and process of personality development.

B 123: Anatomy & Physiology 192/72/0

The subject includes the indicative contents of anatomical structure & physiological function of human body systems including musculoskeletal system, digestive system, respiratory system, cardiovascular system, urinary system, endocrine system, reproductive system, nervous system, integumentary system, hematologic system, sensory organs, and immune system.

B134: Fundamentals of Nursing – 1 272/200/240

Introduction and Conceptual Base of Nursing: nurses' roles and competencies required in promoting, maintaining, and restoring health; nursing process; theories and models of nursing; cultural & ethical aspects of nursing; nurses' ethical behaviors, nursing self-management, accountability & nursing care delivery within health care system;

Principles of care emphasizing on responding to basic needs for physical comfort and personal hygiene, safety, infection control, environmental comfort, positioning, transferring, activity and exercise, vital sign, first aid and bandaging.

Introduction to interpersonal communication in nursing; assertive communication; interpersonal and therapeutic relationship; key elements in building relationships; barriers to effective communication; communicating with other health care professionals; enhancing interpersonal communication skills.

Concept of Microbiology, parasitology, virology and pathology, and immunology, nature, reproduction, growth, common microorganisms and parasites in Bangladesh, prevention, universal precautions and immunization, control, sterilization, disinfection, specimen collections and examination.

2nd Year

B231: Fundamentals of Nursing – 2

180/32/96

Ethics in Nursing: Concepts of a nurse, code of ethics, ethical principles, legal issues in nursing & law, nursing regulations, bioethical issues; and professional standards; professional accountability.

Trends and issues in nursing: Trans-cultural nursing; the process of educating nurses; transition from student to professional; different nursing organizations; and position of nurses.

Health Assessment: Introduction to nursing process; health assessment; data and assessment strategies; practical skills and physical examination basic to biophysical, psychosocial, and spiritual assessment, and diagnostic tests and investigations, ethical concerns

Nursing Techniques & Procedures: Principles of care, basic need for nutrition & hydration, wound care; urinary and bowel elimination; administering medication, IV fluid and blood products; specimen collection; preparation of patient for different diagnostic procedures, admission & discharge, dying & death & basic nursing care.

Concept of Nutrition, classification of food, digestion, absorption, and utilization of carbohydrate, protein and fat, functions of nutrition on health; human needs of nutrients across life span; eating patterns of people with different age group and factors affecting nutritional deficits within Bangladesh culture; food hygiene, food preservation; nutritional assessment, nutrient deficiency diseases, prevention and treatments; therapeutic diet and nutritional support with modification based on individual differences, family and community context.

B232: Pediatric Nursing

96/16/144

Introduction to pediatric nursing; growth and basic concept & importance of early childhood development, domains & influencing factors of development; principles of care of sick children including infant, child and adolescent focusing on family centered care; prevalence of acute and chronic conditions & growth and development; child assessment; family assessment; child safety promotion; acute and chronic illness in common nursing situations including problems with malnutrition, congenital anomalies, convulsion, alterations in respiratory, cardiovascular, gastro-intestinal, urinary system, hematologic and lymphatic system, nervous system, endocrine and metabolic system, retarded children; cerebral palsy, autism special care of the newborn with congenital anomalies & abnormal condition at birth, review Pathophysiology including causes, sign-symptoms & treatment, health assessment, risk assessment, supportive/ emergency & restorative care of newborn with family counseling.

B233: Medical & Surgical Nursing - 1

156/36/480

Nature; acute and chronic illnesses related to medicine & surgery; nurses' roles and interventions in restoring health, preventing complications and recurrence, and maintaining health of adult clients with acute and chronic illness using client-centered and holistic care; medical & surgical interventions and anesthesia; nature of diseases and pathogenesis; alterations in infectious diseases, nosocomial infection, surgical wound, alteration in integumentary system, digestive and gastrointestinal system, cardiovascular system, endocrine & metabolic system; respiratory system; nervous system.

Introduction to pharmacology and basic principles of drug action: pharmacologic, pharmacokinetic, and pharmacodynamics; essential drugs; forms of drugs and preparation; action, adverse effect and its management of major drug classes including antibiotics and anti-parasitic, anti-inflammatory drugs, antipyretics and analgesics, drugs affecting body systems, i.e., gastro-biliary, urinary, cardiovascular, endocrine, and nervous system, anti-psychotic, anti-neoplastic and immunosuppressive agents.

B234: Orthopedic Nursing

72/24/144

Introduction to orthopedic nursing; concept of immobility; nurses' roles and interventions in preventing musculoskeletal injuries, maintaining and restoring health of orthopedic clients using client-centered and holistic care in the context of family and community; theory and practice in providing care to clients with fracture and dislocation, orthopedic surgery, autoimmune and inflammatory disorders, degenerative disorders, infections, neoplasm, and congenital and developmental disorders; immobilization and use of orthopedic devices; ethical and legal consideration in care of orthopedic clients.



3rd Year

B331: Medical & Surgical Nursing – 2

176/0/384

Nature; acute and chronic illnesses related to medicine & surgery; nurses' roles and interventions genitourinary system, male reproductive system, hematologic and lymphatic system, immune system including pathophysiology & forensic nursing; Oncology, Tumour and neoplasm; medical & surgical conditions of the eye and ENT.

Demographic trends in Bangladesh; concepts, theories related to aging; assessment and nursing strategies related to common health problems of elder population in Bangladesh; health promotion and illness prevention in the elderly; holistic care of the elderly with common and specific health problems; issues and trends in providing care for the elderly.

B332: Community Health Nursing

132/0/240

Concept of community health nursing; demographic trends, common community health problems; cultural diversification in community; community approach community organization; community participation; community empowerment; Nurses' roles in health promotion; fundamental theories of health beliefs model and illness prevention; immunization, early screening, environmental health; elements & principles of primary health care; approaches to PHC; Health care delivery system; nurses' roles & responsibility of a community health nurse; health education, concept related to family health nursing; family assessment; family counseling; care of family care givers; nursing care for special health concerns - women & child abuse, vulnerable groups such as disadvantaged people, women, children, elderly, disabled & handicapped; concept of disasters, mass casualty and its management, occupational health; hazards and related diseases, & nurses' role. Concept of Epidemiology, principles, occurrence and distribution of diseases; indicators of health, epidemic investigations, prevention and control of communicable and non-communicable diseases, population and health statistics.

B333: Psychiatric Nursing

80/0/192

Introduction to psychiatric & mental health nursing; bio-psychosocial theories of mental health and illness, determinants of mental illness; cultural and socioeconomic factors and psychotherapeutic modalities; Psychotheory, emotional crises, acute & chronic psychiatric illnesses within communities; drug abuse, ethical issues relevant to care of clients with psychiatric and mental health problems; public and private systems of care for mental health promotion, restoration, and rehabilitation in Bangladesh.

B334: Emergency and Critical Care Nursing

80/36/192

Introduction to emergency and critical care nursing; nurses' role in injury prevention; psychosocial, spiritual, and ethical concerns in care of clients under emergency and critical conditions; end-of-life care; theory and practice in providing care to clients, in the context of family and community, with emergency and critical conditions in dying cases.

4th Year

B431: Midwifery

208/72/736

Introduction to midwifery; roles and responsibility, ethics in midwifery; maternal and newborn health situations in Bangladesh; fertilization; growth and development of fetus; changes and impacts during pregnancy; mechanisms of labour; comprehensive and holistic care to pregnant women and their foetus, newborns and families from preconception, antenatal, labor to postnatal period; normal delivery, immediate care of the newborns & resuscitation, care of newborns in the first 28 days of life, early and exclusive breast feeding, concept of reproductive health, safe motherhood, ethical and legal issues relevant to the care of clients with reproductive health needs.

Gynecological and Obstetric: complicated pregnancy & child birth, comprehensive and holistic care to pregnant women having abnormal obstetric, labour to postnatal period; early detection of obstetric complications and conditions detrimental to health of pregnant women and their fetus, timely procurement of medical assistance and referral, and first line management for obstetric emergencies and life threatening situations; gynecological nursing, use of midwifery standards for quality management; ethical issues concerning the maternal and newborn health in Bangladesh.

B432: Nursing Education & Management

144/0/192

Concept and history of nursing education, understanding of educational philosophy, psychology, theories and principles of education, educational methodologies, teaching learning activities, evaluation of the courses and students, assessment tools for evaluating the teaching learning activities, the nature, principles and purposes of curriculum and curriculum development and evaluation.

Introduction to nursing management, leadership, administration, planning, discipline, organization, planning resources, financial management, staffing, delegation, coordinating, directing, Inventory management, conflict & its sources, management, time management, recording reporting & supervision, historical background of leaders in Bangladesh nursing profession.

B433: Research in Nursing

80/0/80

Introduction to research in nursing and concept of evidence based nursing, research process, research problems and constructing research objectives, questions and hypotheses, literature review, research methodology, research instruments, data analysis and interpretation, implications to nursing practice; statistics, annotated bibliography, and writing a research proposal to develop research in nursing.

Anex-I

Annexe-1: Master Plan for overall course structure Master Plan

1st year

		Term-1																									
Weeks	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	L	L	T	T	T	L	L	T	T	L	L	T	T	R	R	SL	TE	TE	B	B	B	
		Term-2																									
Weeks	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	T	T	L	L	L	CP	CP	CP	CP	CP	FV	T	T	T	R	R	SL	F	F	F	ex	ex	B	B	

T= theory, L= Laboratory, CP=Clinical Practice, FV= Field Visit, R= Review, SL= study leave, TE= Term Exam, , F EX= Final Exam, B= Break/Leave

2nd Year

Term-1		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	
Weeks		T	T	T	T	CP	CP	CP	CP	T	T	T	L	CP	CP	CP	CP	T	T	T	R	SL	TE	TE	B	B	B	B
Term-2		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	
Weeks		CP	CP	CP	CP	T	T	CP	CP	CP	CP	CP	L	L	FV	T	T	R	R	SL	F _{ex}	F _{ex}	F _{ex}	F _{ex}	B	B	B	B

T= theory, L= Laboratory, CP=Clinical Practice, FV= Field Visit, R= Review, SL= study leave, TE= Term Exam, F EX= Final Exam, B= Break/Leave

3rd Year

Term-1		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	
Weeks		T	T	T	CP	CP	CP	CP	CP	T	T	CP	CP	CP	CP	CP	CP	T	T	L	R	SL	TE	TE	B	B	B	B
Term-2		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	
Weeks		CP	CP	CP	CP	T	T	CP	CP	CP	CP	T	FV	FV	T	T	T	R	R	R	SL	F _{ex}	F _{ex}	F _{ex}	B	B	B	B

T= Theory, L= Laboratory, R= Review, SL= study leave, TE= Term Exam, CP=Clinical Practice, FV= Field Visit, F EX= Final Exam, B= Break/Leave

4thYear

Term-1																											
Weeks	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	CP	CP	CP	CP	CP	CP	CP	T	L	CP	CP	CP	CP	R	SL	TE	TE	TE	B	B	B
Term-2																											
Weeks	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	
	CP	CP	CP	CP	CP	CP	CP	CP	T	T	L	CP	CP	CP	CP	T	R	R	SL	SL	F _{ex}	F _{ex}	F _{ex}	F _{ex}	F _{ex}	B	B

T= Theory, L= Laboratory, CP=Clinical Practice, FV= Field Visit, R= Review, SL= Study Leave, TE= Term Exam, F EX= Final Exam, B=Break/Leave

Annex-II (Sample of Academic Transcript)

Logo

Issue No:

College Name
Academic Transcript
B. Sc. in Nursing (4 Year), Examination December 20

Name: Father's Name: Mother's Name:
 Student Registration: Session: Roll No. Medium of Instruction: **English**

Year	Course Code	Course Name	Paper	Hours			Grade	Attempt
				Theory	Lab	Practice		
First Year	B111	Communicative English and Information & Communication Technology	Paper-I: English	60	32	-	92	
	B112	Behavioral science	Paper-II: ICT	48	56	-	104	
	B123	Anatomy & physiology	Paper-I: Anatomy	96	36	-	132	
	B 134	Fundamentals of Nursing -1	Paper-II: Physiology	96	36	-	132	
Second Year	B 231	Fundamentals of Nursing -2	Paper-I: Fundamentals of Nursing & Health Assessment	200	168	240	608	
	B 232	Pediatric Nursing	Paper-II: Microbiology	72	32	-	104	
	B 233	Medical & Surgical Nursing-1	Paper-I: Fundamentals of Nursing & Health Assessment	108	16	64	188	
	B 232	Orthopedic Nursing	Paper-II: Nutrition & Dietetics	72	16	32	120	
				96	16	144	256	
				84	36	480	600	
				72	0	0	72	
				72	24	144	240	

Year	Course Code	Course Name	Paper	Hours			Grade	Attempt
				Theory	Lab	Practice		
Third Year	B 331	Medical & Surgical Nursing- 2	Paper-I: Pathophysiology	112	-	288	400	
			Paper-II: Gerontological Nursing	64	-	96	160	
	B 332	Community Health Nursing	-	-	240	372		
	B 333	Psychiatric Nursing	-	-	192	272		
Fourth Year	B 334	Emergency & Critical Care Nursing	-	36	192	308		
	B 431	Midwifery	Paper-I: Midwifery	144	40	368	552	
			Paper-II: Gynecological and Obstetrical Nursing	64	32	368	168	
	B 432	Nursing Education & Management	Paper I: Nursing Education	72	-	96	168	
			Paper II: Leadership & Management	72	-	96	168	
B 433	Research in Nursing	-	-	80	160			
Internship Six Months has been performed								

Grading Scale

Marks obtained (%)	Grade	Grade Point
80% - 100%	A+	4
75% - 79%	A	3.75
70% - 74%	A-	3.5
65% - 69%	B+	3.25
60% - 64%	B	3.00
Less than 60%	F	0.00

Prepared by:

Principal:

Compared by:

Annex-III

Contributors:

- Ms. Suriya Begum, Principal, Sher-e-Bangla Nursing College, Dhaka.
- Ms. Rashida Akhter, Deputy Registrar, BNMC.
- Dr. Md Mofiz Ullah, Lecturer, Khulna Nursing College, Khulna.
- Mr. Haridas Adhikary, Associate Professor, BSMMU
- Ms. Nasrin Khanam, Instructor, Dhaka Nursing College, Dhaka.
- Dr. Nilima Majid, Principal, Sylhet Women Nursing Institute, Sylhet.
- Ms Saleha Khatun, Vice-Principal, Grameen Caladonian College of Nursing, Mirpur, Dhaka

Reviewers:

- Dr. Md. Anwar Hossain Howlader, Joint Secretary (Medical Education), Health Education & Family Welfare Division, MOHFW
- Prof. Dr. Nasima Sultana, Dean, Faculty of Medicine, University of Dhaka
- Ms. Sabina Yeasmin, Deputy Secretary (Nursing Education), Health Education & Family Welfare Division, MOHFW
- Dr. Muhammad Yunus, Director, Medical Education and Health Manpower Development (ME & HMD), DGHS, Mohakhali, Dhaka
- Ms. Shuriya Begum, Registrar, BNMC
- Ms. Rashida Akhter, Deputy Registrar, BNMC.
- Dr. Md Mofiz Ullah, Professor, College of Nursing Mohakhali, Dhaka
- Mr. Haridas Adhikary, Associate Professor, BSMMU
- Ms. Dolly Maria Gonsalves, National Professional Officer-HRH, World Health Organization (WHO), Country Office, Bangladesh, Gulshan-I, Dhaka

Revised and updated by:

- Badrun Nessa, Additional Secretary(Medical Education), Medical Education & Family Welfare Division, MoHFW
- Manoj Kumar Roy, Joint Secretary(Nursing), Medical Education & Family Welfare Division
- Ms. Shuriya Begum, Registrar, BNMC.
- Ms. Rashida Akhter, Deputy Registrar, BNMC.
- Dr. Md Mofiz Ullah, Professor, College of Nursing, Mohakhali, Dhaka.
- Mr. Haridas Adhikary, Associate Professor, BSMMU.
- Ms. Jannatul Ferdoush, Assistant Professor, Green Life College of Nursing.

IT Assistance:

- Md. Murad Shikder, Assistant Programmer, Bangladesh Nursing and Midwifery Council

Official Assistance:

- Md. Abul Kalam, Account Officer, Bangladesh Nursing and Midwifery Council
- Md. Monjurul Karim, Admin Officer, Bangladesh Nursing and Midwifery Council
- Md. Jubaer Arafat, Steno-to Registrar, Bangladesh Nursing and Midwifery Council

Name of Stakeholders, MoHFWD, MoHFW (Not in according to Seniority):

1. Mr. Zahid Maleque MP, State Minister, Ministry of Health & Family Welfare.
2. Mr. G.M. Saleh Uddin. President, BNMC & Secretary, Medical Education & Family Welfare Division, MoHFW
3. Professor Dr. Md. Ismail Khan, Vice Chancellor, Chattagram Medical University.
4. Professor Kanak Kranti Barua, Vice Chancellor, Banga Bandhu Sheikh Mujib Medical University.
5. Mr. Subas Chandra Sarkar, Additional Secretary, Health Service Division, MoHFW.
6. Ms. Tandra Sikder, Directorate General, Directorate General of Nursing & Midwifery.
7. Ms. Badrunessa, Additional Secretary, Medical Education and Family Welfare Division, MoHFW.
8. Ms. Badrunnahar, Deputy Secretary, Medical Education and Family Welfare Division, MoHFW.
9. Dr. Mohammad Sharif, Director (MCHS), Representative of DGFP.
10. Ms. Shuriya Begum, Registrar, Bangladesh Nursing & Midwifery Council.
11. Ms. Jahera Khatun, Directorate (Education) DGNM.
12. Ms. Shirina Akter, Assistant Director (Administration) DGNM.
13. Ms. Saleha Khatun, Vice Principal, GCCN, Mirpur, Dhaka.
14. Ms. Hamima Umme Morsheda, Nursing Instructor Incharge, NI, Noagoan.
15. Ms. Jacinta Alimpia Gomez, Principal, DNC.
16. Ms. Halima Akhter, Nursing Instructor, Dhaka Nursing College & President, BMS.
17. Ms. Selina Chowdhury, Principal, Dhaka Community Nursing College.
18. Ms. Sefali Rani Sarkar, Vice Chancellor, Kumudini Nursing College.
19. Ms. Mebe D. Rozario, Chairman, Department of Graduate Nursing BSMMU.
20. LC. Zobaida Khanam, Chif Principal Matron, Director General of Military Health Services.
21. Ms. Ira Dibra, Principal, BIRDEM Nursing College & President, BNA.
22. Dr. Md. Musa Khan, Ex-Additional Director, Directorate General of Health Service, HRH Project.

List of Contributors (Not in according to Seniority):

1. Mr. Faiz Ahmed, Secretary, Medical Education & Family Welfare Division, MoHFW
2. Badrunessa, Additional Secretary, Medical Education and Family Welfare Division, MoHFW
3. Sabina Yeasmin, Deputy Secretary, Medical Education and Family Welfare Division, MoHFW
4. Dr. Md. Anwar Hossain Hawlader, Joint Secretary (Medical Education), Medical Education & Family Welfare Division, MoHFW
5. Professor Dr. Nasima Sultana, Dean, Medicine, Dhaka University
6. Md. Jasim Uddin, Deputy Secretary, HRM, HSD, MoHFW
7. Nusrat Jaben Banu, Deputy Secretary, Secodary & Higher Educational Division
8. Dr. Md. Jahangir Alam, Associate Professor Hepatology, Rajshahi Medical College
9. Dr. Mohammed Monowar-Ul-Haque, Associate Professor Urology Dept. Chattagram Medical College, Presentative: Dean. Chattagram University
10. Professor Ashim Ranjan Bashu, Dean, Dept. Graduate Nursing, Faculty of Nursing, BSMMU.
11. Ms. Nasima Parvin, Director, DGNM
12. Ms. Mariam Begum, Deputy Director, DGNM
13. Most. Shahinoor Begum, Assistant Director, DGNM
14. Ms. Sufia Khatun, Principal, Dhaka Nursing College

15. Ms. Jacinta Alimpia Gomez, Principal, College of Nursing, Mohakhali
16. Ms. Monizza Khatun, Principal, Rajshahi Nursing College
17. Ms. Shilpi Chakrabarty, Principal, Sylhet Nursing College, Sylhet
18. Ms. Maksuda Begum, Principal, Chattagram Nursing College
19. Ms. Maksuda Begum, Principa , Barishal Nursing College, Barishal
20. Ms. Saleha Khatun, Principal, Mymensingh Nursing College, Mymensingh
21. Ms. Khalida Begum, Principal, Rangpur Nursing College, Rangpur
22. Professor Mabel D Rozario, Chairman, Department Of Graduate Nursing BSMMU
23. Ms. Major Rehana Pervin, Nursing Instructor, Armed Forces Medical Institute, Dhaka.
24. Ms. Khairun Nahar Begum, Nursing Superintendent, Dhaka Medical College Hospital
25. Ms. Mahmuda Sultana Sheuli, Faculty Of Nursing Management, NIANER, Mughda, Dhaka
26. Ms. Dipali Rani Mallick, Deputy Director, NIANER, Mughda, Dhaka.
27. Ms. Taslima Begum, Principal, Sheikh Fozilatunnesa Mujib KPJ Nursing College, Gazipur
28. Prof. Md. Anisur Rahman Forazy, Principal, International Nursing College, Tongi, Gazipur
29. Maj. (Rtd) Dalim Begum, Principal, Islami Bank Nursing College, Rajshahi
30. Professor Dr. Gol Baden, Principal, North East Nursing College
31. Ms. Niru Shamsun Nahar, Principal, Grameen Caledonian College Of Nursing
32. Ms. Ira Dibra, Principal, BIRDEM Nursing College
33. Ms. Selina Chowdhury, Principal, Dhaka Community Nursing College
34. Ms. Dolly Maria Gonsuvas, Ex-Principal, Prime Bank Nursing College, Dhaka
35. Professor Tahatun Nahar, Principal, Holy Family Red Crescent Nursing College
36. Shuriya Begum, Registrar, Bangladesh Nursing & Midwifery Council
37. Arati Rani Das, Deputy Registrar, Bangladesh Nursing & Midwifery Council
38. Rashida Akhter, Deputy Registrar, Bangladesh Nursing & Midwifery Council
39. Professor Achir Yani S. Hamid, International Consultant of WHO, Country Office for Bangladesh
40. Ms. Rahima Jamal Akhter, EX-National Nursing Advisor, HRH Project, Dhaka
41. Md. Nuruzzaman, National Professional Officer (HRH), WHO, Country Office, Bangladesh
42. Mr. Joynul Islam, Executive Assistant- HRH, WHO
43. Ms. Trina Hasan, JICA CBNS, JICA Bangladesh
44. Ms. Pronita Raha, Midwifery Officer, UNFPA, Bangladesh
45. Md. Murad Shikder, Assistant Programmer, , Bangladesh Nursing & Midwifery Council
46. Md. Abul Kalam, Accounts Officer, Bangladesh Nursing & Midwifery Council
47. Md. Monjurul Karim, Admin Officer, Bangladesh Nursing & Midwifery Council
48. Mr. Jubaer Arafat, Steno to To Registrar, Bangladesh Nursing & Midwifery Council