

**RUFAIDA COLLEGE OF NURSING**

**JAMIA HAMDARD**

**POST BASIC B.SC NURSING**

Program Name: Bachelor of Science in Nursing (Post Basic B. Sc. Nursing).

Program Code: 0910003

Academic session of Introduction of the Program: Nov 2013

Department Name: Rufaida College of Nursing

School name: School of Nursing Sciences and Allied Health

**Page No 1: Content (Index)**

<b>S. No.</b>	<b>Particular</b>	<b>Page No.</b>
<b>1.</b>	Programme Name, Programme Code, Academic Session of Introduction of Prog., Department Name, School Name, Byelaws & Syllabus (As Attachment)	<b>1</b>
<b>2.</b>	Index	<b>1</b>
<b>3.</b>	Approval Dates	<b>2</b>
<b>4.</b>	Programme Outcomes	<b>3</b>
<b>5.</b>	Course Structure	<b>4</b>
<b>6.</b>	Table of Programme Details	<b>5-6</b>
<b>7.</b>	Rules & Regulations	<b>7-13</b>
<b>8.</b>	Course-wise Details	<b>14-80</b>

- **Approval Date of Board Of Studies (BOS) Meeting for the Present Syllabus:  
09/10/2009**
- **Approval Date & Number of Academic Council Meeting for the Present Syllabus:  
18.01.2010**

## **VISION AND MISSION STATEMENTS (RUFIDA COLLEGE OF NURSING)**

### **VISION**

- To create an institute of national and international repute in Nursing and Midwifery offering state of the art education entailing the finest skills combined with compassionate patient care.

### **MISSION**

- To provide quality nursing education and prepare compassionate and competent global nursing professionals capable of rendering highest level of quality patient care, who can make contribution towards education and research in the field of Nursing and Midwifery.

## **1. Program outcomes**

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

1. Assess health status, identify nursing needs, plan, implement and evaluate nursing care for patients / clients that contribute to health of individuals, families and communities.
2. Demonstrate competency in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioral sciences.
3. Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.
4. Demonstrate skills in communication and interpersonal relationship.
5. Demonstrate leadership qualities and decision-making abilities in various situations.
6. Demonstrate skills in teaching to individuals and groups in community health settings.
7. Demonstrate managerial skills in community health settings.
8. Practice ethical values in their personal and professional life.
9. Participate in research activities and utilize research findings in improving nursing practice.
10. Recognise the need for continued learning for their personal and professional development.

## 2. Course Structure

The course structure has been based on the guidelines given by the Indian Nursing Council. The distribution of hours in the classroom instruction and practical in the various subjects is given below.

S.No.	Subject	Hours Theory	Hours Practical
<b>1<sup>st</sup> year</b>			
1.	Nursing foundation	45	
2.	Nutrition and dietetics	30	15
3.	Biochemistry and biophysics	60	
4.	Psychology	60	15
5.	Maternal Nursing	60	240
6.	Child Health Nursing	60	240
7.	Microbiology	60	30
8.	Medical and Surgical Nursing	90	270
9.	English (qualifying)	60	
<b>Total</b>		<b>525</b>	<b>810</b>

Note: Hindi/local language as per the need of the institution.

S.No.	Subject	Hours Theory	Hours Practical
<b>2<sup>nd</sup> year</b>			
1.	Sociology	60	
2.	Community Health Nursing	60	240
3.	Mental Health Nursing	60	240
4.	Introduction to Nursing Education	60	75
5.	Introduction to Nursing Administration	60	180
6.	Introduction to Nursing Research and Statistics	45	120
<b>Total</b>		<b>345</b>	<b>855</b>

### 3. Programme Details in Tabular Form:

Theory for lecture/tutorial, 1 credit= 15 hours and for practical, 1 credit=30 hours

S.No	Paper Code	Subject	Duration	Theory/ Practical Hours	Int. Ass.	Ext. Ass.	Total Marks	L-P Hours\ Week	Credits
<b>I<sup>st</sup> Year</b>									
1.	BSN PB- 101	Nursing Foundation	2	45	15	35	50	1-0	3
2.	BSN PB- 102	Nutrition & Dietetics (Theory)	2	30	15	35	50	1-0	3
3.	BSN PB- 103	Biochemistry & Biophysics	3	60	25	75	100	2-0	4
4.	BSN PB- 104	Psychology	3	60	25	75	100	2-0	4
5.	BSN PB- 105	Microbiology	3	60	25	75	100	2-0	4
6.	BSN PB- 106	Maternal Nursing (Theory)	3	60	25	75	100	2-0	4
		Maternal Nursing (Practical)		240	50	50	100	0-6	8

7.	BSN PB- 107	Child Health Nursing (Theory)	3	60	25	75	100	2-0	4
		Child Health Nursing (Practical)		240	50	50	100	0-6	8
8.	BSN PB- 108	Medical & Surgical Nursing (Theory)	3	90	25	75	100	2-0	6
		Medical & Surgical Nursing (Practical)		270	50	50	100	0-8	9
9.	BSN PB- 109	English (Qualifying)*	3	60	25	75	100	2-0	4
<b>II<sup>nd</sup> Year</b>									
1.	BSN PB- 201	Sociology	3	60	25	75	100	1-0	
2.	BSN PB- 202	Community Health Nursing (Theory)	3	60	25	75	100	1-0	4
		Community Health Nursing (Practical)		240	50	50	100	0-5	8
3.	BSN PB- 203	Mental Health Nursing (Theory)	3	60	25	75	100	1-0	4

		Mental Health Nursing (Practical)		240	50	50	100	0-5	8
4.	BSN PB-204	Introduction to Nursing Education (Theory)	3	60	25	75	100	1-0	4
5.	BSN PB-205	Introduction to Nursing Administration (Theory)	3	60	25	75	100	1-0	4
6.	BSN PB-206	Introduction to Nursing Research & Statistics**	2	45	50	-	50	1-0	3

Note: \* Qualifying Examination

\*\*College Examination (not University Examination)

### **Tutorial**

**Post Basic B.Sc. Nursing First year:** Remaining 265 available hours will be used as tutorial for each subject towards counseling of students, remedial measures of weak students, extra classes and problem solving.

**Post Basic B.Sc. Nursing Second year:** Remaining 320 hours available hours will be used as tutorial for each subject towards counseling of students, remedial measures of weak students, extra classes and problem solving.

**Elective modules:** Students have to complete one online module / course. After completion of the module the marks will be included in the internal assessment of the respective years. Students can choose any one of the following module.

I. First year: Essential new born care or IMNCL.

II. Second year: SBA module or safe delivery app.

#### 4. Rules and regulations of the Program

##### i. Eligibility for admission:

- a) DGNM qualification from Nursing School/College recognized by the Indian Nursing Council
- b) Passed 10+2 or Senior Secondary/Intermediate from Central Board of Secondary Education, or any other equivalent examination recognized by Jamia Hamdard as equivalent thereto.
- c) Registered as RN(Registered Nurse) and RM(Registered Midwife) under State Nursing Council
- d) Qualified the admission test/interview conducted by Jamia Hamdard.
- e) Ability to communicate in English and Hindi.
- f) Sound health.

##### ii. Course structure

Rufaida College of Nursing follows the syllabus prescribed by Indian Nursing Council, which has been duly approved by Academic Council of Jamia Hamdard. The distribution of hours in class room instruction and supervised nursing practice in various subjects is given below. The course content is given in the syllabus.

##### iii. Duration

###### I<sup>st</sup> Year

Course duration	=	1 year
Weeks available per year	=	52 weeks
Vacations	=	4weeks
Gazette holidays	=	2 weeks
Examination (including preparatory)	=	4 weeks
Available weeks	=	42 weeks(Including 2week summer posting)
Hours per week	=	40 hours/week
Practical	=	30 hours/week
Theory	=	10 hours/week
Hours available in the academic year	=	1680 hours
Total hours required for theory, practical and summer posting	=	525 + 810 + 80 = 1415 Hours



## **II<sup>nd</sup> Year**

Course duration	=	1 year
Weeks available per year	=	52 weeks
Vacations	=	4 weeks
Gazette holidays	=	2 weeks
Examination (including preparatory)	=	4 weeks
Available weeks	=	42 weeks (Including 4 weeks summer posting)
Hours per week	=	40 hours/week
Practical	=	30 hours/week
Theory	=	10 hours/week
Hours available in the academic year	=	1680 hours
Total hours required for theory, practical and summer posting	=	$345 + 855 + 160 = 1360$ Hours

### **Note:**

1. A candidate must have 100% attendance in each of the practical area before award of degree.
2. A candidate has to pass in theory and practical exam separately in each of the paper.
3. If a candidate fails in either theory or practical paper, he/ she have to appear for both the papers (Theory and Practical).
4. Maximum number of attempts permitted for each paper is three including first attempt.
5. A candidate failing in more than two subjects will not be promoted to the next year.
6. Candidate shall not be admitted to the subsequent higher examination unless the candidate has passed the previous examination.
7. Maximum number of candidates for practical examination should not exceed 20 per day.
8. All practical examination will be held in respective clinical areas.
9. One internal and one external examiner should jointly conduct practical examination for each student.
10. An examiner should be lecturer and above in a college of nursing with M.Sc. (N) in concerned subject and minimum of three years of teaching experience. To be an examiner for Nursing Foundation course, faculty having M.Sc. (N) with any specialty shall be considered.

### **N.B.:**

1. Teaching of Anatomy, Physiology, Pharmacology and pathology will be integrated with clinical subjects.
2. A minimum of 80% attendance in theory and 80% in practical/clinical in each subject is essential for appearing in the examination.
3. 100% attendance in practical/clinical in each clinical area is essential before award of degree.
4. 50% of minimum marks in each theory and practical paper separately are required for passing.
5. **A candidate has to secure minimum of 50 % in qualifying subject for passing**

#### **IV. Internal Assessment**

- (a) For the purpose of internal assessment, there will be two written Sessional tests in each academic year, both in Theory and Practical.
- (b) Each test will be of 2 hours duration. These will be conducted by the respective teachers as per a notified schedule during the regular teaching slots. There will be no provision for special or additional internal assessment tests.
- (c) The answer books of the Sessional tests shall be shown to the students and taken back with their signatures on these. The Sessional test answer books shall be retained in the Department till the end of the academic term.
- (d) The students shall be required to maintain the observation visit reports/ other such assessments, including diary, for assessment by the teachers concerned in each case. Besides the class tests, marks will be given for day to day work and assignments in the following:
  - (a) Case presentation
  - (b) Nursing Care plan
  - (c) Case study
  - (d) Seminar
  - (e) Daily Diary
  - (f) Return demonstrations
  - (g) Monthly clinical evaluation
  - (h) Maintenance of Midwifery Case book
  - (i) Practice Practical exams.
- (e) A regular record of Theory and Practical class work and examinations conducted in an academic year shall be maintained by the teachers for each student.
- (f) Twenty five marks shall be awarded for Internal Assessment in theory papers. The candidates must secure a minimum of 50% marks in each paper in internal assessment otherwise the student shall not be allowed to take up the annual examination. Fifty marks shall be awarded in Practical subjects as given in the Scheme of Examination.
- (g) The final sessional marks awarded by the teacher on internal assessment will be submitted to the Principal/Dean, who shall forward the same to the Registrar within 10 days of the last Sessional test held. These would also be displayed on the Notice Board.

## **V. Attendance**

- (a) All students must attend every lecture and practical class. However, to account for late joining or other such contingencies, the attendance requirement for appearing in the examinations shall be a minimum of 80% of the classes actually held.
- (b) In order to maintain the attendance record of a particular course, a roll call will be taken by the teacher in every scheduled lecture and practical class. For the purposes of attendance, every scheduled practical class will count as one attendance unit, irrespective of the number of contact hours.
- (c) The teacher incharge will consolidate the attendance record for the lectures and practicals for each term. Attendance on account of participation in the prescribed functions of NCC, NSS, Inter-university sports and educational tours/field work shall be credited to the aggregate, provided the attendance record, duly countersigned by the officer incharge, is sent to the Dean of Faculty within two weeks of the function/activity, etc.
- (d) The statements of attendance of students shall be displayed on the Department Notice Board at the close of each term as given in the University Calendar. A copy of the same shall be sent to the Head of Department/ Office of Dean of Faculty for record. Notice displayed on Notice Board shall be deemed to be a proper notification, and no individual notice shall be sent to students.
- (e) If a student is found to be continuously absent from the classes without information for a period of 30 days, the teacher incharge shall report it to the Head of Department/ Dean for striking off the name of such a student from rolls. Such a student may, however, apply for readmission within 15 days of the notice of striking off the name. The request may be considered by the Dean for readmission. Such a student shall not be re-admitted after the prescribed period. The readmission shall be effected on payment of prescribed readmission fees.
- (f) A student with less than 80% attendance of the lectures and 80% practical separately in each subject/course in an academic year shall be detained from appearing in the Annual University examination. The Dean of Faculty concerned may consider application for the condonation of attendance upto 5% on account of sickness, provided the application for condonation of attendance, duly certified by a Registered Medical practitioner/Public Hospital had been submitted within 5 days from the recovery from illness. Condonation of attendance on account of any other extenuating circumstances may also be considered, provided the request is duly supported by documentary evidence.
- (g) A student detained on account of attendance will be re-admitted to the same class in the next academic year on payment of current fees except Enrolment fee, Identity card fee and Security deposits.

## **VI. Eligibility for admission to Examination**

A student seeking admission to the examination to be held at the end of each academic year must have pursued the course of study for one academic year, and must have completed the

prescribed attendance requirements. In case of practical papers, the candidate shall be required to pass separately in both sections (theory and practical). Further, a student must pass the 1<sup>st</sup> year examination within two academic years, and must complete all the requirements for the degree within the prescribed span period of four years.

## **VII. Annual and Supplementary Examinations**

- a) The Annual and Supplementary examinations shall be held as per schedule given in the Academic Calendar of Jamia Hamdard. The Supplementary examinations may normally be held after 30 days from the declaration of results of the Annual examinations.
- (b) A candidate who fails to appear at the annual examination or having appeared in the Annual examination fails to pass in any subject(s) as prescribed for the examination, may be allowed to appear in the remaining subjects at the Supplementary examination.
- (c) A candidate will be given a total number of three attempts, inclusive of the first attempt, to clear the papers in which he/she fails to qualify (irrespective of the number of such papers). In exceptionally hard cases, a student may be considered for grant of one last mercy chance.
- (d) Application for mercy chance with proper justification and a written undertaking given by the student will be examined by the Dean of the Faculty, and specific recommendations will be forwarded to the Registrar for getting approval of the competent authority. The undertaking would be to the effect that in case he/she does not clear the backlog in this final attempt, he/she will not have any further claim to continue the studies and that his/her name may be struck off the rolls.
- (e) The duration of annual examination in theory as well as practical papers will be 3-hours, unless specified otherwise.
- (f) Examiners shall examine students orally during the Practical examination and take cognizance of their performance when marking their papers.
- (g) A student shall not be declared to have passed the examination unless he/she secures at least 50% marks in each of the subjects separately in the theory as well as practical examinations, including sessional marks. Each theory paper or practical examination shall be construed as a separate paper. **The pass marks in subsidiary/qualifying subjects shall be 50%.**
- (h) Ten days vacation shall be given as preparatory holidays before the commencement of Annual examinations.
- (i) The candidates will retain the Internal Assessment of the previous examination, wherever applicable.
- (j) No candidate shall be awarded the Post basic degree unless: (i) she has passed in all the qualifying subjects as stated in Clause 7 - Scheme of examination; (ii) the total clinical experience prescribed has been completed before Final year.

## **VIII. Promotion to next class**

- (a) All students securing at least 50% marks in each of the subjects separately in the theory as well as practical examinations, including internal assessment, shall be promoted to the next year of

study. Candidate must pass in internal and external examination in each of the paper separately.

- (b) A student who fails in one or two subjects (separately in theory and practicals), and secures at least 50% marks in the aggregate, may be provisionally promoted to the next higher class. However, such a student shall have to clear these subjects in the year to which thus promoted provisionally.
- (c) A student who fails in more than two subjects will have to repeat the year of study and clear it within the prescribed span period.
- (d) A student who has been promoted as per clause (b) above and fails to clear the backlog in the year to which promoted provisionally, will be required to rejoin the year to which the carried over papers belonged, as a regular student. He/she will be registered only in those subjects in which he/she could not secure the minimum pass marks of the last examination. For instance, if a student was provisionally promoted to II year with a carry over of two papers of I year, and he does not succeed in clearing the carry over papers of I year alongwith the regular papers of II year, he will have to join I year again and register only in the backlog papers.
- (e) Promotion to the next higher class will be considered subject to rules relating to the maximum period of stay at the University, viz. passing the first year examination within two academic years, and successfully completing all the requirements of the programme of study within four years from admission.

#### **IX. Classification of Successful Candidates**

- (a) The result of the successful candidates shall be classified after declaration of results of the final year examination on the basis of the aggregate of all subjects, Theory and Practical, secured by the candidate in the examinations of all years, as indicated below:

Distinction:	75% and above
1st Division:	60% - 74.9%
2nd Division:	50% - 59.9%
Pass:	50% in each theory and practical separately

- (b) Candidates securing 75% or above marks in any subject(s) and have passed in all the subjects in a year in first attempt shall be declared to have obtained Distinction in that subject(s).
- (c) A student shall be eligible for award of Gold Medal subject to the following criteria:
  - i) He (she) has secured the highest marks in aggregate of examinations of all the years of the programme of study.
  - ii) He (she) has obtained a minimum of 80 per cent marks in the aggregate, as stated in (i) above.
  - iii) He (she) has passed all examinations, including qualifying courses, if any, in first attempt.

#### **X. Span Period**

Students must pass the Part I examination within two academic years, and must complete the full course of study within four years from their admission to the first year of the course.



Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs). Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low-level' mapping.

**Mapping with POs COs, where applicable.**

**Detailed Syllabus:**

<b>UNIT NO</b>	<b>COURSE CONTENTS</b>
--------------------	------------------------

<b>Unit I</b>	<b>Development of Nursing as a profession</b>
---------------	---

- \* Its philosophy
- \* Objectives and responsibilities of a graduate nurse
- \* Trends influencing nursing practice
- \* Expanded role of the nurse
- \* Development of nursing education in India and trends in nursing education
- \* Professional organizations, career Planning
- \* Code of ethics & Professional conduct for nurse.

<b>Unit II</b>	<b>Ethical, legal and other issues in nursing</b>
----------------	---

- \* Concepts of health and illness, effects on the person
- \* Stress and adaptation
- \* Health care concept and nursing care concept
- \* Developmental concept, needs, roles and problems of the development stages of individual –newborn, infant, toddler, pre-adolescent, adolescent, adulthood, middle-age, old age.

<b>Unit III</b>	<b>Theory of nursing practice</b>
---------------------	-----------------------------------

- \* Meta paradigm of nursing – characterized by four central concepts i.e. nurse, person (client/patient), health and environment.
-



---

Unit IV	<b>Nursing process.</b> * Assessment: Tools for assessment, methods, recording. * Planning: Techniques for planning care, types of care plans. * Implementation of care, recording.  * Evaluation: Tools for evaluation, process of evaluation.
------------	---

---

Unit V	<b>Quality assurance:</b> * nursing standards, nursing audit, total quality management. * Role of council and professional bodies in maintenance of standards.
--------	--

---

Unit VI	<b>Primary health care concept:</b> * Community oriented nursing * Holistic nursing, Primary nursing * Family oriented nursing concept, Problem oriented nursing * Progressive patient care * Team nursing
------------	--

**REFERENCES:**

1. Kozier B, Erb, G & Oliver, R : Fundamentals of Nursing ;4th ed. California, Addison Wesley., 1991
2. Perry, A.G. & Potter, P.A.: Basic nursing essentials of practice; 5th ed. St. Louis, Mosby, 2003
3. Potter, P.A. & Perry, A.G.: Fundamentals of nursing; 5th ed. Mosby Harcott(India) Pvt. Ltd.
4. Beverly Witley Dugas : Introduction to patient care ; 4th ed., Saunders, 2002
5. White, Lois: Foundations of nursing caring for the whole person; U.S.A.
6. Delmer Thompson Learning, Luckmann, J & Sorensen, K.C.: Basic nursing: a psychophysiologic approach; 3<sup>rd</sup> ed., W. B. Saunders, 2002
7. Park, J.E. :Text book of preventive and social medicine ; 17th ed., Banarasidas Bhanot, 2003

**Teaching-Learning Strategies in brief**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

**Assessment methods and weightages in brief (nursing foundation)**

There are two components of assessment: Internal assessment and End semester examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams and one improvement exam. The average marks of two Sessional exams are computed for internal assessment. Sessional exam is conducted for 40 marks and Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g., Class test, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks) are computed together for 15 marks. Annual exam is of 35 marks.

Total Marks are 50 for the subject (Internal Assessment: 15 Marks and End semester examination: 35 Marks) .

**Name of the Academic Program: POST BASIC. B.SC NURSING I YEAR**

**Course Code: BSN PB-102**

**Title of the Course: NUTRITION AND DIETETICS**

**L- 30 P: 15**

**Credits: 3**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

### **COURSE OUTCOMES (COs)**

After completing this Course, the students should be able to:

CO1. Explain the principles and practices of nutrition and dietetics.

CO2. Plan therapeutic diets in different settings.

CO3. Identify nutritional needs of different age groups and plan diet accordingly

CO4. Prepare meals using different methods utilizing cookery rules.

### **Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	3	1	3	1	1	1	3	3	1	3
<b>CO2</b>	3	2	3	2	1	3	2	2	3	2
<b>CO3</b>	3	3	3	3	2	3	3	3	2	3
<b>CO4</b>	3	1	1	1	1	1	1	2	2	2

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs). Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low'-level' mapping.

**Mapping with POs COs, where applicable.**

### **Detailed Syllabus**

UNIT I • Hours : 5hrs

Introduction to nutrition and dietetics. • Balanced diet, factors on which it depends. • Factors to be considered in planning. • Guidelines available for planning. • Food hygiene, preparation and preservation. • Review of nutrients – micro & macro.

UNIT II •Hours : 10hrs

Introduction to diet therapy. • Routine hospital diets. • Therapeutic diet under each unit i.e. Cardiovascular diseases, gastrointestinal diseases, renal disorders, endocrine and metabolic disorders, allergy, infections and fevers, pre and post operative stages, deficiency diseases and malnutrition, overweight and underweight.

Unit III

Hours :10hrs

• Infant and child nutrition. • Feeding of normal infants: factors to be considered in planning nutritional requirements. • Feeding of premature infants: factors to be considered in planning nutritional requirements. • Supplementary feeding of infants: Advantage and method of introduction. • Weaning, effects on mother and child. • Psychology of infant and child feeding. • Feeding the sick child. Diet in diseases of infancy and childhood. • Deficiency states – Malnutrition and under nutrition. • Feeding pre-school child: Nutritional needs, factors to be considered in planning diets. Problems in feeding. • School lunch programme: Advantage, need in India.

Unit IV •Hours : 15 hrs

Community nutrition: need for community nutrition programme. • Nutritional needs for special groups: Infant, child, adolescent, pregnant woman, lactating mother and old people. • Substitutes for non-vegetarian foods. • Selection of cheap and nutritious foods. Nutrition education needs and methods. • Methods of assessing nutritional status of individual / group / community. • Current nutritional problems and national programmes.

## **PRACTICUM**

**HOURS: 15hrs**

Methods of cooking and cookery rules. 1. Simple preparation of beverages, soups, cereals and pulses, eggs, vegetables, meat. 2. Menu plans. II. Preparation of supplementary food for infants. 1. Foods for toddlers. 2. Low cost nutritious dishes for vulnerable groups. 3. Dietary case study of patient on special diet planning of low cost dietary instructions for home adaptations. 4. Planning of therapeutic diets

### **Teaching-Learning Strategies in brief**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

### **Assessment methods and weightages in brief**

There are two components of assessment: Internal assessment and annual examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams. The average marks of two Sessional exams are computed for internal assessment.

Annual exam is of 35 marks. Total Marks are 50 for the subject (Internal Assessment: 15 Marks and Annual exam: 35 Marks).

**Name of the Academic Program: POST BASIC. B.SC NURSING I YEAR**

**Course Code: BSN PB-103**

**Title of the Course: BIOCHEMISTRY AND BIOPHYSICS**

**L-T-P: 60-0-0**

**Credits: 4**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

Placement: First Year

**COURSE OUTCOMES (COs)**

**(5 to 8 in case 3 or 4 credit courses)**

After completing this Course, the students should be able to .....

CO-1 Identify the basic principles of Biochemistry and Biophysics.

CO-2 Synthesize the knowledge of these principles in various Nursing situations.

..

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)  
and Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	3	2	1	1	1	1	1	1	1	1
<b>CO2</b>	3	2	1	1	1	1	1	1	1	1

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs).

Write '3' in the box for 'High-level 'mapping, 2 for 'Medium-level 'mapping, 1 for 'Low'-level' mapping.

**Mapping with POs COs, where applicable.**

## Detailed Syllabus:

Section A (Biochemistry)-Theory 30 hrs

Section B (Biophysics) -Theory 30 hrs

Section A (Biochemistry)

Unit 1: .....Introduction

- Importance of bio-chemistry in nursing.
- Study of cell and its various components.....

Unit 2: ...Water and Electrolytes: Water- Sources, property & function in human body.

Water and fluid balance.

Electrolytes of human body, function,sources

Unit 3: ...Enzymes

- -Mechanism of action
  - Factors affecting enzyme activity
- -Diagnostic application
- -Precaution for handling specimens for enzyme estimation.
- Digestion and absorption of carbohydrates, protein and fat.
- Various factors influencing the digestion and absorption, mal-absorption syndrome.....

Unit 4: Carbohydrate :-catabolism of carbohydrate for energy purpose.

- Mitochondrial oxidation and oxidation phosphorylation.
- Fate of glucose in body, storage of glucose in body, glycogenesis and glycogenolysis and neoglucogenesis, blood glucose and its regulation.
- Glucose tolerance test, hyperglycemia, hypoglycemia, glycemia.

Unit 5: Protein : amino acid ,hormones

- Essential amino acid. Biosynthesis of protein in the cell.
- Role of nucleic acid in protein synthesis.
- Nitrogenous constituents of urine, blood, their origin- urea cycle, uric acid formation, gout.
- Plasma protein and their function.

UNIT-6

- Fat: Biosynthesis of fat and storage of fat in the body.
- Role of liver in fat metabolism.
- Biological importance of important lipids and their function
- Cholesterol and lipoprotein
- -sources, occurrence and distribution
- -blood level and metabolism

### **Reference Books:**

- Manjula Shantaram. Applied Biochemistry for B.Sc. Nursing (2<sup>nd</sup> Edition), Jaypee Brothers Medical Publishers, Ansari Road Daryaganj.
- S.K. Sharma. Textbook of Biochemistry And Biophysics For Nurses, Jaypee Brothers Medical Publishers, Ansari Road Daryaganj.

### **Teaching-Learning Strategies in brief (4 to 5 sentences)**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning

### **Assessment methods and weightages in brief (4 to 5 sentences)**

Total Marks are 100 for the subject (Internal Assessment: 25 Marks and End semester examination: 75 Marks) .Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g. Quiz, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks).

### **Detailed Syllabus: BIOPHYSICS**

UNIT I • Introduction: Concepts of unit and measurements. • Fundamental and derived units. • Units of length, weight, mass, time.

UNIT II • Vector and scalar motion, speed, velocity and acceleration.

UNIT III • Gravity: Specific gravity, centre of gravity, principles of gravity. • Effect of gravitational forces on human body. • Application of principles of gravity in Nursing.

UNIT IV • Force, work, energy: their units of measurement. • Type and transformation of energy, forces of the body, static forces. • Principles of machines, friction and body mechanics. • Simple mechanics – lever and body mechanics, pulley and traction, incline plane, screw. • Application of these principles in Nursing.

UNIT V • Heat: Nature, measurement, transfer of heat. • Effects of heat on matter. • Relative humidity, specific heat. • Temperature scales. • Regulation of body temperature. • Use of heat for sterilization. • Application of these principles in Nursing.

UNIT VI • Light: Laws of reflection. • Focusing elements of the eye, defective vision and correction, use of lenses. • Relationship between energy, frequency and wavelength of light. • Biological effects of light. • Use of light in therapy. • Application of these principles in Nursing

UNIT VII • Pressures: Atmospheric pressure, hydrostatic pressure, osmotic pressure. • Measurements of pressures in the body • Arterial and venous blood pressures • Ocular pressure • Intracranial pressure • Application of these principles in Nursing.

UNIT VIII • Sound: Frequency, velocity and intensity. • Vocalization and hearing. • Use of ultrasound. Noise pollution and its prevention. • Application of these principles in Nursing.

UNIT IX • Electricity and electromagnetism: Nature of electricity, voltage, current, resistance and their units. • Flow of electricity in solids, electrolytes, gases and vacuum. • Electricity and human body. • ECG, EEG, EMG, ECT. • Pace makers and defibrillation. • Magnetism and electricity. • M.R.I. Scanning, C.A.T scan.

UNIT X • Atomic energy: Structure of atom, isotopes and isobars. • Radioactivity: Use of radioactive isotopes. • Radiation protection units and limits, instruments used for detection of ionizing radiation. X Rays.

UNIT XI • Principles of electronics: Common electronic equipments used in patient care.

**PRACTICUM** • Experiments and tests should be demonstrated wherever applicable

#### **REFERENCES :**

1. Flitter, H.H. An introduction to physics in nursing; 7th edition Delhi, All India Traveller Book seller. (Original American ed. Pub. by C.V.Mosby, St.Louis). 1989
2. Sackheim, S.M. Practical Physics for nurses; 2nd ed. Philadelphia, W.B. Saunders Co. 1962
3. Stearns, H.O. Fundamentals of physics and Applications; 2nd ed. New York, Macmillan Co. 1962
4. 4) T.N.A.I. Physics and Chemistry; Laboratory Manual for Student Nurses; 3rd ed. New Delhi, T.N.A.I. 1966
5. Waters, M. Elementary physics for Nurses; 6th ed London, Faber and fabor. 1958
6. Kigour, O.F.G. An Introduction to the physical aspects of Nursing Sciences; 3rd ed. London, William Heinemann Medical Books Ltd. 1978
7. Nordmark, M.t and Rahweder, A.W. Science Principles in Nursing; Philadelphia, J.B. Lippincott. 1959

#### **Teaching-Learning Strategies in brief**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

**Assessment methods and weightages in brief (Biochemistry & Biophysics)**



There are two components of assessment: Internal assessment and Annual examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams and one improvement exam. The average marks of two Sessional exams are computed for internal assessment. Sessional exam is conducted for 40 marks and are computed for 15 marks. Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g., Class test, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks). Annual examination is of 75 marks. Total Marks are 100 for the subject (Internal Assessment: 25 Marks and Annual examination: 75 Marks) .

**Name of the Academic Program: POST BASIC. B.SC NURSING I YEAR**

**Course Code:BSNPB104**

**Title of the Course: PSYCHOLOGY**

**L-T-P: 60-0-15**

**Credits: 4**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

**COURSE OUTCOMES(Cos)-**

CO1. Apply psychological principles while performing Nursing duties.

CO2. Distinguish the psychological processes during health and sickness.

CO3. Analyze own behaviour patterns.

CO4. Tabulate the psychological needs of the patients for planning Nursing care.

CO5. Participate in psychometric assessment of the client.

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)  
and Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	1	1	2	2	3	1	2	2	3	1
<b>CO2</b>	3	1	2	2	1	2	2	1	3	3
<b>CO3</b>	3	2	3	2	1	2	1	2	1	3
<b>CO4</b>	3	3	1	1	3	2	3	1	2	3
<b>CO5</b>	1	3	3	3	3	2	1	3	3	1

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs). Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low'-level' mapping.

Detailed syllabus-

**UNIT I**

- Introduction: Definition of psychology, scope and methods of psychology.
- Relationship with other subject.

**UNIT II**

- Sensation, Attention and Perception: Definitions.

- Sensory processes: Normal and abnormal.
- Attention and distraction: Contributory factors.
- Characteristics of perception, Perception: normal and abnormal.

### **UNIT III**

- Motivation: Definition and nature of motivation.
- Biological and social motives.
- Frustration and conflicts.
- Self- actualization.

### **UNIT IV**

- Emotions: Definition of emotions, Expression and perception.
- Emotions in sickness.

### **UNIT V**

- Personality: Definition, constituents of personality.
- Personality in sickness and Nursing.

### **UNIT VI**

- Psychological aspects of Nursing.
- Behaviour and sickness. Psychological needs of:
  - Child and adolescents
  - Adult
  - Aged
  - Attendants
  - Chronically ill individual.

### **UNIT VII**

- Individual differences.
- Significance of individual differences.

- Heredity and environment.
- Role of individual differences both in health and sickness.
- Implications of individual differences in Nursing.

### **Unit VIII**

- Intelligence and abilities: Definition.
- Intelligence and abilities during sickness.
- Measurement of intelligence and abilities.

### **UNIT IX**

- Learning: Definition, Conditions of learning.
- Laws of learning.
- Learning during health and sickness.

### **UNIT X**

- Memory and forgetting: Definition and nature of memory.
- Memory during health and sickness.
- Forgetting during health and sickness.

### **UNIT XI**

- Attitudes: Definition, development and modification.
- Role of attitudes in health and sickness.

### **UNIT XII**

- Concept of mental hygiene & mental health.
- Characteristics of a mentally healthy person.
- Defence mechanisms.

### **References-**

- R. Sreevani , psychology for nurses 3<sup>rd</sup> edition .  
 Rajesh G Konnur, Psychology for graduate Nurses, jaypee publiation.  
 Bhatia and Craigs , Elements of Psychology and Mental Hygiene, 3<sup>rd</sup> edition.

### **Teaching-Learning Strategies in brief**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

### **Assessment methods and weightages in brief**

There are two components of assessment: Internal assessment and annual examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams . The average marks of two Sessional exams are computed for internal assessment. Sessional exam is conducted for 40 marks and are computed for 25 marks. Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g., Quiz, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks). Annual examination is of 75 marks. Total Marks are 100 for the subject (Internal Assessment: 25 Marks and Annual examination: 75 Marks) .

**Name of the Academic Program: POST BASIC. B.SC NURSING (I YEAR)**

**Course Code: BSNPB-105**

**Title of the Course: ...MICROBIOLOGY**

**L-T-P 60 Hours [Theory Hours]...30 Hrs (practical)**

**Credits: 4**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

**COURSE OUTCOMES (COs)**

At the end of course the student will:

CO 1. Identify common disease producing micro- organisms.

CO 2. Explain the basic principles of microbiology and their significance in health and disease.

CO 3. **Demonstrate skill in handling specimens.**

CO 4. Explain various methods of disinfection and sterilization.

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)  
And Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	3	3	3	1	1	1	1	3	1
<b>CO2</b>	3	3	3	1	1	1	1	3	1
<b>CO3</b>	3	3	3	1	1	1	1	3	1
<b>CO4</b>	3	3	3	1	1	1	1	3	1
<b>CO5</b>	3	3	3	1	1	1	1	3	3

CO 5. Identify the role of the Nurse in hospital infection control system

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs).

Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low'-level' mapping.

## **Mapping with POs and COs where applicable.**

### **References-**

1. Sastry Apurba Shankar, Essentials of Medical Microbiology, 1<sup>st</sup> edition, New Delhi, Jaypee Medical Publishers Ltd.
2. Tortora Gerard J., Funke Berdell R., Case Christine L., Weber Derek, Bair Warner; Microbiology: An Introduction, Fourth Edition, Pearson Publications
3. Baveja CP, Textbook of Microbiology, 6<sup>th</sup> edition, Arya Publications
4. Arora D.R., Arora Brijbala, Textbook of Microbiology, 5<sup>th</sup> edition, 2017, CBS publishers.

### **Teaching-Learning Strategies in brief**

The teaching learning strategies, followed are chalk board, white board, LCD projector teaching, Learning through discussion among the peer group, classroom interaction, lab visits, quiz, presentations, Q & A session and reflective learning.

### **Assessment methods and weightages in brief**

There are two components of assessment: Internal assessment and Annual examination. Internal assessment consists of continuous mode and sessional exams. There is one Sessional exam and class tests. Sessional exam and class test is evaluated from 15 marks and Attendance (5marks), Academic activities (Average of any 3 activities e.g., assignment, test, and group discussion) (5 marks) and these are computed together for 25 marks. End semester exams is of 75 marks.

Total Marks are 100 for the subject (Internal Assessment: 25 Marks and Annual examination examination: 75 Marks).

**Name of the Academic Program: Post Basic B.Sc. Nursing**

**Course Code: BSN PB-106**

**Title of the Course: MATERNAL NURSING**

**Theory: 60 Hours    Practical: 240 Hours**

**L-T-P: 4-0-8                      Credits: 4**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

## **PROGRAMME OUTCOME**

On completion of B.Sc. Nursing (Post-Basic) degree programme the graduates will be able to:

PO.1 Assess health status, identify nursing needs, plan, implement and evaluate nursing care for patients/clients that contribute to health of individuals, families and communities.

PO.2 Demonstrate competency in techniques of nursing based on concepts and principles from selected areas of nursing, physical, biological and behavioral sciences.

PO.3 Participate as members of health team in the promotive, preventive, curative and restorative health care delivery system of the country.

PO.4 Demonstrate skills in communication an interpersonal relationship.

PO.5 Demonstrate leadership qualities and decision-making abilities in various situations.

PO.6 Demonstrate skills I teaching to individuals and groups in community health settings.

PO.7 Demonstrate managerial skills in community health settings.

PO.8 Practice ethical values in their personal and professional life.

PO.9 Participate in research activities and utilize research findings in improving nursing practice.

PO.10 Recognize the need for continued learning for their personal and professional development.



### **COURSE OUTCOMES(COs)-**

- CO 1. Describe the Physiology of pregnancy, labour and puerperium.
- CO 2. Manage normal pregnancy, labour and puerperium.
- CO 3. Explain the Physiology of lactation and advice on management of breast feeding.
- CO 4. **Be skilled in providing pre and post operative Nursing care in obstetric conditions.**
- CO 5. Identify and manage high risk pregnancy including appropriate referrals.
- CO 6. Propagate the concept and motivate acceptance of family planning methods.
- CO 7. Teach, guide and supervise auxiliary midwifery personnel.

### **Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	1	1	3	1	1	1	2	1	3	1
<b>CO2</b>	3	1	2	3	1	2	1	1	1	3
<b>CO3</b>	1	2	1	2	1	1	1	3	1	3
<b>CO4</b>	1	1	2	3	1	1	1	2	1	1
<b>CO5</b>	1	2	2	1	1	3	1	1	2	1
<b>CO6</b>	1	1	1	3	2	1	1	1	3	1
<b>CO7</b>	2	1	1	2	1	3	1	1	1	2

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs). Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low'-level' mapping.

**Detailed syllabus-**

UNIT I • Introduction and historical review. • Planned Parenthood. • Maternal morbidity and mortality rates. • Legislations related to maternity benefits, MTP acts, incentives for family planning etc.

UNIT II • Review of the Anatomy and Physiology of female reproductive system. • Female pelvis (normal and contracted). • Review of Foetal development.

UNIT III • Physiology and management of pregnancy, labour and puerperium. • Signs and symptoms and diagnosis of pregnancy. • Antenatal care. • Pregnant woman with HIV/ AIDS. • Management of common Gynaecological problems.

UNIT IV • The new born body. • Care of the baby at birth including resuscitation. • Essential newborn care: • Feeding • Jaundice and infection • Small & large for date babies. • Intensive care of the new born • Trauma and hemorrhage.

UNIT V • Management of abnormal pregnancy, labour and puerperium. • Abortion, ectopic pregnancy and vesicular mole. • Pregnancy induced hypertension, gestational diabetes, anaemia, heart disease. • Urinary infection, Antepartum haemorrhage. • Abnormal labour (malposition & malpresentation): • Uterine inertia • Disorders of puerperium • Management of engorged breast, cracked nipples, breast abscess and mastitis • Puerperal sepsis • Post partum haemorrhage • Inversion and prolapsed of uterus, obstetrical emergencies • Obstetrical operation i.e. forceps, vacuum, episiotomy, caesarean section.

UNIT VI • Drugs in obstetrics. • Effects of drugs during pregnancy, labour and puerperium on mother & baby.

UNIT VII • National Welfare Programmes for Women. • National Family Welfare Programme. • Infertile Family. • Problems associated with unwanted pregnancy • Unwed mothers.

## **PRACTICUM**

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

2. Practices following Nursing procedures a. Antenatal & Post natal examination, per vaginal exam. b. Conduct normal delivery, stitching of episiotomy, (for male candidate minimum conduct of 5 deliveries) c. Motivation of family for adopting family planning methods. d. Motivate family for Planned Parenthood. e. Assist in various diagnostic and therapeutic procedures including IUD insertion and removal.

## References-

- Jacob Annamma; A Comprehensive Textbook Of Midwifery and Gynecological Nursing;edition-3<sup>rd</sup> 2012;jaypee publisher; Pp- 614-615.
- Bobak, Lowdermilk, Jensen,Maternity Nursing (4th Edition), Mosby, 1983, pp 123-167.
- Shirish S Sheth, Essential of Obstetrics (1stEdition), Jaypee Brothers Medical Publishers, New Delhi, 2004, pp 102 - 107.
- Dutta D.C (2004), Textbook of Obstetrics (sixth edition), New Central Book Agency (P) LTD, Calcutta, Pp136-142,442.

## Teaching-Learning Strategies in brief

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

## Assessment methods and weightages in brief

There are two components of assessment: Internal assessment and End semester examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams . The average marks of two Sessional exams are computed for internal assessment. Sessional exam is conducted for 40 marks and are computed for 25 marks. Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g., Quiz, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks). Annual examination is of 75 marks. Total Marks are 100 for the subject (Internal Assessment: 25 Marks and Annual examination examination: 75 Marks) .

**Name of the Academic Program: Post Basic B.Sc. Nursing**

**Course Code: BSN PB-107**

**Title of the Course: CHILD HEALTH NURSING**

**COURSE OUTCOMES (COs)**

After completing this Course, the students should be able to:

CO-1: Explain the modern concept of child care and the principles of Paediatric Nursing.

CO-2: Describe the normal growth and development of children at different ages.

CO-3: Manage sick as well as healthy neonates and children.

CO-4: Identity various aspects of preventive Paediatric Nursing and apply them in providing Nursing care to children in hospital and community.

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	2	1	1	2	1	2	2
CO2	2	3	2	1	1	1	1	1	1	1
CO3	3	2	3	1	1	1	1	1	1	1
CO4	3	3	2	2	1	3	1	1	1	1

**COURSEOUTLINE**

**CHILD HEALTH NURSING**

**COURSE CONTENT**

**UNIT I**

- Introduction.
- Modern concept of child care.
- Internationally accepted rights of the child.

- National policy and legislations in relation to child health and welfare
- National programmes related to child health and welfare.
- Changing trends in hospital care, preventive, promotive and curative aspects of child health.
- Child morbidity and mortality rates.
- Differences between an adult and child.
- Hospital environment for a sick child.
- The role of a Paediatric Nurse in caring for a hospitalized child.
- Principles of Pre and Post operative care of infants and children.
- Paediatric Nursing procedures.

## **UNIT II**

- The healthy child.
- Growth and development from birth to adolescence.
- The needs of normal children through the stages of development and parental guidance.
- Nutritional needs of children & infants breast- feeding, supplementary/ artificial feeding and weaning.
- Accidents, causes and prevention.
- Value of play selection of play material.
- Preventive immunization.

## **UNIT III**

- Nursing care of a neonate.
- Nursing care of a normal newborn.
- Neonatal resuscitation.
- Nursing management of a low birth weight baby.

- Nursing management of common neonatal disorders.
- Organization of neonatal unit. Preventive of infections in the nursery.

#### **UNIT IV**

- Nursing management in common childhood diseases.
- Nutritional deficiency disorders.
- Respiratory disorders and infections.
- Gastrointestinal infections, infestations and congenital disorders.
- Cardio vascular problem-congenital defects and rheumatic fever.
- Genito-urinary disorder – Nephrotic syndrome, Wilms'tumor, infection and congenital disorders.
- Neurological infections and disorders- convulsions, epilepsy, meningitis, hydrocephalus, spinabifida.
- Hematological disorders – Anemias, Thalassemia, ITP, Leukemia, hemophilia.
- Endocrine disorders – Juvenile Diabetes Mellitus.
- Orthopedic disorders – club foot, hip dislocation and fracture.
- Disorders of skin eye and ears.
- Common Communicable Diseases in children, their identification, Nursing management in hospital and home and prevention.
- Paediatric emergencies – poisoning, foreign bodies, haemorrhage, burns and drowning.

#### **UNIT V**

- Management of behavioural disorders in children.
- Management of challenged children:
  - Mentally challenged
  - Physically challenged

- Socially challenged.

## Theory

### Teaching-Learning Strategies :

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer

group, classroom interaction, quiz, presentations, Q & A; session. There are two components of assessment: Internal assessment and End semester examination. Internal assessment consists of continuous mode and sessional exams. Attendance and academic activities are computed for internal assessment. Sessional exam is conducted for 40 marks. Continuous mode evaluation comprising of Attendance, Academic activities (e.g., Quiz, assignment, class test, group discussion and seminar)). End semester exams is of 75 marks. Total Marks are 100 for the subject (Internal Assessment: 25 Marks and End semester examination: 75Marks) .

## Practical

### Teaching- Learning Strategies

The teaching learning strategies followed are learning by doing.

For practical, the internal practical evaluation, a practice practical exam, Continuous mode evaluation, Attendance, Practical Records, Regular viva voce, etc. and clinical assignments ( health talk, case studies, case presentations, drug study, reports etc ) are included. End semester exams is of 100 marks. Total Marks are 200 for the subject (Internal Assessment: 100Marks and End Semester Examination: 100 Marks).

### Assessment Criteria

Theory	Internal Assessment: 25 Marks Final examination: 75Marks Total 100 marks
Practical	Internal Assessment: 50 Marks Final Examination: 50 Marks Total 100 marks

**Reference Books:**

- A. Parthasarathy, IAP Textbook of Pediatrics, 5<sup>th</sup> edition.
- Parul Datta, Pediatric Nursing, 2<sup>nd</sup> edition, 2009, Jaypee brothers medical publications, New Delhi.
- Marlow Text book of pediatric Nursing, 6<sup>th</sup> edition.
- Marilyn J. Hockenberry, Wong's Nursing Care of Infants and Children - Binder Ready, 11th Edition



**Course Code: BSN PB 108**

**Title of the Course: MEDICAL SURGICAL NURSING**

**L- 90 hours -P 270 hours**

**Credits: 15 (6+9=15)**

**COURSE OUTCOMES (COs)**

After completing this Course, the students should be able to:

CO1. Explain relevant Anatomy and Physiology of various systems of the body.

CO2. Explain pathophysiology of various disorders.

CO3. Explain the actions, side effects and nursing implications in administering drugs for various disorders.

CO4. Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.

CO5. Develop skill in giving comprehensive nursing care to patients following the steps of nursing process.

CO6. Assist the patients and their families in identifying and meeting their own health Needs.

CO7. Appreciate the role of the nurse in the medical surgical health team.

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	1	3	1	1	1	1	1	2	1	1
<b>CO2</b>	1	3	2	1	1	1	1	1	1	3
<b>CO3</b>	1	1	1	1	1	2	1	1	1	1
<b>CO4</b>	1	2	1	1	1	1	1	1	3	1
<b>CO5</b>	3	1	1	1	1	3	1	1	1	1
<b>CO6</b>	3	1	3	1	1	1	1	2	1	1
<b>CO7</b>	1	1	1	1	3	1	2	1	1	2

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs).

Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low'-level' mapping.

**Detailed Syllabus:**

**Unit 1:**\* Introduction to medical surgical nursing. \* Review of concepts of comprehensive nursing care in medical surgical conditions. \* Nurse, patient and his/her family. \* Functions of nurse in the outpatient department. \* Intensive care unit.

**Unit 2:**\* Nursing management of patient with specific problems. \* Fluid and electrolyte imbalance. \* Dyspnea and cough, respiratory obstruction \* Fever \* Shock \* Unconsciousness \* Pain Acute illness \* Incontinence

**Unit 3:**Nursing management of patient with neurological and neurosurgical conditions. Review of anatomy and physiology of the nervous system. Pathophysiology, diagnostic procedures and management of: \* Cerebrovascular accident. \* Cranial, spinal and peripheral neuropathies. \* Head-ache and intractable pain \* Epilepsy \* Infectious and inflammatory diseases and trauma of the nervous system. \* Common disorders of the system. \* Recent advances in diagnostic and treatment modalities. \* Drugs used in these disorders. \* Tumors of brain and spinal cord, congenital malformations, degenerative diseases.

**Unit 4:**Nursing management of patient with cardiovascular problems. Review of relevant anatomy and physiology of cardio vascular system. Pathophysiology, diagnostic procedures and management of \* Ischemic heart diseases. \* Cardiac arrhythmias. \* Congestive heart failure. \* Rheumatic and other valvular heart diseases. \* Endocarditis, cardiomyopathies, congenital heart, diseases, hypertension, heart block. \* Cardiac emergencies: cardiac arrest, acute pulmonary oedema, cardiac temponade, cardiogenic shock, aneurysms and peripherovascular disorders, recent advancement in cardiology.

**Unit 5:**Nursing management of patient with respiratory problems. Review of anatomy and physiology of respiratory system, pathophysiology, diagnostic procedures and management of upper respiratory tract infections. \* Bronchitis \* Asthma \* Emphysema, empyema, Atelectasis, COPD \* Bronchiectasis \* Pneumonia \* Pulmonary tuberculosis \* Lung abscess \* Pleural effusion \* Tumours and Cysts \* Chest injuries \* Respiratory arrest and insufficiency \* Pulmonary embolism \* Drugs used in the management of these patients. \* Special respiratory therapies.

**Unit 6:**Nursing management of patient with genitor-urinary problems. Review of anatomy and physiology of the genitor-urinary system \* Nephritis \* Renal Calculus \* Acute renal failure \* Chronic renal failure \* End stage renal disease Special procedures, dialysis, renal transplant Drugs used in management of these patients Congenital disorders, urinary infections,Benign prostate hypertrophy.

**Unit 7:**Nursing management of patients with problems of the digestive systems. Review of anatomy and physiology of gastrointestinal system and accessory organs. Pathophysiology, diagnostic procedures and management of \* G.I.Bleeding \* Peptic ulcer \* Infections \* Acute abdomen \* Colitis, diarrhea, dysentery and mal-absorption syndrome. \* Cholecystitis \* Hepatitis, hepatic coma and cirrhosis of liver. \* Portal hypertension \* Pancreatitits \* Tumors, hernias, fistulas, fissures, hemorrhoids. Drugs used in the management of these patients.

**Unit 8:**Nursing management of patients with endocrine problems Review of anatomy and physiology and patho-physiology of patients with \* Thyroid disorders \* Diabetes mellitus \*

Diabetes insipidus \* Adrenal tumour \* Pituitary disorders \* Diagnostic procedures Nursing management of patient with above problems. Drugs used in endocrine problems.

**Unit 9:** Nursing management of patients with musculoskeletal problems. Review of anatomy and physiology and pathophysiology \* Arthritis, osteomyelitis, bursitis, \* Fractures, dislocation and trauma \* Prolapsed disc \* Osteomalacia and osteoporosis \* Tumor \* Amputation Diagnostic procedures Nursing management of patients with above problems. Prosthesis and rehabilitation. Transplant and replacement surgeries.

**Unit 10:** \* Nursing management of patients with disorders of female reproductive tract. \* Disorder of menstruation \* Infections of the genital tract \* Benign and malignant tumors of the genital tract \* R.V.F., V.V.F \* Climacteric changes and associated problems.

**Unit 11:** \* Nursing management of patients with oncological disorders. \* Types of neoplasms and related pathophysiology \* Diagnostic procedures \* Modalities of treatment and nurse's role \* Special therapies – Chemotherapy and radiotherapy \* Preventive measures, other therapies.

**Unit 12:** \* Nursing management of patient with burns. \* Nursing management of patient with reconstructive surgeries.

**Unit 13:** Nursing management of patients with common communicable diseases and STD'S Nursing management of patient with immunological disorders including HIV/AIDS.

**Unit 14:** Nursing management of patients with diseases of eye, ear, nose, throat and skin.

**Unit 15:** Nursing management of patients with blood disorders Review of anatomy and physiology of blood and blood products. Patho-physiology, diagnostic procedures and management of blood disorders \* Anemia \* Leukemia \* Bleeding disorders \* Hemophilia \* Purpura etc. Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion, reaction, records for blood transfusion. Management and counseling of blood donors, phlebotomy procedure, and post donation management. Blood bank functioning and hospital transfusion committee Bio-safety and waste management in relation to blood transfusion.

**Unit 16:** \* Nursing in emergencies. \* Cardiac emergencies \* Trauma \* Poisoning \* Crisis management: Thyroid crisis, Hypertensive crisis, adrenal crisis.

**Reference Books:**

1. Long Phipps. Casseyer. Medical Surgical Nursing. A Nursing process approach. Pub. Mosby co. 1993
2. Lewis, Collier, Heitemper. Medical Surgical Assessment & management of clinical problems.
3. Brunner & Suddharth. Medical Surgical Nursing Pub. J.B. Lippincott co.
4. Luckmann & Sorensen. Medical Surgical Nursing A pathophysiological approach. Pub. W.B. Saunders co.
5. Joyce M. Black, E.M. Jacobs; Medical, Surgical Nursing, Clinical Management for continuity of care; 5th ed.; 1997; by W.B. Saunders company. (part I&II).

**Teaching-Learning Strategies in brief (4 to 5 sentences)**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

**Assessment methods and weightages in brief (4 to 5 sentences)**

There are two components of assessment: Internal assessment and End semester examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams and one improvement exam. The average marks of two Sessional exams are computed for internal assessment. Sessional exam is conducted for 40 marks and are computed for 15 marks. Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g., Class test, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks). End semester exams is of 75 marks.

Total Marks are 100 for the subject (Internal Assessment: 25 Marks and End semester examination: 75 Marks).

**Course Code:** BSN PB-109

**Title of the Course:** ENGLISH

**L-T-P: 60-0-0, Credits:** 4

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

**COURSE OUTCOMES (COs)**

**(5 to 8 in case 3 or 4 credit courses)**

After completing this Course, the students should be able to .....

CO-1 to speak and write grammatically correct English.

CO-2 effectively read and understand the English language

CO-3 skilfully write report.

..

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)  
and Program Specific Outcomes (PSOs)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	1	2	3	1	2	1	1	2	2
CO2	3	1	2	3	1	2	1	1	2	2
CO3	3	1	2	2	1	1	1	1	2	1

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs).

Write '3' in the box for 'High-level'mapping, 2 for 'Medium-level'mapping, 1 for 'Low'-level'mapping.

**Mapping with PSOs, where applicable.**

**Detailed Syllabus:**

UNIT I • Remedial study of Grammar. • Review of grammar, vocabulary and effective use of dictionary. • Prepare task oriented seminars. • Symposia and panel discussion.

UNIT II • The ability to understand selected passage and express meaning in one's own words. • Reading and comprehension of the prescribed books.

UNIT III • The study of various forms of composition: • Note taking • Diary • Nurse notes, Anecdotal records • Writing of summary • Nurses' reports on health problems. The student will submit one sample of each item from his/her own practical experience.

UNIT IV • Verbal communication. • Oral reports. • Summarizing of the discussion. • Debate. • Listening comprehension- film, cassette and radio.

PRACTICUM 1. The clinical experience in the wards and bed side nursing will provide opportunity for students to fulfill the objectives of learning language. 2. Assignment on writing and conversation through participation in Discussion, Debates, Seminars and Symposia. The students will gain further skill in task oriented communication

**Reference Books:**

1. Shama Lohumi. Rakesh Lohumi. English for Nurses. 2<sup>nd</sup> ed. Elsevier publication. 2015
2. Liza Sharma. English 4 Nurses For BSc (N) And BSc (N) Post Basic. CBS publisher and distributor. Delhi 2021
3. Liza Sharma. Communicative English 4 Nurses, 3<sup>rd</sup> ed, ed CBS publisher and distributor. Delhi 2022

**Teaching-Learning Strategies in brief (4 to 5 sentences)**

Primarily Lecture cum discussion. Small group discussions. Role play interview technique etc

**Assessment methods and weightages in brief (4 to 5 sentences)**

Its a quaifying exam. It involves two sessional exams and final university exam. A total of 25 internal and 75 external examination marks is allotted. Internal marks is given based upon performance of the student in class tests, assignments, quiz and sessional examinations.

**Name of the Academic Program: Post Basic B.Sc. Nursing**

**Course Code: BSN PB-201**

**Title of the Course: SOCIOLOGY**

**L-T-P: 4-0-0**

**Credits: 4**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

Theory Hours = 60

**COURSE OUTCOMES(COs)-**

1. Describe Sociological concepts that are applicable to Nursing.
2. Determine role of Sociology in Nursing as related to social institutions in India.
3. Develop positive attitudes towards individual, family and community.

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)  
and Program Specific Outcomes (PSOs)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	1		3			1	2		3	1
CO2	3	1	2	3	1	2		1		3
CO3	1	2		2			1	3	1	3

**COURSE CONTENTS**

**UNIT I** • Introduction. • Importance of study of Sociology in Nursing, relationship of Anthropology, Sociology, etc.

**UNIT II** • Individual and the society. • Socialization. • Interdependence of the individual and society. • Personal disorganization.

**UNIT III** • Culture. • Nature of culture. • Evolution of culture. • Diversity and uniformity of culture.

**UNIT IV** • Social organization. • Social groups, Crowds and Public groups, Nations, Race. • Social Institutions: Family, Marriage, Education, Religion, Arts, Economic organization, Political organization. • The Urban & Rural community in India: Ecology, characteristics of the village, characteristics of the town and city. • Social stratification: Class and Caste.

**UNIT V** • Social Process. • Process of Social Interaction: Competition, Conflict- war, Cooperation, Accommodation and Assimilation.

**UNIT VI • Social Change. • Nature and process of Social Change: Factors influencing cultural change. • Cultural Lag.**

**UNIT VII • Social Problems. • Social disorganization control & planning: Poverty, Population Housing, Illiteracy, Food supplies, growth of urbanization, Prostitution, Minority groups, rights of woman & children, child labour, child abuse delinquency and crime, substance abuse.**

**References-**

1. David, H. (1968). *Social Psychology*, Harper and Row, New York.
2. Davis, L. E., Galinsky, M.J. and Schopler, J. H. (1995). RAP : A framework for leading multiracial groups, *Social Work*, 40 (2), 155-165.
3. Dawson and Gettys, *Introduction to Sociology*.
4. Deutsch, M. and Gerard, H. (1955). A study on normative and informational social influence upon individual judgement. *Journal of Abnormal and Social Psychology*, 51, 629-636.
5. Dollard, J. (1939). *Frustration and Aggression*, Yale University Press. Eldredge and Merrill, *Culture and Society*, p. 483.
6. Gillin and Gillin, *Cultural Sociology*, p. 488.
7. Gish, N.P., *Fundamentals of Sociology*, p. 63. Green Arnold, *Sociology*, p. 71. Green, A.W., *Sociology*, (5<sup>th</sup> edition) p. 60.
8. Hopps, J.G. and Pinderhughes, E.B. (1999). *Group work with overwhelmed clients*, New York : Free Press.

**Teaching-Learning Strategies in brief**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

**Assessment methods and weightages in brief**

There are two components of assessment: Internal assessment and Annual examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams . Sessional exam is conducted for 40 marks and are computed for 25 marks. Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g., Quiz, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks). End semester exams is of 75 marks. Total Marks are 100 for the subject (Internal Assessment: 25 Marks and End semester examination: 75 Marks) .

**Course Design**

**Name of the Academic Program Post Basic B.Sc Nursing**



**Course Code: BSNPB-202, Title of the Course: .....Community Health Nursing(Theory, practical)**

**L-T-P 60 Hours [Theory Hours]...240 Hrs (practical).....**

**Credits.....4 credits (60 hours)+8 hours( 240 hrs ).....**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

**COURSE OUTCOMES (COs)**

After completing this Course, the students should be able to

CO. At the end of the course, the student will:

CO 1. Explain the concepts of various factors contributing to health of individual, family and Community.

CO 2. Identify the role of a Community Health Nurse.

CO 3. Describe National Health Care delivery system.

CO 4. Describe Epidemiological methods and principles of prevention and control of illness in the community.

CO 5. Identify the role of personnel working in the Community Health setting.

CO 6. Plan the work of Community Health Nursing, and supervise and train health workers.

..

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)**

### and Program Specific Outcomes (PSOs)

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs).

Write '3' in the box for 'High-level'mapping, 2 for 'Medium-level'mapping, 1 for 'Low'-level'mapping.

	PO1	PO2	PO3	PO4	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	3	3	3	3	3	3	3	3	3
<b>CO2</b>	2	3	3	3	3	3	3	3	3
<b>CO3</b>	3	1	3	1	1	3	1	3	1
<b>CO4</b>	3	3	3	2	3	2	3	3	3
<b>CO5</b>	2	3	3	2	2	3	3	2	2
<b>CO6</b>	3	1	3	1	3	1	3	3	1

**Mapping with PSOs, where applicable.**

### COMMUNITY HEALTH NURSING

Second year

Time Allotted Theory -60 hrs

Practical-240 hrs

**COURSE DESCRIPTION:** The course enables the students to understand the national health care delivery system and to participate in the delivery of Community Health Nursing.

**OBJECTIVES** At the end of the course, the student will: 1. Explain the concepts of various factors contributing to health of individual, family and Community. 2. Identify the role of a Community Health Nurse. 3. Describe National Health Care delivery system. 4. Describe Epidemiological methods and principles of prevention and control of illness in the community. 5. Identify the role of personnel working in the Community Health setting. 6. Plan the work of Community Health Nursing, and supervise and train health workers.

**COURSE CONTENTS** UNIT I • Introduction to Community Health – Concepts, Principles and Elements of Primary Health Care. • Introduction to Community Health Nursing. • Concept of Community Health Nursing – Community Nursing process. • Objective, Scope and Principles of Community Health Nursing. UNIT II • Family Health Services. • Concept, Objective, Scope and Principles. • Individual, Family and Community as a unit of service. • Principles and techniques of home visiting. • Establishing working relationship with the family. • Working with families in

relation to prevention of diseases, promotion of health. • Care of the sick in the home, physically handicapped and mentally challenged. • Surveillance and Monitoring.

UNIT III • Organization and Administration of health services in India. • National Health Policy. • Health Care Delivery system in India. • Health team concepts: • Centre, State, District, Urban Health Services, Rural Health Services • System of medicines • Centrally sponsored health schemes • Role of voluntary health organizations and International Health Agencies • Role of health personnel in the community • Public Health Legislation.

UNIT IV • Health Education: • Aims, Concepts and Scope of Health Education. • National Plan for Health Education • Communication Techniques • Methods and media for health education programmes • Planning for health education and role of nurse.

UNIT V • Role of the Community Health Nurse. • National Health Programmes: • Maternal and child health programmes • Family welfare and school health services • Occupational health services. • As a member of the health team. • Training and supervision of health care workers.

UNIT VI • Epidemiology • Definition – concepts, aims, objectives, methods & principles, • Epidemiology – theories and models. • Application of Epidemiology, principles and concepts in community health. UNIT VII • Bio-Statistics and Vital Statistics. • Introduction, definition and scope, legislation. • Report, recording and compiling of vital statistics at the local, state, national and international level. • Definition and methods of computing vital statistics. • Methods of presenting data. • Management information system.

## PRACTICUM

1. Each student will prepare a community profile.
2. The student will be allotted families for gaining experience in identifying family health needs, health counselling and guidance and family budgeting for optimum health.
3. The student will participate in the activities of primary health centre.
4. Sub-centre, MCH centre.
5. Visits will be made to selected health and welfare agencies, water purification plant and sewage disposal plant, infectious disease hospital, child welfare centre, old aged homes, orphanages and handicapped hospitals.
6. Conduct health educational programmes for individual/ groups/ community.

## References.

Parks text book of preventive and social medicine 24 th edition K.Park. Bhnot publication

Community health nursing K.K Gulani . Kumar publication

**Teaching Learning Strategies in brief :**

The teaching learning strategies, followed are broad and chalk teaching, learning through discussion among the peer group, classroom interaction ,quiz, presentation Q&A session and reflective learning.

**Assessment methods and weight ages**

There are two components of assessment: Internal :25 marks. External 75 marks Annual basis .

There are two sessional examination, the average marks of two sessional exam are computed for internal assessment. Sessional exam is conducted with 40 marks and computed with 20 marks. Continues mode of evaluationis of 10 marks.

## PBBSc II Year PO and CO

**Name of the Academic Program: Post Basic B.Sc. Nursing II Year**

**Course Code: BSNPB203 Title of the Course: MENTAL HEALTH NURSING**

**L-T-P: 0-0-8 Credits: 4**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

Mental Health Nursing (Theory) 60, Mental Health Nursing (Practical) 240

### **COURSE OUTCOMES(COs)**

**1At the end of course, the student will be able to:**

1. Identify and describe the Philosophy and Principles of Mental Health Nursing.
2. Describe the Historical Development of Mental Health and Psychiatric Nursing.
3. Classify Mental Disorders.
4. **Develop skill in history taking and performing Mental status examination.**
5. Describe etiological factors, Psychopathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.
6. Manage the patients with various Mental disorders.
7. **Communicate therapeutically with patients and their families.**
8. Identify role of the Nurse in preventive psychiatry.
9. Identify the legal aspects in practice of Mental Health and Psychiatric Nursing.

### **Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	1	1	2	2	3	1	2	2	3	1
<b>CO2</b>	3	1	2	2	1	2	2	1	3	3
<b>CO3</b>	3	2	3	2		2	1	2	1	3

<b>CO4</b>	3	3	1	1	3	2	3	1	2	3
<b>CO5</b>	1	3	3	3	3	2	1	3	3	1
<b>CO6</b>	1	1	2	2	3	1	2	2	1	1
<b>CO7</b>	3	1	2	2	1	2	2	1	3	1
<b>CO8</b>	3	2	3	2	1	2	1	2	3	2
<b>CO9</b>	3	3	1	1	3	2	3	1	3	3

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs). Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low'-level' mapping.

### **UNIT I**

- Introduction and historical development.
- History of Psychiatry.
- Historical development of Mental Health Nursing.
- Philosophy, Principles of Mental Health Nursing and Psychiatric Nursing.
- Concept of normal and abnormal behavior.
- Role and qualities of Mental Health and Psychiatric Nurse.
- Mental Health team and functions of team members.
- Legal aspects in Psychiatry and Mental Health services.

### **UNIT II**

- Classification and assessment of mental disorders.
- Terminologies used in Psychiatry. • Classification of mental disorders.
- Etiological factors and psychopathology of mental disorders.
- History taking and assessment methods for mental disorders.

### **UNIT III**

- Therapeutic communication.
- Communication process.
- Interview skills, therapeutic communication techniques. Nurse patient relationship, therapeutic impasse and its management process recording.

### **UNIT IV**

- Management of mental disorders
- Etiological factors, psychopathology, types, clinical features, diagnostic criteria,

treatment and Nursing management of patient with following disorders:

- Neurotic disorders: Anxiety Neurosis, Depressive Neurosis, Obsessive Compulsive Neurosis, Phobic Neurosis and Hypochondriacal Neurosis, stress related and somatoform disorders.
- Psychotic disorders: Schizophrenic form, Affective and Organic psychosis.
- Organic Brain syndromes
- Psychosomatic disorders
- Personality disorders
- Disorders of Childhood and Adolescence.

#### **UNIT V**

- Management of patients with Substance use disorders.
- Substance use and misuse.
- Dependence, Intoxication and Withdrawal
- Classification of Psychoactive Substances
- Etiological & Contributory factors
- Psychopathology
- Clinical features
- Diagnostic criteria.
- Treatment and Nursing management of patient with Substance use disorders.
- Preventive and rehabilitative aspects in substance abuse.

#### **UNIT VI**

- Management of mental sub-normality.
- Classification of mental sub-normality.
- Etiological factors, psychopathology, psychometric assessment. Diagnostic criteria and management of sub-normality.

#### **UNIT VII**

- Psychiatric emergencies.

- Types of emergencies, psychopathology, clinical features, assessment and diagnosis, treatment and Nursing management of patient with Psychiatric emergencies.

- Crisis intervention therapy.

### **Unit VIII**

- Therapeutic modalities.

- Principles, indication, contraindications and role of Nurse in various treatment methods:

Therapeutic community and Milieu therapy

- Occupational therapy

- Psychotherapy

- Behaviour therapy

- Group therapy

- Family therapy

- Pharmacotherapy

- Electro convulsive therapy

- Other miscellaneous therapies.

### **Unit IX**

- Preventive Psychiatry.

- Model of prevention.

- Role of Nursing in preventive Psychiatry.

- Psychiatric social work.

- Community Mental Health Nursing.

- Community Mental Health agencies.

- National Mental Health programmes.

### **PRACTICUM**

The student will be provided opportunity to:



1. Observe, Record and Report the behaviour of their selected patients.
2. Record the process of interaction.
3. Assess the Nursing needs of their selected patients, plan and implement the Nursing intervention.
4. Counsel the attendant and family members of patient.
5. Participate in the activities of Psychiatric team.
6. Write observation report after a field visit to the following places:
  - Child guidance clinic.
  - School / Special Schools (For mentally subnormal)
  - Mental Hospital,
  - Community Mental Health Centres.
  - De-addiction and Rehabilitation Centres.

## REFERENCES

StuartMichele T. Laraia Principles & Practice of PsychiatricNursing; .Elsevier Publication ; 8th edition

2.Mary C. Townsend ; Psychiatric Mental Health Nursing ; Jaypee Publication ; 5th edition

3.KP Neeraja ; Essentials of Mental Health & Psychiatric Nursing ; vol-1 Jaypee publication ; 1st edition

4.BT Basvanthapa Psychology for Nursing Jaypee Publication

5.Sreevani R, A Guide to Mental Health & Psychiatric Nursing, 3<sup>rd</sup> edition, Jaypee Brothers Medical publishers.

6.Lalitha K. Mental Health & Psychiatric Nursing,1<sup>st</sup> edition, Gajanana book publishers and distributors, Bangalore .

### **Teaching-Learning Strategies in brief**

The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

### **Assessment methods and weightages in brief**

There are two components of assessment: Internal assessment and End semester examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams . The average marks of two Sessional exams are computed for internal assessment. Sessional exam is conducted for 40 marks and are computed for 25 marks. Continuous mode

evaluation is of 10 marks comprising of Attendance (4 marks), Academic activities (Average of any 3 activities e.g., Quiz, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks). End semester exams is of 75 marks. Total Marks are 100 for the subject (Internal Assessment: 25 Marks and End semester examination: 75 Marks) .

### **Course Design**

**Name of the Academic Program : Post Basic B.Sc. Nursing (2<sup>nd</sup> yr)**

**Course Code: BSN PB-204**

**Title of the Course: INTRODUCTION TO NURSING EDUCATION**

**Theory -60 hrs**

**Practicam-75 hrs**

**Credit- 4**

#### **COURSE OUTCOMES (COs)**

After completing this Course, the students should be able to :

At the end of the course, the students will:

- C.O.1. Describe the philosophy and Principles of education.
- C.O. 2. Explain the teaching – learning process.
- C.O. 3. Develop the ability to teach using various methods and media.
- C.O. 4. Describe the process of assessment.
- C.O.5. Describe the administrative aspects of school of Nursing.
- C.O. 6. Participate in planning and organizing an in-service education programme.
- C.O.7. **Develop basic skill of counselling and guidance.**

#### **Mapping of Course Outcomes (COs) with Program Outcomes (POs) and Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	3	2	2	1	1	1	2	1	3	2
<b>CO2</b>	3	2	2	1	1	2	1	2	1	1

<b>CO3</b>	3	2	3	2	1	2	1	1	1	2
<b>CO4</b>	3	1	3	1	1	1	1	1	1	2
<b>CO5</b>	3	3	2	3	1	2	1	1	2	2
<b>CO6</b>	3	1	1	2	2	2	2	2	2	2
<b>CO7</b>	3	2	2	2	2	1	2	2	1	1

### **Detailed Syllabus:**

#### Unit I

Introduction to education, Meaning of education, aims, function and principles, Philosophy of education, Factors influencing development of philosophy of Nursing Education.

#### UNIT II

Teaching learning process, Nature and characteristics of learning, Principles and maxims of teaching , Formulating objectives, Lesson planning

#### UNIT III

Methods of teaching, Teaching methods, Lecturer, Discussion, Demonstration, Group discussion Project Role play, Panel discussion, Symposium, Seminar, Field trip, Workshop, Exhibition ,Programmed instruction, Computer assisted learning, Clinical teaching methods, Case methods ,Case presentation, Nursing rounds and reports, Bedside clinic, Conference (individual and group) Recording of interaction process.

#### UNIT IV

Educational media, Communication Process, Factors Affecting Communication, Purpose and Types of Audio-Visual Aids, Graphics aids Chalk-board, Charts, Graphs, Poster, Flash Cards, Flannel graph / Khadigraph, Bulletin, Cartoon, Three Dimensional Aids, Objects, Specimen, Models, Puppets. Printed Aids Pamphlets and Leaflets, Projected Aids Slides, Films and Television, VCR, VCP, Overhead Projector, Camera, Microscope. Audio Aids: Tape Recorder, Public address system, Computer.

#### UNIT V

Methods of assessment, Purpose and Scope of evaluation and assessment, Criteria for selection of assessment techniques and methods, Assessment of knowledge: essay type question, SAQ (short answer questions), MCQ (multiple choice questions), Assessment of skills: observation, check list. Practical examination Viva, objective structured clinical examination, Assessment of attitude: Attitude scale.

#### UNIT VI

Management of School of Nursing, Planning of school of Nursing, organization. Recruitment of teaching staff, budget, facilities for the school, student selection and admission procedure,

administrative planning of students, welfare services for students, maintenance of schools records, preparation of annual reports, INC guidelines for schools of Nursing.

#### Unit VII

Guidance and counselling: Definition, Basic principles of guidance and counselling, Organization of guidance and counselling services, Counselling process, Managing disciplinary problems, Management of crisis.

#### Unit VIII

In-service education, Introduction to nature and scope of in-service education programme, Principles of adult learning, Planning for in-service programme, Techniques, and methods of staff education programme, Evaluation of in-service programme.

**PRACTICUM** Each student should:

Conduct five planned teaching using different methods and media.

2. Prepare different types of teaching aids.
3. Plan, organize and conduct in-service education programme
4. Conduct at least one counselling session.
5. Prepare rotation plans

#### **Reference Books:**

1. Braun, Barbara.J.Steven (1994)Nursing theory; analysis, application, evaluation. Philadelphia, 4th edition jb lippincottcompany.4th edition
2. Shankaranarayan.B, Sindhu B. Learning and Teaching Nursing ; edition 3rd ; brainfill publishers ;2009
3. Basvanthapa BT,Nursing Education 1<sup>st</sup> edetion ,New Delhi,J.P.publisher 2003
4. Bhaskararaj.D.Ellakunname Bhaskara Bimma, Text Book of Nursing Education, Banglore, 2013

#### **5. Teaching-Learning Strategies in brief**

6. The teaching learning strategies, followed are board and chalk teaching, Learning through discussion among the peer group, classroom interaction, quiz, presentations, Q & A session and reflective learning.

#### **7. Assessment methods and weightages in brief**

8. There are two components of assessment: Internal assessment and End semester examination. Internal assessment consists of continuous mode and sessional exams. There are two Sessional exams and one improvement exam. The average marks of two Sessional exams are computed for internal assessment. Sessional exam is conducted for 30 marks and are computed for 15 marks. Continuous mode evaluation is of 10 marks comprising of Attendance (4 marks),

Academic activities (Average of any 3 activities e.g. Quiz, assignment, open book test, field work, group discussion and seminar) (3 marks) and student teacher interaction (3 marks). End semester exams is of 75 marks.

9. Total Marks are 100 for the subject (Internal Assessment: 25 Marks and End semester examination: 75 Marks) .

### **Course Design**

#### **Typical Course Design**

**Name of the Academic Program Post Basic B.Sc Nursing**

**Course Code: BSNPB-205.....Title of the Course:  
.....Introduction of Nursing Administration**

**L-T-P 60 Hours [Theory Hours], Credits.....4 credits (60 hours)**

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

### **COURSE OUTCOMES (COs)**

After completing this Course, the students should be able to

CO.1. Identify the principles of administration.

CO 2. Describe the principles and techniques of supervision.

CO 3. Explain the principles and methods of personnel management.

CO 4. Explain the principles of budgeting.

CO 5. Organize and manage a Nursing unit effectively.

CO 6. Identify dynamics of organizational behavior, styles and functions of effective leadership.

..

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)  
and Program Specific Outcomes (PSOs)**

	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>
<b>CO1</b>	2	1	2	1	1	2	1	1	1
<b>CO2</b>	1	3	3	1	1	3	3	1	1
<b>CO3</b>	3	1	3	1	1	3	1	3	1
<b>CO4</b>	1	3	1	2	1	2	1	1	3
<b>CO5</b>	1	2	1	3	1	2	1	1	2
<b>CO6</b>	3	1	3	1	3	1	3	3	1

INTRODUCTION TO NURSING ADMINISTRATION Placement: - Second Year

Time Allotted Theory -60 hrs

Practical-180 hrs

**COURSE DESCRIPTION:** , This course is designed to give an opportunity to the student to gain an understanding of the principle of administration and its application to nursing service. It is also intended to assist the students to develop an understanding of professional leadership need.

**OBJECTIVES** At the end of the course, the student will:

1. Identify the principles of administration.

2. Describe the principles and techniques of supervision.
3. Explain the principles and methods of personnel management.
4. Explain the principles of budgeting. 5. Organize and manage a Nursing unit effectively.
6. Identify dynamics of organizational behavior, styles and functions of effective leadership.

## **COURSE CONTENTS**

### UNIT I • Principles and Practices of administration.

- Significance, elements and principles of administration,
  
- Organization of Hospital – Definition, aims, functions, and classifications, health term.
  
- Policies of hospital, different departments with special emphasis to department of Nursing & office management.
  
- Responsibilities of the Nursing personnel especially of ward Sister, medico legal aspects, concept of cost effectiveness.

### UNIT II

- Nursing Unit Management.
  
- Physical layout of a Nursing Unit and necessary facilities.
  
- Factors affecting the quality of Nursing care.
  
- Maintenance of a therapeutic environment
  
- Administration of the unit – management of patient care.
  
- Maintenance of physical environment.
  
- Assignment of duties and time plan.
  
- Patient assignment, safety measures, prevention of accidents and infections.
  
- Maintenance of patients' records and reports, legal responsibilities.
  
- Maintenance of quality Nursing care, Nursing audit.

### UNIT III • Personnel management.

- Staff recruitment and selection, appointment, promotions, personnel policies and jobs descriptions.
- Job analysis.
- Staffing the unit, staffing norms, rotation plan, leave planning, performance appraisal, staff welfare and management of disciplinary problems.

#### UNIT IV • Supervision.

- Principles of supervision, nature and objectives.
- Tools and techniques of supervision.
- Evaluation.
- Nursing audit.
- Staff development – orientation program.
- Skill training.
- Leadership development.
- Problem solving process.

#### UNIT V

- Material management.
- Principles of material management.
- Quality control.
- Inventory, care of equipment, safekeeping.
- Role of nursing personnel in material management.

#### UNIT VI

- Financial Management.
- Budgeting – principles of budgeting, audit.

#### UNIT VII

- Organizational Behavior.



- Group dynamic and human relation, organizational communication (hospital information system).
- Public relation, leadership styles and functions.

- Methods of reporting.

- Maintaining records and reports.

## PRACTICUM

1. Observe the functioning of Nursing administration at various level i.e. institution, Department, unit etc.

2. Each student will practice Ward Management under supervision.

3. Student will prepare rotation plan of the staff, write reports, give verbal reports of the ward and assist in maintaining the inventory of the Nursing unit.

4. Visit to private and government hospital and write observation reports

## References.

Text book of Administration of management jogendir Bati ,jaypee publication

Text book of Administration of management B.T Vaswant Thapa

## Teaching Learning Strategies in Brief :

The teaching learning strategies, followed are broad and chalk teaching, learning through discussion among the peer group, classroom interaction, quiz, presentation Q&A session and reflective learning.

## Assessment methods and weight ages

There are two components of assessment: Internal :25 marks. External 75 marks Annual basis .

There are two sessional examination, the average marks of two sessional exam are computed for internal assessment. Sessional exam is conducted with 40 marks and computed with 20 marks. Continues mode of evaluationis of 10 marks.

## **COURSE DESIGN**

### **TYPICAL COURSE DESIGN**

**Name of the Academic Program:** Post basic B.Sc (Hons.) Nursing

**Paper Code:** BSN PB-206

**Title of the Course:** INTRODUCTION TO NURSING RESEARCH AND STATISTICS

**L-T-P:** 45 – 0 - 120

(L=Lecture hours, T=Tutorial hours, P=Practical hours)

**Credits:** 3

### **COURSE OUTCOMES (COs)**

**(5 to 8 in case 3 or 4 credit courses)**

After completing this Course, the students should be able to .....

CO1. Define the terms and concepts of nursing research

CO2. Identify needs and scope of nursing research

CO3. Identify and define a research problem

CO4. Locate and list sources of literature for a specific study

CO5. Describe different research approaches, methods of data collection and sampling techniques with a special reference to survey method.

CO6. **Develop tools for data collection**

CO7. Enumerate steps of data analysis and present data summary in tabular form

CO8. **Use descriptive and co-relational statistics in data analysis**

CO9. Conduct a group research project

..

**Mapping of Course Outcomes (COs) with Program Outcomes (POs)  
and Program Specific Outcomes (PSOs)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
<b>CO1</b>	1	1	1	1	1	1	1	1	3	1
<b>CO2</b>	1	1	1	1	1	1	1	1	3	1
<b>CO3</b>	1	1	1	1	1	1	1	1	3	1
<b>CO4</b>	1	1	1	1	1	1	1	1	3	1
<b>CO5</b>	1	1	1	1	1	1	1	1	3	1
<b>CO6</b>	1	1	1	1	1	1	1	1	3	1
<b>CO7</b>	1	1	1	1	1	1	1	1	3	1
<b>CO8</b>	1	1	1	1	1	1	1	1	3	1
<b>CO9</b>	1	1	3	2	2	1	1	3	3	1

Each Course Outcome (CO) may be mapped with one or more Program Outcomes (POs).

Write '3' in the box for 'High-level' mapping, 2 for 'Medium-level' mapping, 1 for 'Low'-level' mapping.

**Mapping with PSOs, where applicable.**

**Detailed Syllabus:**

## **A. INTRODUCTION TO RESEARCH METHODOLOGY**

- UNIT I • Steps of scientific methods. • Definition of Research. • Need for Nursing Research. • Characteristics of good research. Research process.
- UNIT II • Statement of Research problem. • Statement of purpose and objectives. • Definition of Research terms. • Review of literature.
- UNIT III • Research approaches:
  - historical, survey and experimental.
- Unit IV • Sampling techniques and methods of data collection. • Sampling. • Instrument-questionnaire, Interview. • Observation schedule, records, measurements. • Reliability and validity of instruments.
- UNIT V • Analysis of Data, Tabulation: • Classification and summarization • Presentation • Interpretation of data.
- UNIT VI • Communication of research findings. • Writing report: • Organizing materials for writing • Format of the report • Use of computers.

## **B. INTRODUCTION TO STATISTICS**

- UNIT VII • Descriptive Statistics. • Frequency Distribution – Types of measure - frequencies, class interval, graphic methods of describing frequency. • Measures of Central Tendency – Mode, Median, Mean. • Measures of variability: Range, Standard deviation • Introduction to normal probability.
- UNIT VIII • Correlation. • Computation by rank difference methods. • Uses of correlation co-efficient.
- UNIT IX • Biostatistics: Crude rates and standardized rates, ratio and estimation of the trends.
- UNIT X • Introduction to computers in Nursing. • Introduction to Computer and disk – operating system • Introduction to word processing • Introduction to data base • Window application: Word, Excel, Power point, Multimedia. • Use of statistical packages. • Introduction to internet & use of electronic mail. • Computer aided teaching & testing.

## **PRACTICUM**

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

## **Reference Books:**

10. Authors (year), *Title of the Book*, Edition, Publishers, Place of Publication, Page Nos.
  1. Sharma SK, Nursing Research & Statistics, 2011, Elsevier Publications, Gurgaon
  2. Basavanthappa. Nursing Research. 2<sup>nd</sup> ed. Jaypee publisher, ISBN: 8170795986

3. Denise F Polit, Cheryl T Beck, CNM, Nursing Research. 9th ed. Publication Date: Feb 8, 2011, ISBN/ISSN: 9781605477084

### **Teaching-Learning Strategies in brief (4 to 5 sentences)**

- Lecture cum discussion using ppt slides
- Illustrations using examples on chalk board
- Presentations of a sample published / unpublished research report.
- Discussion of results of a sample published / unpublished research
- Conduct group research project

### **Assessment methods and weightages in brief (4 to 5 sentences)**

- Essay type questions (sessional exam- 10 marks)
- Term end exam (25 marks)
- Objective type questions and SAQs (class test & quiz- 10 marks)
- Assessment of group research Project (50 marks)

### **What are Course Outcomes (COs)**

The programme outcomes are attained by learners through the essential learning outcomes acquired on completion of selected courses of study within a programme.

- The term 'course' is used to mean the individual courses of study that make up the scheme of study for a programme and needs to be prepared semester wise.
- Course outcomes (COs) are specific to the learning for a given course of study related to a disciplinary or interdisciplinary/multi-disciplinary area.
- Some programmes of study are highly structured, with a closely laid down progression of compulsory/core courses to be taken at particular phases/stages of learning.
- Some programmes allow learners more freedom to take a combination of courses of study according to the preferences of individual student that may be very different from the courses of study pursued by another student of the same programme. COs must be aligned with the relevant POs

### **Guidelines for preparing Course Outcomes (COs)**

1. Use Bloom's taxonomy to prepare Course outcomes
2. The Course outcomes (COs) may be (mostly) at apply level and higher levels (apply or analyze or evaluate or create).
3. For each Course Outcome, its cognitive level must be mentioned within brackets.
4. The number of Course outcomes (COs) may be between 5 and 8 for a 3 or 4 credit course.
5. Common stem: After completing this Course (or unit of a course) the students should be able to .....

### **Guidelines for preparing Teaching-Learning Strategies**

**While preparing 4 to 5 sentences for teaching learning strategies, the teachers can take into account the learning provided by them through the following activities:**

- Learning by doing
- Learning through discussion among the peer group
- Learning through Case Studies
- Group Projects
- Through Field Studies
- Experiential Learning
- Reflective Learning
- One Minute Paper during the classroom interaction
- Open ended questions by teacher
- Open ended questions from students
- Collecting questions in a Question Bowl taken around the class by the teacher or one of the students and discussion on those questions
- Preparation of question bank by students at various cognitive level

**Guidelines for preparing Assessment methods and weightages in brief (4 to 5 sentences)**

A variety of assessment methods that are appropriate to a given disciplinary/subject area and a programme of study will be used to assess progress towards the course/programme learning outcomes. Priority will be accorded to formative assessment. Progress towards achievement of learning outcomes will be assessed using the following: time-constrained examinations; closed-book and open-book tests; problem based assignments; practical assignment laboratory reports; observation of practical skills; individual project reports (case-study reports); team project reports; oral presentations, including seminar presentation; viva voce interviews; computerised adaptive testing; peer and self assessment etc. and any other pedagogic approaches as per the context .

## **COURSE OUTCOMES (COs)**

### **Representative Example 1**

**Course Title: Design and Analysis of Algorithms**

**After completion of this course, the students should be able to:**

- CO-1:** Demonstrate a familiarity with major algorithms and data structures. (Cognitive level: Understand)
- CO-2:** Apply important algorithmic design paradigms and methods of analysis. (Cognitive level: Apply)
- CO-3:** Analyze the asymptotic performance of algorithms. (cognitive level: Analyse)
- CO-4:** Write rigorous correctness proofs for algorithms. (cognitive level: Apply)
- CO-5:** Synthesize efficient algorithms without any error in common engineering design situations. (cognitive level: create)

### **Representative Example 2**

**Course Title: Database Management and Applications**

**After completion of this course, the students should be able to:**

- CO-1:** Analyze database concepts, different database models, and database management systems. (cognitive level: Analyze)
- CO-2:** Develop SQL (Structured Query Language) statements to create, manipulate, and query databases. (cognitive level: Apply)
- CO-3:** Design and develop a typical enterprise database. (cognitive level: Create)
- CO-4:** Utilize commercially available database management systems for developing any database. (cognitive level: Apply)
- CO-5:** Identify database management issues including data integrity, security, and recovery. (cognitive level: Analyze)

### **Representative Example 3**

**Course Title: Principles of management**

**After completion of this course, the students should be able to:**

- CO-1:** Integrate management principles into management practices. (cognitive level: Apply)
- CO-2:** Assess global situation, including opportunities and threats that will impact management of an organization. (cognitive level: Analyze)
- CO-3:** Assess managerial practices and choices relative to ethical principles and standards. (cognitive level: Analyze)
- CO-4:** Specify how the managerial tasks of planning, organizing, and controlling can be executed in a variety of circumstances. (cognitive level : Apply)
- CO-5:** Evaluate different approaches to addressing issues of diversity. (cognitive level: evaluate)

**CO-6:**Evaluate the global context for taking managerial actions of planning, organizing and controlling (cognitive level: Evaluate)

**Representative Example 4**

**Course Title: English for technical communication**

**After completion of this course, the students should be able to:**

**CO-1:** Explain basic principles of grammar and vocabulary (understand level) **CO2** Write clear and coherent paragraphs (apply level)

**CO-2:** Write effective résumé, cover letter and letters for a variety of purposes (apply level)

**CO-3:** Prepare technical reports and interpret graphs (apply level)

**CO-4:** Develop reading comprehension skills (apply level)

**CO-5:**Develop English speech sounds, stress and intonation (apply level)