

**Academic Programme Guide**  
**of**  
**Bachelors of Science in Nursing**  
**(B.Sc. Nursing)**

*Based on Choice Based Credit System (CBCS) / Elective Course  
System*



**w.e.f.**

**Academic Year: 2019-20**

Approved by the 23<sup>rd</sup> Academic Council vide agenda item no. 23.7 dated 03-07-2019

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## **1. GENERAL INFORMATION**

The academic programme guide of B.Sc. Nursing Batch-2019 is a comprehensive document which provides details about program objectives, course structure under various course categories along with year of placement credits per course and the distribution of each course in lecture and practical hours. It also details the eligibility criteria for admission, for award of degree, the assessment and evaluation procedures along with a glimpse of the pedagogical aspects of the programs. This guide is to be used in association with the Academic Regulations of the University to make a complete rule set. The course schemes given in this document are approved by respective Board of Studies and the Academic Council of Chitkara University. The Course code gives information about the course and is derived using Table 2.

### **1.1 Program Education Objectives (PEO)**

The programme education objectives of the B. Sc. Nursing program as follows:

**PEO- 1** Produce knowledgeable competent nurses and midwives with clear critical thinking skills who are caring, motivated, assertive and well-disciplined responding to the changing needs of profession, healthcare delivery system and society.

**PEO- 2** Prepare them to assume responsibilities as professional, competent nurses and midwives in providing promotive, preventive, curative and rehabilitative healthcare services in any healthcare setting.

**PEO- 3** Prepare nurses and midwives who can make independent decisions in nursing situations within the scope of practice, protect the rights of individuals and groups and conduct research in the areas of nursing practice and apply evidence- based practice.

**PEO- 4** Prepare them to assume role of practitioner, teacher, supervisor and manager in all healthcare settings.

### **1.2 Programme Outcomes:**

On completion of the four year B.Sc. Nursing program, the graduates will be able to:

**PO 1:** Utilize critical thinking to synthesize knowledge derived from physical, biological, behavioural sciences, and humanities, in the practice of professional nursing and midwifery.

**PO 2:** Practice professional nursing and midwifery competently and safely in diverse settings, utilizing caring, critical thinking and therapeutic nursing interventions with individuals, families, populations and communities at any developmental stage and with varied lived health experiences, different lifestyles and health affecting factors.

**PO 3:** Apply concepts of leadership, autonomy and management to the practice of nursing and midwifery to enhance quality and safety in health care.

**PO 4:** Respect the dignity, worth, and uniqueness of self and others and demonstrate critical thinking skills in order to provide quality care.

**PO 5:** Utilize the latest knowledge and skills related to information and technology to enhance patient outcomes.

**PO 6:** Utilize the requisite knowledge, skills and technologies to practice independently and collaboratively with all health professionals applying the principles of safety and quality improvement.

**PO 7:** Integrate professional caring into practice decisions that encompass values, ethical, and moral and legal aspects of nursing.

**PO 8:** Communicate effectively with patients, peers, and all health care providers.

**PO 9:** Provide promotive, preventive and restorative health services in line with national health policies and programs.

**PO 10:** Integrate research findings and nursing theory in decision making in evidence-based practice.

**PO 11:** Accept responsibility and accountability for the effectiveness of one's own nursing and midwifery practice and professional growth as a learner, clinician and leader.

### 1.3 University Vision and Mission

#### University Vision:

To be a globally recognized organization promoting academic excellence through interdisciplinary applied research and to expand realms of knowledge through innovation.

#### University Mission:

**M1:** To carry out the academic processes in accordance with global standards through active teacher-student-industry participation.

**M2:** To promote research, innovation and entrepreneurship in collaboration with industry, research laboratories and academic institutions of global repute.

**M3:** To inculcate high moral, ethical and professional values amongst our students, faculty & staff.

**M4:** To contribute in building skilful society.

The programme outcomes are focused on preparing graduates as professional competent nurses & midwives in providing promotive, preventive, curative & rehabilitative services in line with the SDG-3. Further, it is aimed at preparing the graduates who will be able to make independent decisions in nursing situations, protect the rights of & facilitate individuals & groups in pursuit of health, function in the hospital, community nursing services & conduct research studies in the areas of nursing practice. Further, the programme encourages accountability and commitment to lifelong learning which fosters improvement of quality care.

College of Nursing is committed to provide high-quality educational opportunities to prepare the student nurses to function as a professional nurse providing safe, compassionate, ethical, quality and evidence-based comprehensive nursing care in order to achieve SDG 3 focused on Good health and well-being of individuals. Critical thinking skills in making patient care decisions and nursing practice within the framework of code of ethics and professional conduct is promoted. Nursing curriculum emphasizes on the use of information and technology to correspond, lessen error, and support decision making among the students. Faculty is committed to provide didactic and clinical experiences so that students can achieve Global health competencies which will promote global citizenship and achievement of SDGs. Distinct pedagogical and clinical approaches for

implementing SDG content into the curriculum are provided including an exploration of global health competencies and their relationship to the SDGs. Finally, academic-community collaboration is promoted through research and health care services to strengthen the health of communities and embark on realizing the SDGs at a local level.

#### **1.4: Placement Opportunities**

On completion of the B.Sc. Nursing, they can work as Clinical nurses, managers, researchers and educators who will possess the professional knowledge, critical thinking, ethical decision- making, leadership skills, and the independent and interdisciplinary pursuit of high standards of health care.

## **2. ELIGIBILITY FOR ADMISSION**

1. The minimum age for admission shall be 17 years on or before 31<sup>st</sup> December of the year of admission.
2. The student seeking admission in B. Sc. Nursing program should have passed in the subjects of Physics, Chemistry, Biology (PCB) and English individually and must have obtained a minimum of 45% marks taken together in PCB at the qualifying examination that is 10+2. Furthermore, the candidates belonging to SC/ST or other backward classes, the marks obtained in PCB taken together in qualifying examination be 40% instead of 45% as stated above.
3. English is a compulsory subject in 10+2 for being eligible for admission in B.Sc. Nursing.
4. The student with color blindness seeking admission in B.Sc. Nursing program can be considered the condition that color corrective contact lens and spectacles are worn by such candidates.
5. For the disabled candidates seeking admission to B.Sc. Nursing program, 5% disability reservation will be considered with a disability of loco motor to the tune of 40% to 50% of the lower extremity. The disability percentage will be decided by a committee comprised of Medical officers authorized by Medical Board of State government and a nursing expert in the panel.
6. The admission is based purely on merit. During admission process, the University follows reservation policy as decided by the State Government.
7. Candidate shall be medically fit.

### 3. PROGRAMME DURATION

The duration of the B.Sc. Nursing program is four years in which last 6 months of the fourth year will be internship period. The Chitkara University College of Nursing has collaboration with Paras Healthcare, Panchkula which provides the necessary ‘hands-on’ clinical experience; imperative for the students pursuing this hospital based academic program. There is University end term examination at the end of each year. The maximum duration for completion of degree is 8 years.

### 4. PEDAGOGICAL ASPECTS

The structural layout of the program and its courses requires that each course be divided in lecture and practical sessions. Duration of each session/lecture will be 1 hour.

**Lecture sessions:** Lectures are delivered by the teacher using whiteboard supplemented by modern Information Communication Technology (ICT) tools. The students are encouraged to ask questions and involve in group discussion to the extent allowed by the teacher. In some subjects where case study-based methodology is adopted, the lectures are supplemented by discussions on case studies.

**Lab / Practical Sessions:** During lab / practical sessions, the students work on prescribed list of procedures which is based on what they have learnt in the Lecture.

**Clinical Training:** The students will be imparted clinical training in Paras Hospital, Panchkula and other specialized hospitals according to the specialized training requirements of the students. For the community health experience, they will be sent to nearby Community health centers and primary health centers.

**Internal Project:** Students conduct Group Research Projects in various settings and utilize the research findings to provide quality Nursing Care.

## 5. PROGRAMME STRUCTURE

At Chitkara University, Bachelors of Science in Nursing is a 4-year degree program based on choice based credit system. It is a flexible system of learning which allows students to undergo additional courses and acquire more than the required number of credits. This program is recognized by Himachal Pradesh Nursing Registration Council. The strong academia-industry linkage is the focus to render expertise in theory and technical abilities among the students in order to enhance their future prospective at an international repute.

Further, outcome based education has been implemented to build employability, entrepreneurship and competency/skills among nursing students through all the courses being offered to them so that the graduating nurses are well equipped with the latest knowledge and skills which in turn would make them more employable and promote entrepreneurship amongst them.

There are total 11 POs of B.Sc Nursing Programme and these POs are aligned within the mission and vision of the University. POs attainment is calculated at the end of each programme by direct and indirect assessment. Direct PO attainment is based on the students' formative and summative assessment whereas indirect PO attainment involves feedback of alumni and Employer.

There are 5-7 well-defined course learning outcomes (CLOs) of each course/subject based on content of the syllabus and evaluation component, which are mentioned in course handout of each subjects. These CLOs have to be achieved at the end of respective course. Therefore, POs have strong linkage with all CLOs of particular program that relationship is measured on the scale of 1-3.

The B.Sc. (Nursing) program includes total 198/199/200 credits distributed across theory component and practical component in each year following the curriculum guidelines of Indian Nursing Council (INC). The detail of year-wise distribution of credits is given as under:

**Table 1: Programme Structure**

Year	Theory Credit	Theory Hours	Practical Credit	Practical Hours	Total Credits	Total Hours
First year	31	915	15	450	46	1365
Second year	19	610**	29	855	48	1465



Third year	12	345	29	855	41	1200
Fourth year including internship	9/10 <sup>#</sup> /11 <sup>##</sup>	270/300 <sup>#</sup> /315 <sup>##</sup>	54	1605	63/64 <sup>#</sup> /65 <sup>##</sup>	1875/1905 <sup>#</sup> /1920 <sup>##</sup>
<b>Total Credits</b>	<b>71/72<sup>#</sup>/73<sup>##</sup></b>	<b>2140/2170<sup>#</sup>/2185<sup>##</sup></b>	<b>127</b>	<b>3765</b>	<b>198/199<sup>#</sup>/200<sup>##</sup></b>	<b>5905 /5935<sup>#</sup>/5950<sup>##</sup></b>

**Note:** 1 credit = 30 hours. If any course has more than 30 hours, but less than 60 hours, that course will be given 2 credits. If any course has less than 30 hours, that course will not be given any credit.

\*\* One of the subjects of 2<sup>nd</sup> year named Human Rights & Values is of 30 hours and it is a no credit course. Therefore, the total earned theory credits in 2<sup>nd</sup> year are 19 instead of 20.

# Applicable ONLY for the students who will study an additional subject Leadership Development & Practice in fourth year and it is of 30 hours.

## Applicable ONLY for the students who will study an additional subject Advance Research Methodology in fourth year and it is of 45 hours.

### **Table 2: Course Code Scheme**

First two letters would indicate the academic Unit offering the course. Third letter would indicate the type of Course

First Number -Credits of the course (**1 Credit= 30 Hours**)

Second Number -Year of Program

Last two numbers -Sequencing of course

<b>Allotment of first two letters</b>	
NS	Nursing
<b>Third letter</b>	
L	Course with only theory component
P	Course with only Lab component
T	Training, Dissertation
S	Self-Study, Project, Seminar
W	Workshop course

<b>First numeral (One credit= 30 Hours)</b>	
1	1 credit course
2	1.5 or 2 credit course
3	2.5 or 3 credit course
4	3.5 or 4 credit course
5	4.5 or 5 credit course
6	5.5 or 6 credit course
7	6.5 or 7 credit course
8	7.5 or 8 Credit Course
9	8.5 or 9 or more credit course

<b>Second Numeral (this number indicates the incremental year of study after 12<sup>th</sup> class)</b>	
0	For courses are after 10 <sup>th</sup>
1	Year 1
2	Year 2
3	Year 3
4	Year 4
5	Year 5
6	Year 6
7	Year 7

<b>Third and Fourth Numerals (Sequencing of Course)</b>	
01	Course Number 1
02	Course Number 2
03	Course Number 3
04	Course Number 4
05	Course Number 5
06	Course Number 6
07	Course Number 7

The whole B.Sc. Nursing program is divided into two categories; theory and practical (Table 3) as mentioned below:

<b>YEAR- I</b>					
<b>Course Category</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Credits</b>	<b>Theory/Lab (Hours)</b>	<b>Clinical Hours</b>
Theory	NSL9101	Nursing Foundations	16	265 / 200	-
Theory	NSL4102	Anatomy & Physiology	4	120	-
Theory	NSL3103	Nutrition & Biochemistry	3	90	-
Theory	NSL2104	Psychology	2	60	-
Theory	NSL2105	Microbiology	2	60	-
Theory	CLW2101	English*	2	60	-
Theory	CSL2103	Introduction to Computers*	2	45	-
Theory	HUL2401	Cyber Security**	-	15	-
Practical	NSP9101	Nursing Foundations (Practical)	15	-	450
<b>Total Credits and Hours</b>			<b>46</b>	<b>915</b>	<b>450</b>
<b>YEAR - II</b>					
<b>Course Category</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Credits</b>	<b>Theory Hours</b>	<b>Clinical Hours</b>
Theory	NSL2206	Sociology	2	60	-
Theory	NSL7207	Medical Surgical Nursing-I	7	210	-
Theory	NSL3208	Pharmacology,	3	90	-

		Pathology & Genetics			
Theory	NSL3209	Community Health Nursing-I	3	90	-
Theory	NSL3210	Communication and Education Technology	3	90	-
Theory	ES101	Environmental Sciences*	1	40	-
Theory	HUL3301	Human Rights & Values*	-	30	-
Practical	NSP9202	Medical Surgical Nursing-I (Practical)	24	-	720
Practical	Qu-NSP5203	Community Health Nursing-I (Practical)	5	-	135
<b>Total Credits and Hours</b>			<b>48</b>	<b>610</b>	<b>855</b>

**YEAR- III**

Course Category	Course Code	Title of Course	Credits	Theory Hours	Clinical Hours
Theory	NSL4311	Medical Surgical Nursing-II	4	120	-
Theory	NSL3312	Child Health Nursing	3	90	-
Theory	NSL3313	Mental Health Nursing	3	90	-
Theory	NSL2314	Nursing Research & Statistics	2	45	-
Practical	NSP9304	Medical Surgical Nursing-II (Practical)	9	-	270
Practical	NSP9305	Child Health Nursing (Practical)	9	-	270
Practical	NSP9306	Mental Health Nursing	9	-	270

		(Practical)			
Practical	Qu- NSP2307	Research Project	2	-	45
<b>Total Credits and Hours</b>			<b>41</b>	<b>345</b>	<b>855</b>
<b>YEAR – IV</b>					
<b>Course Category</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Credits</b>	<b>Theory Hours</b>	<b>Clinical Hours</b>
Theory	NSL3415	Midwifery and Obstetrical Nursing	3	90	-
Theory	NSL3416	Community Health Nursing-II	3	90	-
Theory	NSL3417	Management of Nursing Service and Education	3	90	-
Theory	LDP1418/ ARM2419	Leadership Development & Practice / Advance Research Methodology (CBCS)	1/2	30/45	-
Practical	NSP9408	Midwifery and Obstetrical Nursing (Practical)	12	-	360
Practical	NSP5409	Community Health Nursing-II (Practical)	5	-	135
Practical	NSP9410	Internship (Integrated Practice)	37	-	1110
<b>Total Credits and Hours</b>			<b>63/64<sup>#</sup>/65<sup>##</sup></b>	<b>270/300<sup>#</sup>/315<sup>##</sup></b>	<b>1605</b>
<b>*Internal Exam      ** Online Course</b>					
<b>QU-</b> Qualifying examination is a course without the benefit of a grade but is required for the completion of degree					

# Applicable ONLY for the students who will study an additional subject Leadership Development & Practice (CBCS) in fourth year

## Applicable ONLY for the students who will study an additional subject Advance Research Methodology(CBCS) in fourth year

**Table 4: General Elective Courses By UGC**

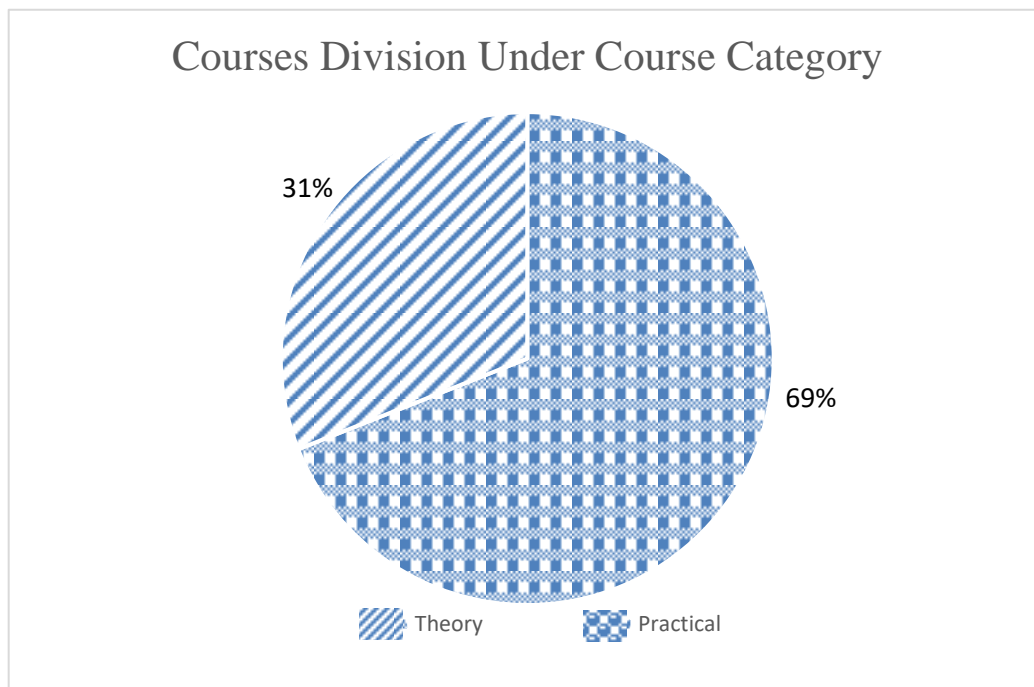
<b>GENERAL ELECTIVE COURSES BY UGC</b>		
<b>Title of courses</b>	<b>Course Code</b>	<b>Credits</b>
NCC (National Cadet Corps)	NC101	2
NSS (National Service Scheme)	NS101	2

As per UGC notification vide D.O No. 1-8 vide D.O.No.F.1-7/2011(CPP-II) dated 13th August, NCC and NSS as general elective two (2) credit course for all the students who enroll themselves as an NCC and NSS cadets. The students who will enroll in NCC/NSS courses in 1st year/ 2<sup>nd</sup> year of their study and fulfill all the requirements/complete hours would earn 2 extra credits and the grade. The same will be reflected in their DMC of the final year of students.

**Table 5: Mandatory Courses By UGC**

<b>MANDATORY COURSES BY UGC</b>			
<b>Title of courses</b>	<b>Hours</b>	<b>Credits</b>	<b>Year of Placement</b>
Environmental Sciences	40	1	2 <sup>nd</sup> year
Cyber Security	15	-	1 <sup>st</sup> year
Human Rights & Values	30	-	2 <sup>nd</sup> year

The 32 courses of B.Sc. Nursing program are divided into two course categories – Theory and Practical as shown in figure given below.



## 6. ASSESSMENT AND EVALUATION

Theory exam will be 100 marks, out of which 25 marks will be internal marks and 75 marks will be external. The evaluation will be continuous, and the weightage of various components is as given below:

**Table 6: Evaluation components for Theory Courses**

<b>For Theory Courses</b>	
<b>Internal assessment</b>	<b>Weightage</b>
Component 1: 2 Assignments + 3 Quiz	10
Component 2: 3 Sessional Tests	15
<b>Total internal assessment</b>	<b>25</b>
<b>External examination</b>	<b>75</b>
<b>Total marks</b>	<b>100</b>

There are three Sessional Tests (STs) for all theory papers and the average of best two is considered. The policy on the evaluation component – ‘Quizzes and Assignments’ is decided by the course coordinator and HOD and is announced separately for each course.

**Table 7: Evaluation Components for Practical Courses**

<b>For Practical Courses</b>	
<b>Internal assessment</b>	<b>Weightage</b>
Nursing Procedure Demonstrations	20
Nursing Care Plan	10
Clinical Presentations/ Case presentations/ Drug presentations/ health talk/ Clinical Performance/ Performance in the community area	20
Practical file/ Procedure book/ Dairy	10
Internal practical (procedure + viva voce)	40
<b>Total internal assessment</b>	<b>50%</b>
<b>Total external assessment</b>	<b>50%</b>
<b>Total marks</b>	<b>100</b>



The End Term examination for practical courses includes demonstration in hospital or community area and an oral examination (viva voce). Practical marks will comprise of 50% internal assessment and 50% external assessment marks.

The medium of examination is in English.

**Criteria to Pass Examination:**

1. A candidate has to pass in theory and practical exams separately.
2. If a candidate fails in either theory or practical, he/ she have to reappear in both.
3. To qualify the course, a student is required to secure a minimum of 50% marks in aggregate including the year-end examination and continuous evaluation. (i.e. both internal and external). Candidate must pass in internal and external examination in each of the papers separately. A candidate who secures less than of 50% of marks in a course/subject shall be deemed to have failed in that course/subject.
4. Minimum pass marks shall be 40% for English only and marks will be included in mark list. Similarly, for ‘Introduction to Computers’ college exam will be conducted and marks will be included in mark sheet/DMC.

**Table 8: SCHEME OF EXAMINATION FOR B.Sc. NURSING PROGRAM (2019-20)**

FIRST YEAR						
S.No.	Course	Course Code	Assessment			Total
			Hours	Internal	External	
Theory						
1.	Nursing Foundations	NSL 9101	3	25	75	100
2.	Anatomy and Physiology	NSL 4102	3	25	75	100
3.	Nutrition and Biochemistry	NSL 3103	3	25	75	100
4.	Psychology	NSL 2104	3	25	75	100
5.	Microbiology	NSL 2105	3	25	75	100
6.	English	CLW2101	2	50	-	50

7.	Introduction to Computer	CSL 2103	2	50	-	50
8.	Cyber Security	HUL2401	Online Certificate Course			
<b>Practical and Viva Voce</b>						
1	Nursing Foundations	NSP 9101		100	100	200
<b>SECOND YEAR</b>						
S.No.	Course	Course Code	Assessment			
			Hours	Internal	External	Total
	<b>Theory</b>					
9	Sociology	NSL 2206	3	25	75	100
10	Medical Surgical Nursing-I	NSL 7207	3	25	75	100
11	Pharmacology, Pathology, Genetics	NSL3208	3	25	75	100
12	Community Health Nursing-I	NSL 3209	3	25	75	100
13	Communication and Education Technology	NSL 3210	3	25	75	100
14	Environmental Sciences	ES101	2	50		50
15	Human Rights & Values	HUL3301	2	50		50
<b>Practical and Viva Voce</b>						
2	Medical Surgical Nursing-I	NSP 9202		100	100	200
3	Community Health Nursing-I	Qu-NSP5203	-	50	-	50
<b>THIRD YEAR</b>						
S.No.	Course		Assessment			

		Code	Assessment			
			Hours	Internal	External	Total
	<b>Theory</b>					
16	Medical- Surgical Nursing-II	NSL 4311	3	25	75	100
17	Child Health Nursing	NSL 3312	3	25	75	100
18	Mental Health Nursing	NSL 3313	3	25	75	100
19	Nursing Research & Statistics	NSL 2314	3	25	75	100
<b>Practical and Viva Voce</b>						
4	Medical- Surgical Nursing-II	NSP 9304		50	50	100
5	Child Health Nursing	NSP 9305		50	50	100
6	Mental Health Nursing	NSP 9306		50	50	100
7	Research Project	Qu- NSP2307	--	50	--	50
<b>FOURTH YEAR</b>						
S.No.	Course	Course Code	Assessment			
			Hours	Internal	External	Total
	<b>Theory</b>					
20	Midwifery & Obstetrical Nursing	NSL3415	3	25	75	100
21	Community Health Nursing- II	NSL 3416	3	25	75	100
22	Management of Nursing Services & Education	NSL3417	3	25	75	100

23	Leadership Development & Practice	LDP1418	2	50		50
24	Advance Research Methodology	ARM2419	2	50		50
<b>Practical and Viva Voce</b>						
8	Midwifery & Obstetrical Nursing	NSP9408		50	50	100
9	Community Health Nursing-II	NSP5409		50	50	100
10	Internship (Integrated Practice):* <ul style="list-style-type: none"> <li>• Community Health Nursing</li> <li>• Midwifery &amp; Obstetrical Nursing</li> <li>• Medical Surgical Nursing</li> <li>• Child Health Nursing</li> <li>• Mental Health Nursing</li> </ul>	NSP9410		100		100

**Note:** Qualifying examination is a course without the benefit of a grade, \* Internal Examination

**NOTE:**

- 1 Anatomy & Physiology question paper will consist of Section A- Anatomy of 37 Marks and Section B - Physiology of 38 Marks.
- 2 Nutrition and Biochemistry question paper will consist of Section A- Nutrition of 45 Marks and Section B - Biochemistry of 30 Marks.
- 3 Pharmacology, pathology and genetics question paper will consist of Section A -Pharmacology of 38 Marks, Section B - Pathology of 25 Marks and Section C- Genetics of 12 Marks.
- 4 Nursing research & Statistics question paper consists of Nursing research of 50 Marks and statistics 25 Marks.
- 5 English and Introduction to computer exam to be conducted as college exam and marks to be sent to examination department for inclusion in the marks list.
- 6 Department will not submit average internal marks of the test students more than 75% i.e. if 40 students are admitted in a course, the average score of the 40 students shall not exceed 75% of total marks.
- 7 Maximum number of candidates for practical examination should not exceed 20 per day in any circumstances.
- 8 All practical examination must be held in respective clinical area.
- 9 One internal and one external examiner should jointly conduct the practical examination for each student.
- 10 An examiner should be a lecturer or above in a college of Nursing with M.Sc. Nursing in concerned subject and minimum 3 years of teaching experience in the collegiate program. To be an examiner for nursing foundations course faculty having M.Sc. Nursing with any specialty shall be considered.
- 11 On completion of internship, internal assessment out of 100 marks should be sent to examination department for inclusion in the mark list.
- 12 Final year examination result shall be withheld till the candidate completes required attendance for practical and internship.

## 7. RULES FOR ATTENDANCE

As per Indian Nursing Council (INC), a candidate must have minimum of 80% attendance in theory and practical in each subject for appearing for examination. A candidate must have 100% attendance in each of the practical areas before award of degree. For completion of 80% attendance in theory and practical, students can have a privilege to avail their 10 Medical Leaves in case of any illness and 5 duty leaves for participation in any co-curricular activities in each Academic Year.

## 8. GRADING SYSTEM

### Grading Scheme and CGPA calculation:

Cumulative Grade Point Average (CGPA) calculated on a 10 point scale is used to describe the overall performance of a student. The Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) are calculated as;

$$GPA_i = \frac{\sum_{j=1}^n C_{ij}G_j}{\sum_{j=1}^n C_{ij}} \quad CGPA = \frac{\sum_{i=1}^N \left( GPA_i * \sum_{j=1}^n C_{ij} \right)}{\sum_{i=1}^N \left( \sum_{j=1}^n C_{ij} \right)}$$

Where n = number of subjects in the year; N = number of years;  $GPA_i$  = GPA for the  $i^{th}$  year;  $C_{ij}$  = number of credits for the  $j^{th}$  course in  $i^{th}$  year; and  $G_j$  = Grade point corresponding to the grade obtained in the  $j^{th}$  course.

**Table 9: Grade points for every grade are as follows**

Marks Range	Grade	Grade Point	Qualitative Meaning
80 - 100	O	10	Outstanding
70-79	A+	9	Excellent
65-69	A	8	Very Good
60-64	B+	7	Good
55-59	C	6	Average
50-54	P	5	Pass
0-49	F	0	Fail
	AB		Absent

**Table 10: Example to Understand the Calculation of GPA**

Courses in which student registered (Column - I)	Credits (Column -II)	Letter Grade (Column- III)	Grade Value (Column -IV)	Credit Value (Column -V)	Grade Points (Column -VI)
Course W	3	C	6	3 x 6	18
Course X	3	A	8	3 x 8	24
Course Y	3	A+	9	3 x 9	27
Course Z	2	A+	9	2 x 9	18
Total	11			Total	87

Suppose a student is registered in four courses ‘W’, ‘X’, ‘Y’ and ‘Z’ in a particular year as mentioned below in the Column - I of the table. Column - II in the table below depicts the number of credits, which those courses carried. At the end of the year, student was awarded with the grades as mentioned in Column – III in the table given below. Column – IV indicates the corresponding grade weight. Column – V and Column – VI indicate essentially the Credit value and Grade Points for every course completed by a student in that particular year.

Thus, the total GPA of the student would be =

$$GPA = \frac{\text{Total grade pts.}}{\text{Total no. of credits}} = \frac{87}{11} = 7.90$$

Suppose the GPA of the student in two successive years is 7.0 and 8.0 with respective course credits being 12 and 11, then the

$$CGPA = \frac{7 \times 12 + 8 \times 11}{12 + 11} = \frac{84 + 88}{23} = 7.48$$

## **9. PROMOTION AND REGISTRATION FOR NEXT YEAR**

The candidates who fail in more than one/two subjects can be promoted to next year. A candidate can take any number of attempts but with the condition that maximum time allowed is 8 years. However, all papers need to be cleared before appearing in 4<sup>th</sup> year's final exam.

A student will not be permitted to register in further year if:

- i. She has dues outstanding to the University, hostel or any recognized authority or body of the University, or
- ii. Her grade sheet in his/her immediately preceding term is withheld, or
- iii. She has been specially debarred or asked to stay away from that term.

Late registration may be granted in case a student fails to register on the stipulated date. Students failing to register on the specified day of registration will be allowed to register only after permission from Dean/Head of School and after paying the stipulated late fee. Any student who has not registered will not be allowed to attend classes.

## **10. MIGRATION CREDIT TRANSFER POLICY**

The following procedure will be followed for credit transfer for students under migration, studied in other universities or nursing colleges in India:

“The credits earned by the student from the other universities or nursing colleges in India shall be transferred as such. The Degree shall only be awarded to candidate subject to the condition that student earned the minimum no. of credit defined by Academic Regulation/APG of the Programme run by the Chitkara University.”

## **11. ELIGIBILITY FOR AWARD OF DEGREE**

1. A candidate must have 100% attendance in each of the practical areas before award of degree.
2. A candidate Cleared all Courses prescribed for the program
3. Candidate should obtain the minimum CGPA 5 in each subject for the award of degree in the UG



## 12. PROGRAM OVERVIEW

### 1<sup>st</sup> Year Courses

Course Code	Name of Course	Hours	Credits
NSL 9101	Nursing Foundations	465	16

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Describe the concepts of health, health-illness continuum & health care delivery system

**CLO 2:** Describe the concepts, theories and models of nursing practice

**CLO 3:** Implement the theoretical knowledge in clinical settings and prepare and implement nursing care plan for assigned patient based on nursing process.

**CLO 4:** Perform health assessment following proper sequence and provide basic nursing care to patient using universal precautions with proper documentation to build up employability.

**CLO 5:** Abide by the code of ethics and professional conduct.

**CLO 6:** Communicate effectively with patient, families and health care team.

### **Course Content**

Introduction: Concept of health: health – illness continuum, factors influencing health, causes and risk factors for developing illness, body defences: immunity and immunization, illness and illness behaviour, impact of illness on patient and family, health care service: health promotion and prevention primary care, diagnosis, treatment, rehabilitation and continuing care, health care teams, type of health care agencies, hospitals: types, organization and functions, health promotion and levels of disease prevention, primary health care and its delivery: role of nurse, Nursing as a profession: Definition and Characteristics of a profession, nursing: definition, concepts, philosophy, objectives, characteristics, nature and scope of nursing practice, functions of nurse, qualities of a nurse, categories of nursing personnel, nursing as a profession., history of nursing in India, values: definition, types, values clarification and values in professional nursing: caring and advocacy, ethics: definition and ethical principles, code of ethics and professional conduct for nurses, Hospital admission and discharge: Admission to the hospital, unit and its preparation admission bed, admission procedure, special considerations, medico-legal issues, roles and responsibilities of the nurse, discharge from the hospital, types: planned discharge, lama and abscond, referrals and

transfers, discharge planning, discharge procedure, special considerations, medico-legal issue, roles and responsibilities of the nurse, care of the unit after discharge, Communication and Nurse patient relationship: Communication: Levels, Elements, Types, Modes, Process, Factors influencing Communication, methods of effective communication, attending skills, rapport building skills, empathy skills, barriers to effective communication, helping relationships: dimensions of helping relationships, phases of a helping relationship, communication effectively with patient, families and team members and maintain effective human relations with special reference to communicating with vulnerable group (children women, physically and mentally challenged and elderly), patient teaching: importance, purpose, process, role of nurse and integrating teaching in nursing process. The Nursing Process: Critical Thinking and Nursing judgment, critical thinking: thinking and learning, competencies, attitudes for critical thinking, level of critical thinking in nursing, nursing process overview: application in practice, nursing process format: INC, current format, assessment, collection of data: types, sources, methods, formulating nursing judgment: data interpretation, nursing diagnosis: identification of client problems, nursing diagnosis statement, difference between medical and nursing diagnosis, planning: establishing priorities, establishing goals and expected outcomes, selection of interventions: protocols and standing orders, writing the nursing care plan, implementing: implementing the plan of care, evaluation: outcome of care, review and modify, documentation and reporting, Documentation and Reporting: Documentation: Purposes of Recording and reporting, communication within the health care team, types of records; ward records, medical / nursing records, common record-keeping forms, computerized documentation, guidelines for reporting: factual basis, accuracy, completeness, current issue, organization, confidentiality, methods of recording, reporting change of shift reports: transfer reports, incident reports, minimizing legal Liability through effective record keeping, Vital signs: Guidelines for taking vital signs: body temperature : physiology, regulation, factors affecting body temperature, assessment of body temperature: sites, equipment's and technique, special considerations, temperature alterations: hyperthermia, heatstroke, hypothermia, hot and cold applications, pulse: physiology and regulation, characteristics of the pulse, factors affecting pulse, assessment of pulse: site, location, equipments and technique, special considerations, alterations in pulse, respiration: physiology and regulation, characteristics of the respiration, factors affecting respiration, assessment of respirations: technique, special considerations, alterations in respiration, blood pressure: physiology and regulation, characteristics of the blood pressure, factors affecting blood

pressure, assessment of blood pressure sites, equipments and technique, special considerations, alterations in blood pressure, recording of vital signs, Health assessment: Purposes, process of health assessment, health history, physical examination, methods- inspection, palpation, percussion, auscultation, olfaction, preparation for examination: patient and unit, general assessment, recording of health assessment, assessment of each body system, Machinery, Equipment and lines: Type: disposables and reusable's- linen, rubber goods, glass ware, metal, plastics, introduction: indent, maintenance, inventory, Meeting needs of patient: Basic needs (Activities of daily living), providing safe and clean environment: physical environment, temperature, humidity, noise, ventilation, light, odors, pests control, reduction of physical hazards: fire, accident, safety devices: restraints, side rails, airways, trapeze, etc., role of nurse in providing safe and clean environment, hygiene: factors influencing hygienic practice, hygienic care: care of the skin-bath and pressure points, feet and nail, oral cavity, hair care, eyes, ears, and nose, assessment, principles, types, equipments, procedure, special considerations, patient environment: room equipment and linen, making patient beds, types of beds and bed making, comfort: - factors including comfort. comfort devices, physiological needs: sleep and rest: physiology of sleep, factors affecting sleep, promoting rest and sleep, sleep disorders, nutrition: importance, factors affecting nutritional needs, assessment of nutritional needs: variables, meeting nutritional needs: principles, equipments, procedure and special considerations, oral, enteral: naso/orogastric, gastrostomy parenteral: urinary elimination, review of physiology of urine elimination composition and characteristics of urine, factors influencing urination, alteration in urinary, elimination, types and collection of urine specimen: observation, urine testing, facilitating urine elimination: assessment, types, equipments, procedures and special considerations, providing urinal/bed pan, condom drainage, perineal care, catheterization, care of urinary drainage, care of urinary diversions, bladder irrigation, bowel elimination, review of physiology of bowel elimination, composition and characteristics of faces, factors affecting bowel elimination, alteration in bowl elimination, types and collection of specimens of faces: observation, facilitating bowel elimination, procedures and special considerations, passing of flatus tube, enemas, suppository, sitz bath, bowel wash, care of ostomies, mobility and immobility, principal of body mechanics, maintenance of normal body, alignment and mobility, factor affecting body alignment and mobility, hazards associated with immobility, alteration in body alignment and mobility, nursing interventions for impaired body alignment and, mobility: assessment, types, devices used, method and special considerations rehabilitation aspects,

range of motion exercises, maintaining body alignment: positions, moving, lifting, transferring, walking, restraints, oxygenation, review of cardiovascular and respiratory physiology, factors affecting oxygenation, alterations in oxygenation, nursing interventions in oxygenation: assessment, types of equipment used, procedure and special considerations, maintenance of patent airway, oxygen administration, suction, inhalations: dry and moist postural drainage, care of chest drainage, pulse-oximetry, CPR-basic life support, fluid, electrolyte, and acid- base balances, review of physiological regulation of fluid, electrolyte, and acid-base balances, factors affecting fluid, electrolyte, and acid base balances, alterations in fluid, electrolyte, and acid-base balances, nursing interventions in fluid, electrolyte, and acid, base imbalances: assessment, types, and equipment, procedure and special considerations, measuring fluid intake and output, correcting fluid, electrolyte imbalance: replacement of fluids: oral and parenteral – veno puncture, regulating iv flow rates, changing iv solutions and tubing, changing iv dressing, administering blood transfusion, restriction of fluids, psychosocial needs, concepts of cultural diversity, stress and adaptation, self – concept, sexuality, spiritual health, coping with loss, death and grieving, assessment of psychosocial needs, nursing intervention for psychosocial needs, assist with coping and adaptation, creating therapeutic environment, recreational and diversional therapies, Infection control in Clinical settings: Infection control, nature of infection, chain of infection transmission, defences against infection: natural and acquired, hospital acquired infection (nosocomial infection), concept of asepsis: medical asepsis, and surgical asepsis, isolation precautions (barrier nursing): hand washing: simple, hand antisepsis (scrub), isolation: source and protective, personal protecting equipments: types, uses and technique of wearing and removing, decontamination of equipment and unit, transportation of infected patients, standard safety precautions (universal precautions), transmission based precautions, biomedical waste management: importance, types of hospital waste, hazards associated with waste, decontamination of hospital waste, segregation and Transportation and disposal, Admission of Medications: General principles/considerations, purpose of medication, principles: 5 rights, special considerations, prescriptions, safety in administering medications and medication errors, drugs forms, routes of administration, storage and maintenance of drugs and nurses, responsibility, broad classification of drugs, therapeutic effect, side effects, toxic effects, idiosyncratic reactions, idiosyncratic reactions, allergic, reactions, drug tolerance, drug interactions, factors influencing drug actions, systems of drug measurement: metric system, apothecary system, household measurements, solutions, converting measurements, units:

conversion within one system, conversion between system, dosage calculation, terminologies and abbreviations used in prescriptions of medication, oral drugs administration: oral, sublingual and buccal: equipment, procedure, parenteral, general principles: decontamination and disposal of syringes, needles, type of parenteral therapies, types of syringes, needles,, canula, and infusion sets, protection from needlestick injuries: giving medications with a safety syringe, routes of parenteral therapies, intradermal: purpose, site, equipment, procedure, special considerations, subcutaneous: purpose, site, equipment, procedure, special considerations, intramuscular: purpose, site, equipment, procedure, special considerations, intra venous: purpose, site, equipment, site, equipment procedure, special considerations, advanced techniques: epidural, intrathecal, intraosseous, intraperitoneal, intrapleural, intraarterial, role of nurses, topical administration: purposes, site, equipment, procedure, special considerations for: application to skin, application to mucous membrane, direct application of liquids-gargle and swabbing the throat, insertion of drug into body cavity: suppository/ medicated packing in rectum/vagina, instillations: ear, eye, nasal, bladder, vaginal and rectal, irrigations: eye, ear, bladder, vaginal and rectal, spraying: nose and throat, inhalation, nasal, oral, endotracheal / tracheal (steam, oxygen and medications) - purposes, types, equipment, procedure, special considerations, recording and reporting of medications administered, Meeting needs of perioperative patients: Definition and concept of perioperative Nursing, preoperative phase, preparation of patient for surgery, intraoperative, operation theatre set up and environment, role of nurse, postoperative phase, recovery unit, post operative unit, postoperative care, wounds: types, classifications, wound healing process, factors affecting wound, complications of wound healing, surgical asepsis, care of the wound: types, equipment, procedure and special considerations, dressing, suture care, care of drawings, application of bandages, binders, Splints & Slings Heat and Cold Therapy, Meeting special needs of the patient: Care of patients having alteration in: temperature (hyper and hypothermia): types, assessment, management, sensorium (unconsciousness): assessment, management, urinary elimination (retention and incontinence) assessment, management, functioning of sensory organs: (visual & hearing impairment), assessment of self-care ability, communication methods and special considerations, mobility (physically challenged, cast), assessment of self-care ability: communication methods and special considerations, mental state (mentally challenged), assessment of self-care ability, communication methods and special considerations, respiration (distress): types, assessment, comfort-(pain)-nature, types, factors influencing pain, coping assessment management, treatments

related to gastrointestinal system, naso-gastric suction, gastric irrigation, gastric analysis, Care of terminally ill patient: Concepts of loss, grief, grieving process, signs of clinical death, care of dying patient: special considerations, advance directives: euthanasia, will dying declaration, organ donation etc., medico-legal issues, care of dead body: equipment, procedure and care of unit, autopsy, embalming, Professional Nursing concepts and practices: Conceptual and theoretical models of nursing practice. Introduction to models, health belief model, health promotion model etc., introduction to Theories in Nursing; Peplau's Henderson's, Orem's Neuman's, Rogar's and Roy's, Linking theories with nursing process.

### **Recommended Books**

1. Potter A. P. & Anne G. P. (2009). *Fundamentals of Nursing Concepts-Process and Practice*. New Delhi, India: Mosby.
2. Christensen B. L. & Kockrow O. E. (2011). *Foundations of Nursing*. New Delhi, India: Mosby Elsevier.
3. Taylor C. & Lillis C. (2008). *Fundamental of nursing: The art and science of nursing care*. Philadelphia, United states: Lippincott Williams and Wilkins.
4. Nancy Sr. (2019). *Principles and Practices of Nursing*. (7<sup>th</sup> ed.). New Delhi, India: N.R. Publishing House.
5. Nissanka R. (2016). *Comprehensive Textbook of Foundation of Nursing*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.

Course Code	Name of Course	Hours	Credits
NSL4102	Anatomy and Physiology	120	4

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Explain the general and microscopic structure of each system of the body

**CLO 2:** Describe the anatomical structure, organization and functions of various organ systems of human body

**CLO 3:** Identify relative anatomic positions of the major body organs and relative contribution of each organ system towards maintenance of homeostasis.

**CLO 4:** Explore the effects of alterations in structures and functions

**CLO 5:** Apply knowledge of anatomic structures and physiological basis to analyze clinical situations and therapeutic applications to strengthen up employability

### **Anatomy: 60 Hours**

#### **Course Content**

Introduction to Anatomical terms organizations of the human body: Human cell structure, tissues-definition, types, characteristics, classification, location, functions and formation, membranes and glands-classification and structure, alterations in disease, applications and implications in nursing, The Skeletal System: Bones-types, structure, axial & appendicular skeleton, bone formation and growth, description of bones, joints-classifications and structure, alterations in disease, applications and implications in nursing, The Muscular System: Types and structure of muscles, muscle groups, alterations in disease, applications and implications in nursing, The Nervous system: Structure of neuroglial cells & neurons, somatic nervous system, structure of brain, spinal cord, cranial nerves, spinal nerves, peripheral nerves, autonomic nervous system- sympathetic, parasympathetic structure, location, alterations in disease, applications and implication in nursing, The Sensory Organs: Structure of skin, eye, ear nose, tongue, (auditory and olfactory apparatus), alterations in disease, application and implications in nursing, Circulatory and lymphatic system: Blood microscopic structure, structure of heart, structure of blood vessels – arterial and venous system, circulation: systemic, pulmonary, coronary, lymphatic vessels and lymph, lymphatic tissues, thymus gland, lymph nodes, spleen, lymphatic nodules, alterations in diseases, applications and

implications in nursing, The Respiratory System: Structure of the organs of respiration, muscles of respiration: intercostals and diaphragm, alterations in disease, applications and implications in nursing, The Digestive System: Structure of alimentary tract and accessory organs of digestion, alterations in disease, applications and implications in nursing, The Excretory system (Urinary): Structure of organs in Urinary System: Kidney, ureters, urinary bladder, urethra, structure of skin, alterations in disease, applications and implications in nursing, The Endocrine system: Structure of Pituitary, Pancreas, thyroid, parathyroid, thymus and adrenal glands, alterations in disease, applications and implications in nursing, The Reproductive system including breast: Structure of female reproductive organs, structure of male reproductive, structure of breast, alterations in disease, applications and implications in nursing.

### **Physiology: 60 Hours**

#### **Course Content**

Cell Physiology: Tissues-formation, repair, membranes and glands-functions, alterations in disease, applications and implications in nursing, Skeletal System: Bones formations & growth, bone functions and movements of bones of axial and appendicular skeleton, bone healing, joints- and joint movement, alterations in disease, applications and implications in nursing, Muscular System: Muscle movements Muscle tone, physiology of muscle contraction, levels and maintenance of posture, alterations in disease, applications and implications in nursing, Nervous System: Functions of neuralgia & neurons, stimulus and nerve impulse: definitions and mechanism, functions of brain, spinal cord, cranial and spinal nerves, cerebrospinal fluid-composition, circulation, and function, reflex arc, reflex action, and reflexes, autonomic functions- pain: somatic, visceral, and referred, autonomic learning and biofeedback, alterations in disease, applications and implications in nursing, Circulatory System: Blood formation, composition, blood groups, blood coagulation, haemoglobin: structure, synthesis & breakdown, variation of molecules, estimations, functions of heart, conduction, cardiac cycle, circulation-principles, control, factors influencing blood pressure and pulse, alterations in disease, applications and implications in nursing, The Respiratory System: Functions of respiratory organs, physiology of respiration, pulmonary ventilation, volume, mechanics of respiration, gaseous exchange in lungs, carriage of oxygen & carbon-dioxide, exchange of gases in tissues, regulation of respiration, alterations in disease, applications and implications in nursing, The Digestive System: Functions of organs of digestive tract, movement of alimentary tract, digestion in mouth, stomach, small intestines, large intestines, absorption of food,



functions of liver, gall bladder & pancreas, metabolism of carbohydrates, protein and fat, The Excretory System: Function of kidneys, ureters, urinary bladder & urethra, composition of urine, mechanism of urine formation, functions of skin, regulation of body temperature, fluid and electrolyte, alterations in disease, applications and implications in nursing, The Sensory Organs: Functions of skin, eye, ear, nose, tongue, alterations in disease, applications and implications in nursing, The Endocrine system: Functions of Pituitary, pineal body, thymus, thyroid, parathyroid, pancreas, Suprarenal, Placenta and ovaries & Testes, alterations in disease, applications and implications in nursing, The Reproductive system: Reproduction of cells-DNA, Mitosis, Mitosis, Meiosis, spermatogenesis, oogenesis, functions of female reproductive organs; functions of breast, female sexual cycle, introduction to embryology, functions of male reproductive organs, male function in reproduction, male fertility system, alterations in disease, applications and implications in nursing, Lymphatic and Immunological System: Circulation of lymph, Immunity, formation of T-cells and B cells, types of Immune response, antigens, cytokines, antibodies.

### **Recommended Books**

1. Waugh A. & Grant A. (2010). *Ross and Wilson Anatomy and physiology in health sciences*. New Delhi, India: Elsevier.
2. Thibodeau A.G. & Patton. K. T. (2006). *Anthony's text book of anatomy and physiology*. New York, USA: Elsevier.
3. Marieb E. N. (2012). *Essentials of human anatomy and physiology*. Delhi, India: Pearsons Publishers.
4. Chourasia B.D. (2015). *Human anatomy*. (5<sup>th</sup> ed.). (Vol.I,II,II). New Delhi, India: CBS Publishers.
5. Tortora G. J. (2014). *Principles of anatomy and physiology*. (14<sup>th</sup> ed.).New Delhi, India: Wiley Publishers.

Course Code	Name of Course	Hours	Credits
NSL3103	Nutrition and Biochemistry	90	3

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Describe the principle, essentials of nutrition & its relationship to health

**CLO 2** Identify nutritional needs of different age groups and plan a balanced diet for them.

**CLO 3:** Explain digestion, absorption, metabolism of carbohydrates, proteins, fats, vitamins and minerals

**CLO 4:** Apply nutrient and dietary modifications in caring patients

**CLO 5:** Prepare meals using different methods and cookery rules to hone the skills

### **Nutrition: 60 Hours**

#### **Course Content**

Introduction; Nutrition: history, concepts, role of nutrition in maintaining health, nutritional problems in India. national nutritional policy, factors affecting food and nutrition: socio-economic, cultural, tradition, production, system of distribution, life style and food habits etc, role of food and its medicinal value, classification of foods, food standards, elements of nutrition: macro anti micro, calorie, BMR, Carbohydrates: Classification, caloric value, recommended daily allowances, dietary sources, functions, digestion, absorption and storage, metabolism of carbohydrates, malnutrition: deficiencies and over consumption, Fats: Classification, caloric value, recommended daily allowances, dietary sources, functions, digestion, absorption and storage, metabolism, malnutrition: deficiencies and over consumption, Proteins: Classification, caloric value, recommended daily allowances, dietary sources, functions, digestion, absorption and storage, metabolism, malnutrition: deficiencies and over consumption, Energy: Unit of Energy-Kcal, energy requirements of different categories of people, measurements of energy, body mass index (BMI) and basic metabolism, basal metabolic rate (BMR) - determination and factors affecting it, Vitamins: Classification, recommended daily allowances, dietary sources, functions, absorption, synthesis, metabolism storage and excretion, deficiencies, hypervitaminosis, Minerals: Classification, recommended daily allowances, dietary sources, functions, absorption, synthesis, metabolism storage and excretion, deficiencies, over consumption and toxicity, Water & electrolytes: Water: Daily requirement, regulation of water metabolism, and distribution of body water, electrolytes: types, sources,

composition of body fluids. Maintenance of fluid & electrolyte balance, over hydration, dehydration and water intoxication, electrolyte imbalances, Cookery rules and preservation of nutrients: Principal, methods of cooking and serving, preservation of nutrients, safe food handling toxicity, storage of food, food preservation, food additives and its principles, prevention of food adulteration act, food standards, preparation of simple beverages and different types of food, Balanced diet: Elements, food groups, recommended daily allowance, nutritive value of foods, calculation of balanced diet for different categories of people, planning menu, budgeting of food, introduction to therapeutic diets: naturopathy diet, Role of nurse in nutritional programmes: National programs related to nutrition, vitamin a deficiency programme, National iodine deficiency disorder programme, Mid-day meal pregame, Integrated child development scheme, National and International agencies working towards food/nutrition, NIPCCD, CARE, FAO, NIN, CFTRI (Central food technology and research institute) etc, assessment of nutritional status, nutrition education and role of nurse.

### **Recommended Books**

1. Venkatraman S. & Dandekar P. S. (2017). *Nutrition and Biochemistry for Nurses*. (2<sup>nd</sup> ed.). New Delhi, India: Elsevier.
2. Sharma M. (2017). *Textbook of Nutrition for B.Sc. Nursing Students*. (1<sup>st</sup> ed.). New Delhi, India: CBS Publishers and Distributors.
3. Singh R. (2012). *Food & Nutrition for Nurses*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
4. Sohi D. (2018). *A Comprehensive Textbook of Nutrition and Therapeutic Diets*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
5. John S. & Devaselvam J. (2016). *Essentials of Nutrition and Dietetics for Nursing*. (2<sup>nd</sup> ed.). Neitherland: Wolter Kluwer.

## **Biochemistry: 30 Hours**

### **Course Content**

Introduction: Definition and significance in nursing, review of structure, composition and functions of cell, prokaryote and eukaryote cell, microscopy, Structure and functions of Cell membrane: Fluid mosaic model, tight junction, Cytoskeleton, transport mechanism, diffusion, osmosis, filtration, active channel, sodium pump, acid base balance-maintenance & diagnostic tests- ph buffers, Composition and metabolism of Carbohydrates: Type, structure, composition and use: Monosaccharide's, Disaccharides, Polysaccharides, Oligosaccharides, metabolism pathways of glucose: glycolysis, gluconeogenesis: cori's cycle, tricarboxylic acid cycle, glycogenolysis, pentose phosphate pathways (hexose mono phosphate), regulation of blood glucose level investigations and their interpretations, Composition and metabolism of Lipids: Types, structure, composition and uses of fatty acids, nomenclature, roles and prostaglandins, metabolism of fatty acid: breakdown, synthesis, metabolism of triglycerides, cholesterol metabolism, biosynthesis and its regulation, bile salts and bilirubin, vitamin D, steroid hormones, lipoproteins and their functions: VLDLS-IDLS, LDLS AND HDLS, transport of lipids, atherosclerosis, investigations and their interpretations, Composition and metabolism of Amino acids and Proteins: Types, structure, composition and uses of Amino acids and Proteins, metabolism of amino acids and protein, protein synthesis, targeting and glycosylation, chromatography, electrophoresis, sequencing, metabolism of nitrogen, fixation and assimilation, urea cycle, hemes and chlorophylls, enzymes and co-enzymes: classifications, properties, control, investigations and their interpretations, Composition of Vitamins and mineral : Structure, classification, properties, absorption, storage & transportation, normal concentration, investigations and their interpretations, Immunochemistry: Immune response, structure and classification of immunoglobins, mechanism of antibody production, antigen: HLA typing, free radical and antioxidants. Specialized protein: collagen, elastin, keratin, myosin, lens protein, electrophoresis and quantitative determination of immunoglobins –ELISA etc, investigations and their interpretations

### **Recommended Books**

1. Jacob A. (2004). *Biochemistry for Nurses*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
2. Singla S. (2012). *Medical Biochemistry for Nurses*. New Delhi, India: Kumar Book Depot.
3. Sharma K. M. (2012). *Biochemistry for Nurses*. New Delhi, India: Kumar Book Depot.

4. Shantaram M. (2011). *Biochemistry & Nutrition for Bsc Nursing*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
5. Nayak S. (2015). *Handbook of Biochemistry and Nutrition*. (3<sup>rd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.

Course Code	Name of Course	Hours	Credits
NSL2104	Psychology	60	2

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Identify the importance of psychology in individual and professional life.

**CLO 2:** Develop understanding of the biological and psychological basis of human behaviour.

**CLO 3:** Identify the cognitive and affective needs of clients.

**CLO 4:** Integrate the principles of motivation and emotion in performing the role of nurse in caring for emotionally sick client.

**CLO 5:** Apply the knowledge of self-empowerment in workplace, society and personal life to build up employability

### Course Content

Introduction: History and origin of science of psychology, definitions & scope of psychology, relevance to nursing, methods of psychology, Biology of behaviour: Body mind relationship modulation process in health and illness, genetics and behaviour: heredity and environment, brain and behavior: nervous system, neurons and synapse, association cortex, right and left hemispheres, psychology of sensations, muscular and glandular controls of behavior, nature of behavior of an organism / integrated response, Cognitive process: Attention: types, determinants duration & degree, alterations, perception: meaning principles, factors affecting errors, learning: nature, types nature facture influencing development theories and methods of memorizing and forgetting, memory: meaning, types, nature, factors influencing, development theories and methods of memorizing and forgetting, thinking: types and levels, stages of development, relationship with language and communication, intelligence: meaning classification, uses, theories, aptitude: concept, types, individual differences and variability, psychometric assessments of cognitive processes, alterations in cognitive processes, applications of cognitive process in nursing, Motivation and Emotional Processes: Motivation: meaning, concepts, types, theories, motives and behavior, conflict resolution, emotions & stress, emotion: definition components, changes in emotions, theories, emotional adjustments, emotions in health and illness, stress: stressors, cycle, effect, adaptation & coping, attitude: meaning, nature, development, factors affecting, behavior and attitudes, attitudinal change, psychometric assessments of emotions and attitudes, alterations in

emotions, applications, Personality: Definitions, topography, types, theories, psychometric assessments of personality, alterations in personality, applications, Developmental Psychology: Psychology of people at different ages from infancy to old age, psychology of vulnerable individuals- challenged, women, sick, etc, psychology of groups, Mental hygiene and mental Health: Concepts of mental hygiene and mental health, characteristics of mentally healthy person, warning signs of poor mental health, primitive and preventive mental health-strategies and services, ego defence mechanisms and implications, personal and social adjustments, guidance and counselling, role of nurses, Psychological assessment & tests Types, developments, characteristics and role of nurse interpretations and role of nurse in psychological assessment.

### **Recommended Books**

1. Sreevani R. (2015). *Psychology for nurses: As Per INC Syllabus*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Publishers.
2. Maheshwari S.K. & Kaur A. (2010). *Applied Psychology for Nursing for BSc Nursing*. (1<sup>st</sup> ed.). New Delhi, India: Vision Books Publisher.
3. Ghee A. (2016). *Psychology on Applied to Nursing, Livingstone Nursing texts*. (1<sup>st</sup> ed.). Churchill Livingstone Publishers, 1<sup>st</sup> edition
4. Anthikad J. (2014). *Psychology for Graduate Nurses*. (5<sup>th</sup> ed.). New Delhi, India: Jaypee Publishers.
5. Kuppuswamy B. & Prabhu P.H. (2014). *General Psychology*. (1<sup>st</sup> ed.). Chandigarh, India: Asia Publishing Home.

Course Code	Name of Course	Hours	Credits
NSL2105	Microbiology	60	2

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Identify the ubiquity and diversity of microorganisms in the human body and the environment.

**CLO 2:** Classify and explain the morphology and growth of microbes.

**CLO 3:** Identify various types of microorganisms.

**CLO 4:** Explore mechanisms by which microorganisms cause disease.

**CLO 5:** Apply the principles of preparation and use of vaccines in immunization to enhance employability skills

### Course Content

Introduction: Importance and relevance to nursing, historical perspective, concepts and terminology, principles of microbiology, General characteristics of Microbes: Structure and classification of microbes, morphological types, size and form of bacteria, motility, colonization, growth and nutrition of microbes, temperature, moisture, blood and body fluids, laboratory method for identification of micro- organisms, staining techniques, gram staining, acid fast staining, hanging drop preparation, culture; various medias, Infection control: Infection: Sources, portals of entry and exit, transmission, asepsis, disinfection; types and methods, sterilization; types and methods, chemotherapy and antibiotics, standard safety measures, biomedical waste management, role of nurse, hospital acquired infection, hospital infection control programme, protocols, collections of samples, preparation of report and status of rate of infection in the unit/hospital, nurse's accountability, continuing education etc, Pathogenic organisms: Cocci-gram positive and gram negative, bacilli gram positive and gram negative, spirochete, mycoplasma, rickettsia, Chlamydia, viruses, fungi- Superficial and deep mycoses, parasites, rodents & vectors Characteristics, Source, portal of entry, transmission of infection, identification of disease producing micro-organisms, collection, handling and transportation of various specimens, Immunity: Immunity –Types, classification, antigen and antibody reaction, hypersensitivity – skin test, serological tests, immune prophylaxis: vaccines & sera – types & classification, cold chain, immunization for various diseases, immunization schedule.



### **Recommended Books**

1. Kumar S. (2015). *Textbook of Microbiology for BSc Nursing*. (1<sup>st</sup> ed.). Delhi, India: Jaypee Publishers.
2. Bhatia R. & Ichhpujani R.L. *Microbiology for Nurses*. (1<sup>st</sup> ed.). Delhi, India: Jaypee Publishers,
3. Nagoba B. S. (2016). *Microbiology for Nurses*. (2<sup>nd</sup> ed.). Gurugram, India: Wolters Kluwer.
4. Gupte S. (2018). *The Short Textbook of Medical Microbiology for Nurses*. (2<sup>nd</sup> ed.). Delhi, India: Jaypee Publishers.
5. Baveja C.P. (2018). *Textbook of Microbiology*. (2<sup>nd</sup> ed.). New Delhi, India: Arya Publication.

Course Code	Name of Course	Hours	Credits
CLW2101	English	60	2

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Apply the concepts and principles of English Language use in professional development to enhance the employability

**CLO 2:** Converse effectively, appropriately and timely within the given context and the individual or team they are communicating with either face to face or by other means.

**CLO 3:** Read, interpret and comprehend content in text, flow sheet, framework, figures, tables, reports, anecdotes etc.

**CLO 4:** Analyze the situation and apply critical thinking strategies to develop skills of entrepreneurship.

**CLO 5:** Enhance expressions through writing skills.

### Course Content

Review of Grammar. Remedial study of Grammar, Phonetics, Building vocabulary, Public Speaking, Read and comprehend prescribed course books, Various forms of composition.- Letter writing., Note taking., Precise writing., Nurses' notes, Anecdotal records, Diary writing., Reports on health problems etc., Resume /CV., Spoken English.- Oral report., Discussion, Debate, Telephonic conversation, Listening Comprehension: Media, audio, video, speeches etc.

### Recommended Books

1. Kumar P. S. (2010). *English for Nursing Students*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
2. Lohumi S. & Lohumi R. (2019). *Communicative English for Nurses*. (3<sup>rd</sup> ed.). New Delhi, India: Elsevier.
3. Padmavathi M. (2016). *Facilitating Effective Communication in English for Nurses*. (2<sup>nd</sup> ed.). Bangalore, India: Emmess.
4. David T. M. (2018). *English for Professional Nursing*. (2<sup>nd</sup> ed.). Neitherland: Wolter Kluwer.
5. Jane Straus, Lester Kaufman, Tom Stern. (2014). *The Blue book of Grammar and Punctuation*. (11<sup>th</sup> ed): John Wiley & Sons.

Course Code	Name of Course	Hours	Credits
CSL2103	Introduction to Computers	45	2

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Develop a basic understanding of computer application in patient care and nursing practice.

**CLO 2:** Utilize the functionalities of Nursing Information System (NIS) system in nursing.

**CLO 3:** Demonstrate the skills of using data in management of health care.

**CLO 4:** Apply the knowledge of the principles of digital ethical and legal issues in clinical practice.

**CLO 5:** Utilize evidence-based practices in informatics and technology for providing quality patient care.

### Course Content

Introduction: Concepts of computer, hardware and software; trends and technology, application of computer in nursing and its uses, Disk-Operating System (DOS), Windows (all versions), MS-Word, MS-Excel with pictorial presentation, MS-Access, MS-Power point, Multimedia: types & uses, Computer aided teaching & testing, Use of Internet and e-mail, Statistical packages: types and their features, Hospital Management System: Types and uses.

### Recommended Books

1. Bhaskara R. (2014). *Nursing Informatics*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
2. Susan A. (2017). *Applied Clinical Informatics for Nurses* (2<sup>nd</sup> ed.). Massachusetts, United States: Jones & Bartlett Learning.
3. Mandil H. S., Ball M., Kathryn J. H. & Newbold K. S. (2013). *Nursing Informatics: Where Caring and Technology Meet*. (2<sup>nd</sup> ed.). New York, United States: Springer Publisher.
4. Gerdin J., Talberg M. & Wainwright P. (1997). *Nursing Informatics '97: The Impact of Nursing Knowledge on Health Care Informatics*. (1<sup>st</sup> ed.). Amsterdam, Netherlands: IOS Press Publication.
5. Sewell J. (2013). *Informatics and Nursing: Opportunities and Challenges*. (4<sup>th</sup> ed.). Philadelphia, United states: Lippincott Williams and Wilkins.

Course Code	Name of Course	Hours	Credits
HUL2401	Cyber Security	15	0

### Course Learning Outcomes

**CLO 1:** Describe need of cyber security

**CLO 2:** Understand different types of cyber crime

**CLO 3:** Explain the legal perspective on cyber crime

**CLO 4:** Utilize technical knowledge and skills needed to protect and defend computer systems and networks

**CLO 5:** Implement and monitor cyber security mechanism for protecting information technology assets required to enhance employability skills

### Course Content

The need for cyberspace, concepts and techniques, protecting data and privacy, threat landscape, improving password security, malware basics, network and communication, standards of network, cryptography, network security, analysing and managing security risk, protecting the organization.

### Recommended Books

1. Bhushan M. (2017). *Fundamental of Cyber Security*. (1<sup>st</sup> ed.). New Delhi, India: BPB Publications.
2. Menon R. (2018). *Cyber Security and Cyber Laws*. (1<sup>st</sup> ed.). New Delhi, India: Wiley Publishers.
3. Godbole N.& Belapure S. (2011). *Cyber Security*. (1<sup>st</sup> ed.). New Delhi, India: Wiley Publication.
4. Shinde A. *Introduction to cyber security*. (1<sup>st</sup> ed.). New Delhi, India: Notion Publishers.
5. Khatana R. *Introduction to cyber security*. (2<sup>nd</sup> ed.) New Delhi, India: Notion Publishers.

Course Code	Name of Course	Hours	Credits
NSP9101	Nursing Foundations (Practical)	450	15

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Perform the various activities starting from admission till the discharge of the patient

**CLO 2:** Collect complete history and perform health assessment to each body system

**CLO 3:** Construct and implement nursing care plan for assigned patient based on nursing process.

**CLO 4:** Provide basic nursing care and perform the nursing procedures using universal precautions with proper sequence and documentation to enhance clinical skills in various health care settings

**CLO 5:** Communicate effectively with patient, families and health care team.

### Course Content

Skills: Hospital admission and discharge (III): admission, prepare unit for new patient, prepare admission bed, performs admission procedure, new patient, transfer in, prepare patient records, discharge/transfer out, gives discharge counselling, perform discharge procedure (planned discharge, lama and abscond, referrals and transfers), prepare records of discharge /transfer, dismantle, and disinfect unit and equipment after discharge / transfer, perform assessment: history taking, nursing diagnosis, problem list, prioritization, goals & expected outcomes, write nursing care plan, gives care as per the plan, communication, use verbal and non-verbal communication techniques, prepare a plan for patient teaching session, write patient report, changes- of shift reports, transfer reports, incident reports etc., present patient report. Vital signs, measure, records and interpret alterations in body temperature pulse respirator, health assessment, health history taking, perform assessment: general, body systems, use of various methods of physical examination, inspection, palpation, percussion, auscultation, olfaction, identification of system wise deviations. Prepare patient's unit, prepare beds: open, closed, occupied, operation, amputation, cardiac, fracture, burn, dividend, & flowers bed, pain assessment and provision for comfort, use comfort devices hygienic care: oral hygienic care: baths and care of pressure points, hair wash, pediculosis treatment, feeding, oral, enteral, naso/orogastric, gastrostomy and parenteral feeding, naso-gastric insertion, suction, and irrigation, assisting patient in urinary elimination, provide urinal/bed pan, condom care, catheterization, care of urinary drainage, bladder irrigation, assisting bowel elimination: insertion of flatus tube, enemas, insertion of suppository, bowel wash, body alignment and mobility: range of motion exercises, positioning;(rt/ lt), fowlers, sims, lithotomy,

prone, trendelenburg position, assist patient in moving, lifting, transferring, walking, restraints, oxygen administration, suctioning: oropharyngeal, nasopharyngeal, chest physiotherapy and postural drainage, care of chest drainage, CPR- basic life support, intravenous therapy, blood and blood component therapy collect/assist for collection of specimens for investigations urine, sputum, faeces, vomitus, blood and other body fluids perform lab test: urine: sugar, albumin, acetone, blood: sugar (with strip/glucometer) hot and cold applications: local and general sitz bath, communicating and assisting with self-care of visually & hearing-impaired patients, communicating and assisting with self-care of mentally challenged / disturbed patients, recreational and diversional therapies caring of patient with alteration in sensorium, infection control, perform following procedures: hand washing techniques (simple, hand antiseptis and surgical antiseptis (scrub), prepare isolation unit in lab/ ward, practice technique of wearing removing personal protective equipment (PPE), practice standard safety precautions (universal precautions), decontamination of equipment and unit, surgical asepsis: sterilization, handling sterilized equipment calculate strengths of lotions, prepare lotions, care of articles, pre and post-operative care: skin preparations for surgery: local, preparation of post-operative unit, pre & post-operative monitoring, care of the wound: dressings, suture care, care of drainage, application of bandages, binders, splints & slings bandaging of various of body parts, administration of medications, administer medications in different forms and routes, oral, sublingual and buccal, parenteral: intradermal, etc., assist with intra venous medications, drug measurements and dose calculations, preparation of lotions and solutions, administers topical applications, insertion of drug into body cavity: suppository & medicated packing etc., instillation of medicines and spray into ear, eye, nose and throat, irrigations: eye, ear, bladder, vagina and rectum, inhalation of dry and moist, care of dying patient: caring and packing of dead body, counselling and supporting grieving relatives, terminal care of the unit.

### **Recommended Books**

1. Taylor C. & Lillis C. (2008). *Fundamental of nursing: The art and science of nursing care*. Philadelphia, United states: Lippincott Williams and Wilkins.
2. Jacob A. (2007). *Clinical Nursing Procedures the Art of Nursing Practice*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
3. Nancy Sr. (2019). *Principles and Practices of Nursing*. (7<sup>th</sup> ed.). New Delhi, India: N.R. Publishing House.

4. Nissanka R. (2016). *Comprehensive Textbook of Foundation of Nursing*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
5. Lippincott. (2018). *Lippincott Nursing Procedures*. (1<sup>st</sup> ed.). Neitherland: Wolter Kluwer.

## 2<sup>nd</sup> Year Courses

Course Code	Name of Course	Hours	Credits
NSL2206	Sociology	60	2

**Course Learning Outcomes:** After the completion of this course, students will be able to:

**CLO 1:** Identify the scope and significance of sociology in nursing.

**CLO 2:** Apply the knowledge of social structure and different culture in a society in identifying social needs of sick clients.

**CLO 3:** Identify the impact of culture on health and illness.

**CLO 4:** Develop understanding about social organization and disorganization and social problems in India.

**CLO 5:** Integrate the knowledge of clinical sociology and its uses in crisis intervention to enhance the employability skillset.

### **Course Content**

Introduction: Definition of sociology, nature and scope of the discipline, importance and application of sociology in nursing, Individual & Society: Society and Community, nature of society, difference between society and community, process of socialization and individualization, personal disorganization, Culture: Nature of culture, evolution of culture, diversity and uniformity of culture, culture and socialization, transcultural society, influences on health and disease, Social groups and processes: The meaning and classification of groups, primary & secondary group, in-group v/s. out –group, class tribe, caste, economic, political, religious groups, mob, crowd, public and audience interaction & social, processes, co-operation, competition, conflict, accommodation, assimilation & Isolation, Population: Society and population, population distribution in India demographic characteristics, malthusian theory of populations, population explosion in India and its impact on health status, family welfare programmes, Family and Marriage: Family-functions, types-joint, nuclear, blended and extended family: characteristics, the modern family-changes, problems-dowry etc., welfare services, changes & legislations on family and marriage in India-marriage acts, marriage: forms and functions of marriage, marriage and family problems in India, family, marriage and their influence on health and health practices, Social Stratification: Meaning & types of social stratification, the Indian caste system-origin & features, features of caste in India



today, social class system and status, social mobility –meaning & types, race as a biological concept, criteria of racial classification, salient features of primary races-racism, influence of class, caste and race on health and health practices, Types of Communities in India (rural, urban and regional): features of village community, characteristics of Indian villages- panchayat system, social dynamics, community development project & planning, changes in Indian rural life, availability of health facilities in rural and its impact on health and health practices, urban – community – features, the growth of cities; urbanization and its impact on health and health practices, major urban problems –urban slums, region: problems and impact on health, Social Change: Nature and process of social change, factors influencing social change: cultural change, cultural lags, introduction to theories of social change; linear, cyclical, Marxian, functional, role of nurse-change agents, Social organization and social system: Social organization: elements, types, democratic and authoritarian modes of participation, voluntary associations, social system: definition and types of social system, role and status as structural elements of social system, inter-relationship of institutions, Social Control: Nature and process of social control, political, legal, religious, educational, economics, industrial and technological systems, norms & values, folkways & mores customs, laws and fashion, role of nurse, Social Problems: Social disorganization, control & planning; poverty, housing, illiteracy, food supplies, prostitution, rights of women & children, vulnerable groups: elderly, handicapped, minority groups and other marginalized groups, child labour, child abuse, delinquency and crime, substance abuse, HIV/aids, social welfare programmes in India, role of Nurse.

### **Recommended Books**

1. Sethi N. (2005). *Sociology for Nurse*. (1<sup>st</sup> ed.). Jalandhar, India: Lotus Publishers.
2. Indrani T. K. (2010). *Text book of sociology for Nurse as per INC*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.
3. Kumari N. (2018). *PV a textbook of sociology*. (3<sup>rd</sup> ed.). Jalandhar, India: PV Publications.
4. Madhavi K. (2017). *A textbook of Sociology for 2nd year*. (2<sup>nd</sup> ed.). Tirupati, India: Vijayam Publications.
5. Srivastva J. (2017). *A textbook of sociology for nursing student*. (3<sup>ed</sup> ed.). New Delhi, India: Kumar Publishing House.

Course Code	Name of Course	Hours	Credits
NSL7207	Medical Surgical Nursing-I	210	7

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Participate as members of health team in caring for clients in hospital.

**CLO 2:** Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection to amplify the employability prowess

**CLO 3:** Demonstrate skills in providing comprehensive nursing care within framework of ethics and legal principles.

**CLO 4:** Explain nursing care based on the steps of nursing practice in collaboration with individual and groups.

**CLO 5:** Describe universal precautions while providing care to the patients who suffer from various communicable diseases.

### **Course Content**

Introduction: Introduction to medical surgical nursing- evolution and trends of medical and surgical nursing, review of concepts of health and illness, disease-concepts, causations, classification diseases (icd-10 or later version), acute illness, stages of illness, review of concepts of comprehensive nursing care in medical surgical conditions base on nursing process, role of nurse, patient and family in care of adult patient, role and responsibilities of a nurse in medical surgical settings, outpatient department, in-patient unit, intensive care unit, home and community settings, introduction to medical surgical asepsis, inflammation and infection, immunity, wound healing, care of surgical patient pre –operative, intra operative, post-operative  
Common signs and symptoms and management: Fluid and electrolyte imbalance, vomiting, fever, dyspnoea & cough, respiratory, shock, unconsciousness, syncope, pain, geriatric problems, Nursing management of patients (adults including elderly) with respiratory problems: review of anatomy and physiology of respiratory system, nursing assessment-history and physical assessment, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical surgical, dietetics & nursing management of adults including elder with, upper respiratory tract infections, bronchitis, asthma, emphysema, empyema, atelectasis, chronic obstructive pulmonary diseases

(COPD), bronchiectasis, pneumonia pulmonary tuberculosis, lung abscess, pleural effusion, cysts and tumors, chest injuries, respiratory arrest and insufficiency, pulmonary embolism, special therapies, alternative therapies nursing procedures drugs used in treatment of respiratory disorders, Nursing management of patient (adults including elderly) with disorders of digestive system: review of anatomy and physiology of digestive system, nursing assessment-history and physical assessment, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management, disorders of oral cavity-lips, gums, tongue, salivary glands and teeth, esophagus inflammation, stricture, obstruction, bleeding and tumors, stomach and duodenum-hiatus hernia, gastritis, peptic and duodenal ulcer bleeding, tumors, pyloric stenosis, small intestinal disorders-inflammation and infection, enteritis, malabsorption, obstruction, tumor and perforation, large intestinal disorders, colitis, inflammation and infection, obstruction and tumor and lymph hernias, appendix-inflammation, mass, abscess, rupture, anal & rectum; hemorrhoids, fissures, fistulas, peritonitis/ acute abdomen, pancreas: inflammation, cyst, abscess and tumors, liver: inflammation, cyst, abscess, cirrhosis, portal hypertension, hepatic failure, tumors, gall bladder, inflammation, obstruction, stones and tumors, special therapies, alternative therapies, nursing procedures drugs used in treatment of disorders of digestive system, Nursing management of patient (adults including elderly) with blood and cardio vascular problems: review of anatomy and physiology of blood and cardiovascular system, nursing assessment-history and physical assessment, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical dietetics & nursing management of vascular system of hypertension, hypotension, arthrosclerosis, raynaud's disease, aneurism and peripheral vascular disorders, heart, coronary artery diseases, ischemic heart disease, coronary atherosclerosis, angina pectoris, myocardial infarction, valvular disorders of the heart, congenital and acquired, rheumatic heart diseases, endocarditis, pericarditis, myocarditis, cardio myopathies, cardiac dysrhythmias, heart block, congestive cardiac failure edema, cardiogenic shock, cardiac tamponade, cardiac emergencies and arrest, cardio pulmonary resuscitation (CPR)blood, anemias, polycythaemia, bleeding disorder; clotting factor defects and platelets defects, thalassemia, leukopenia and agranulocytosis, lymphomas, myelomas, special therapies, blood transfusion safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion, management and counselling 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, role of a nurse in organ donation, retrieval and banking, alternative therapies nursing procedures drugs used in treatment of blood and cardio vascular disorders, Nursing management of patient (adults including elderly) with disorders of Genito-urinary problems: Review of anatomy and physiology of genitor-urinary system, nursing assessment-history and physical assessment, etiology, pathophysiology, clinical manifestations diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of nephritis, nephrotic syndrome, nephrosis, renal calculus, tumors, acute renal failure, chronic renal failure, end stage renal disease, dialysis, renal transplant, congenital disorders, urinary infections, benign prostate hypertrophy, disorders of ureter, urinary bladder and urethra-inflammation infection, stricture obstruction, tumour, prostrate, special therapies, alternative therapies, nursing procedures drugs used in treatment of genitourinary disorders, Nursing management of disorders of male (adults including elderly) reproductive system: Review of anatomy and physiology of male reproductive system, nursing assessment history and physical assessment, etiology, pathophysiology, clinical manifestation diagnosis, treatment modalities and medical, surgical dietetics & nursing management of disorders of male reproductive system, congenital malformation; cryptorchidism, hypospadiasis, epispadiasis, infections, testis and adjacent structures, penis, prostate: inflammation, infection, hypertrophy, tumour, sexual dysfunction, infertility, contraception, breast; gynecomastia, tumor, climacteric changes, special therapies, alternative therapies, nursing procedures Drugs used in treatment of disorders of male reproductive system, Nursing management of patient (adults including elderly) with disorders of endocrine system: Review of anatomy and physiology of endocrine system, nursing assessment- history and physical assessment, etiology, pathophysiology, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of thyroid and parathyroid, diabetes mellitus, diabetes insipidus, adrenal tumor, pituitary disorders, special therapies, alternative therapies, nursing procedures drugs used in treatment of disorders of endocrine system, Nursing management of patient (adults including elderly) with disorders of Integumentary system: Review of anatomy and physiology of skin and its appendages, nursing assessment, history and physical assessment, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of skin and its appendages, lesions and abrasions, infection and infestations; dermatitis, dermatomes; infectious and non-infectious “inflammatory dermatoses”, acne vulgaris, allergies and eczema, psoriasis, malignant melanoma,

alopecia, special therapies, alternative therapies, nursing procedures drugs used in treatment of disorders of Integumentary system, Nursing management of patient (adults including elderly) with musculoskeletal problems: Review of anatomy and physiology of musculoskeletal system, nursing assessment and history and physical assessment, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of disorders of muscles, ligaments and joints- inflammation, infection, trauma, bones-inflammation, infection dislocation, fracture, tumor and trauma, osteomalacia and osteoporosis, arthritis, congenital deformities, spinal column-defects and deformities, tumor, prolapsed inter vertebral discs, pott's spine, paget's disease, amputation, prosthesis, transplant & replacement surgeries, rehabilitation, special therapies, alternative therapies, nursing procedures, drugs used in treatment of disorders of musculoskeletal system, Nursing management of patient (adults including elderly) with Immunological problems, Review of Immune system: nursing assessment history and physical assessment, etiology, path physiology, clinical manifestations, diagnosis, treatment modalities and medical, surgical, dietetics & nursing management of- immunodeficiency disorder, primary immuno-deficiency. phagocyte dysfunction, B-cell and T-cell deficiencies, secondary immunodeficiency syndrome (AIDS), incidence of HIV & aids, epidemiology, transmission – prevention of transmission, standard safety precautions, role of nurse, counselling health education and home care consideration. National AIDS control program-NACO, various national and international agencies, infection control program, rehabilitation. Special therapies, alternative therapies, nursing procedures drugs used in treatment of disorders of immunological system, Nursing management of patient (adults including elderly) with communicable disease- overview of infectious disease, the infectious process, nursing assessment-history and physical assessment, epidemiology, infections process, clinical manifestations, diagnosis, treatment, prevention and dietics, control and eradication of common communication, diseases- tuberculosis, diarrheal, hepatitis a-e, herpes, chickenpox, smallpox, typhoid, meningitis, gas gangrene, leprosy. dengue, plague, malaria, diphtheria, pertussis, poliomyelitis, measles, mumps, influenza, tetanus, yellow fever, filariasis, HIV, aids, reproductive tract infections, special infection control isolation, quarantine, immunization, infectious disease hospitals, special therapies, alternative therapies, nursing procedures: drugs used in treatment of communicable diseases, Preoperative nursing: organization and physical set up of the operation theatre (OT): classifications, O.T. design, staffing, members of the OT team, duties and responsibilities of nurse in O.T., principles of health

and operating room attire. instruments, sutures and suture materials, equipments, O.T. tables and sets for common surgical procedures, positions and draping for common surgical procedures, scrubbing procedures, gowning and gloving, preparation of O.T. sets, monitoring the patient during surgical procedures maintenance of therapeutic environment in O.T., infection control: fumigation, disinfection and sterilization, biomedical waste, prevention of accidents and hazards in O.T., anaesthesia types, methods of administration, effects and stages, equipments, drugs, cardio pulmonary resuscitation (CPR), pain management techniques, legal aspects.

### **Recommended Books**

1. Sharma K. S., Madhani S. (2017). *Brunner & Suddarth's Textbook of MSN*. (1<sup>st</sup> Vol.). Neitherland: Wolter Kluwer.
2. Basavanthappa B. T. (2015) *Medical Surgical Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
3. Willium S. L. & Hopper D. P. (2019). *Understanding Medical Surgical Nursing*. (4<sup>th</sup> ed.). Philadelphia, United states: F.A. Davis Company.
4. Sharma P. M. (2016). *Medical Surgical Nursing 1*. (2<sup>nd</sup> ed.). Delhi, India: A.I.T.B.S. Publishers.
5. Jose G. (2017). *Medical Surgical Nursing 1*. (1<sup>st</sup> ed.). Bangalore, India: Emmess.

Course Code	Name of Course	Hours	Credits
NSL3208	Pharmacology, Pathology & Genetics	90	3

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Describe pharmacodynamics, pharmacokinetics, classification and side effects of different drugs and medications and principle of drug administration for various disorders and nursing responsibilities related to this.

**CLO 2:** Explain pathological changes in disease conditions of various systems.

**CLO 3:** Describe various lab tests in assessment and monitoring of disease conditions

**CLO 4:** Explain maternal, prenatal and genetic influences on development of defects and diseases.

**CLO 5:** Demonstrate the understanding of screening methods and the role of nurses in genetic services and counselling to build up employability flair.

### **Pharmacology: 45 Hours**

#### **Course Content**

Introduction to pharmacology: definition, sources, terminology used types: classification pharmacodynamics: legal issues, rational use of drugs, principles of therapeutics, Chemotherapy, pharmacology of commonly used, penicillin, cephalosporins. aminoglycosides, macrolide & broad-spectrum antibiotics, sulfonamides, quinolones, antiamoebic, antimalarials, anthelmintic, antiscabies agents, antiviral & anti- agent, antitubercular drugs, anti leprosy drugs, anticancer drugs, immuno-suppressants.- Composition: action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse, Pharmacology of commonly used antiseptics, disinfectants and insecticides, Antiseptics: Composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse, disinfectants, insecticides, Drugs acting on G.I. System: pharmacology of commonly used-antiemetics, emetics, purgatives, antacids, cholinergic, anticholinergics, fluid and electrolyte therapy, anti-diarrhoeal, histamines, composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse, Drugs used on Respiratory System: pharmacology of commonly used-anti asthmatics, mucolytics, decongestants, expectorates, antitussives, bronchodilators, bronchoconstrictors, antihistamines, composition, action, dosage, route, indications, contraindications, drug interactions, side effects,

adverse effects, toxicity and role of nurse, Drugs used on Urinary System: Pharmacology of commonly used-diuretics and antidiuretics, urinary antiseptics, cholinergic and anticholinergics, acidifiers and alkalinizes composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse, Miscellaneous: Drugs used in de-addiction. drugs used in CPR and emergency, Vitamins and minerals, immunosuppressant, antidotes, antivenom, vaccines and sera, Drugs used on skin and mucous membranes: Topical application for skin, eye, ear, nose, and buccal cavity, antipruritic, composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity, and role of nurse, Drugs acting on Nervous system: Basic & applied pharmacology of commonly used: Analgesics and anesthetics, analgesics, non-steroidal anti-inflammatory (NSAIDS) drugs, antipyretics, hypnotics and sedatives, opioids, non-opioids, tranquilizers, general & local anesthetics, gases: oxygen, nitrous oxide, carbon-dioxide, cholinergic and anti-cholinergic:, muscle relaxants, major tranquilizers, anti-psychotics, antidepressants, anticonvulsants, adrenergic, noradrenergic, mood stabilizers, acetylcholine, stimulants, composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse, Cardiovascular drugs: Hematinic, cardio tonics, anti-anginal, anti-hypertensive & vasodilators, anti- arrhythmic, plasma expanders, coagulants & thrombolytics antiplatelets & thrombolytics, hypolipidemic, composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity and role of nurse, Describe Drugs used for hormonal disorders and supplementation, contraception and medical termination of pregnancy: Insulins & oral hypoglycemics, thyroid supplements and suppressants, steroids, anabolic, uterine stimulants and relaxants, oral contraceptives other estrogen-progesterone preparations, corticotrophins & gonadotropins, adrenaline, prostaglandins, calcitonin, calcium salts, calcium regulators, composition, action, dosage, route, indications, contraindications, drug interactions, side effects, adverse effects, toxicity, and role of nurse, Introduction to Drugs used in alternative system of medicine: Ayurveda, Homeopathy, Unani and Siddha etc.



## Recommended Books

1. Bruccen D. & Clayton. *Basic Pharmacology for Nurses*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Publishers.
2. Shanbhag T.V., Shenoy. S & Naik. V. (2016). *Pharmacology for Nurses*. (1<sup>st</sup> ed.). New Delhi, India: Elsevier Publishers.
3. Pritpal., Rimpi. & Kaur. D. *Textbook of Pharmacology, pathology and genetic for BSc Nursing for BSc 2nd year*. (2<sup>nd</sup> ed.) New Delhi, India: Jaypee Publisher
4. Sudhakar. G. K. *Pharmacology for Nurses*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Publisher
5. Udaykumar P. (2017). *Pharmacology for Nurses*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Publisher.

## Pathology: 30 Hours

### Course Content

Introduction: Importance of the study of pathology, definition of terms, methods and techniques, cellular and tissue changes, infiltration and regeneration, inflammations and infections, wound healing, vascular changes, cellular growth, neoplasms, normal and cancer cell, benign and malignant growths, in situ carcinoma, disturbances of fluid and electrolyte imbalance, Special pathology, Pathological changes in disease conditions of various systems: Respiratory tract, tuberculosis, bronchitis, pleural effusion and pneumonia, lung abscess, emphysema, bronchiectasis, bronchial asthma, chronic obstructive pulmonary, disease & tumors, cardio-vascular system, pericardial effusion, rheumatic heart disease, infective endocarditic, atherosclerosis, ischemia, infarction & aneurysm, gastrointestinal tract, peptic ulcer, typhoid, carcinoma of GI tract- buccal, oesophageal, gastric & intestinal, liver, gall, bladder & pancreas, hepatitis, chronic liver abscess, cirrhosis, tumors of liver, gall bladder and pancreas, cholecystitis, kidneys & urinary tract, glomerulonephritis, pyelonephritis, calculi, renal, failure, renal carcinoma & cystitis 3, male genital systems, cryptorchidism, testicular atrophy, prostatic hyperplasia, carcinoma penis & prostate, female genital system, fibroids, carcinoma cervix and endometrium, vesicular mole, choriocarcinoma, entopic gestation, ovarian cyst & tumors, cancer breast, central nervous system, hydrocephalus, meningitis, encephalitis, vascular disorders-thrombosis, embolism, stroke, paraplegia, quadriplegia, tumors, meningiomas-gliomas, meta static tumor, skeletal system, bone healing, osteoporosis, osteomyelitis, arthritis & tumors, Clinical pathology: Various blood and bone marrow tests in assessment and monitoring of disease conditions, haemoglobin, RBC, white cell &

platelet counts, bleeding time, clotting time and prothrombin time, blood grouping and cross matching, blood chemistry, blood culture, serological and immunological tests, other blood tests, examination of bone marrow, methods of collection of blood specimen for various clinical pathology, biochemistry, microbiology tests, inference and normal values, Examination of body cavity fluids, transudates, and exudates: The laboratories tests used in CSF analysis. examination of other body cavity fluids, transudates, and exudates – sputum, wound discharge etc. analysis of gastric and duodenal contents, analysis of semen-sperm count, motility and morphology and their importance in infertility, methods of collections of CSF and other cavity fluids specimen for various clinical pathology, biochemistry, microbiology test, inference, and normal values, Urine and faeces: Urine, physical characteristics, analysis, culture and sensitivity, faeces, characteristics, stool examination: occult blood, ova, parasite, and cyst, reducing substance etc. method of collection for various tests, inference, and normal values.

### **Recommended Book**

1. Sharma K. S. (2016). *Textbook of Pharmacology, pathology and genetic for Nurses*. New Delhi, India: Jaypee Brothers Medical Publishers.
2. Nayak R., Rai S. & Gupta A. (2017). *Textbook of Pathology and Genetics for Nurses*. New Delhi, India: Jaypee Brothers Medical Publishers.
3. Pritpal., Rimpi. & Kaur. D. *Textbook of Pharmacology, pathology and genetic for BSc Nursing for BSc 2nd year*. (2<sup>nd</sup> ed.) New Delhi, India: Jaypee Publisher
4. Swaminathan K. (2010). *Pathology and Genetics for Nurses*. (3<sup>rd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
5. Sharma S., Bhattacharaya K. G. & Gangane D.S. (2019). *Textbook of Pathology & Genetics for Nurses*. (2<sup>nd</sup> ed.). New Delhi, India: Elsevier.

### **Genetics: 15 Hours**

#### **Course Content**

Introduction: Practical application of genetics in nursing, impact of genetic condition on families, review of cellular division mitosis and meiosis. Characteristics and structure of genes, chromosomes sex determination, chromosomal aberrations patterns of inheritance, mendelian theory of inheritance, multiple allots and blood groups, sex linked inheritance, errors in transmission (mutation), Maternal, prenatal and genetic influences on development of defects and

diseases, Conditions affecting the mother: genetic and infections, consanguinity atopy, prenatal nutrition and food allergies. maternal age, maternal drug therapy, prenatal testing and diagnosis, effect of radiation, drugs and chemicals, infertility spontaneous abortion, neural tube defects and the role of folic acid in lowering the risks down syndrome (trisomy21), Genetic diseases in neonates and children: screening for congenital abnormalities, developmental delay, dimorphisms, Genetic disorders in adolescents and adults: Cancer genetics – familial cancer, inborn errors of metabolism, blood group alleles and hematological disorder, genetic, haemochromatosis, huntington’s disease, mental illness, Services related to Genetics: Genetic testing, human genome project, gene therapy, the eugenics movement, genetic counselling, legal and ethical issues, role of nurse.

### **Recommended Books**

1. Pritpal., Rimpi. & Kaur. D. *Textbook of Pharmacology, pathology and genetic for BSc Nursing for BSc 2nd year.* (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Publisher
2. Swaminathan K. (2010). *Pathology and Genetics for Nurses.* (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Publishers.
3. Nayak R., Rai S. & Gupta A. (2017). *Textbook of Pathology and Genetics for Nurses.* (3<sup>rd</sup> ed.). New Delhi, India: Jaypee Publisher.
4. Navneet K. *Essential Genetics for Nurses.* (2<sup>nd</sup> ed.). Jalandhar, India: Lotus publication.
5. Pal G. P. (2019). *Basics of Medical Genetics.* (3<sup>rd</sup> ed.). Delhi, India: A.I.T.B.S Publishers.

Course Code	Name of Course	Hours	Credits
NSL3209	Community Health Nursing-I	90	3

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Explore the evolution of public health in India and community health nursing

**CLO 2:** Explain the concepts and determinants of health

**CLO 3:** Utilize the knowledge and skills in providing comprehensive primary health care across the life span at various settings

**CLO 4:** Assess, diagnose, manage and refer clients for various communicable and non-communicable diseases appropriately at the primary health care level

**CLO 5:** Identify and perform the roles and responsibilities of Nurses in implementing various national health programs instigate employability skill sets.

### Course Content

Introduction: Community health nursing, definitions, concepts and dimensions of health, promotion of health, maintenance of health, Determinants of health, Eugenics, Environment, Physical: Air, light ventilation, Water, Housing, Sanitation: Disposal of waste, disposal of dead, bodies forestation, noise, climate, communication: infrastructure facilities and linkages, acts regulating the environment: national pollution control board, bacterial & viral: agents, host carriers and immunity, arthropods and rodents, food hygiene: production, preservation, purchase, preparation, consumption, acts regulating food adulteration act, drugs and cosmetic act, socio-cultural customs, taboos, marriage system, family structure, status of special groups; females, children, elderly, challenged groups and sick persons. lifestyle, hygiene, physical activity recreation and sleep, sexual life, spiritual life philosophy, self-reliance, dietary pattern, education, occupation, financial management, income, budget, purchasing power, security, Epidemiology: Definition, concept, aims, scope, uses and terminology used in epidemiology dynamics of disease transmission: epidemiological triad, morbidity and mortality: measurements, levels of prevention, methods of epidemiology of, descriptive, analytical: epidemic investigation, experimental, Epidemiology and nursing management of common Communicable Disease: Respiratory infections, small pox, chicken pox, measles, influenza, rubella, ARI's & pneumonia, mumps diphtheria, whooping cough, meningococcal meningitis, tuberculosis SARS, intestinal, infections, poliomyelitis, viral hepatitis,

cholera, diarrheal diseases, typhoid fever, food poisoning, amoebas, hook worm infection, ascariasis, dracunculiasis, arthropod infections, dengue, malaria, filariasis, zoo noses, viral, rabies, yellow fever, japanese encephalitis, kansas forest disease, bacterial, brucellosis, plague, human salmonellosis, anthrax, leptospirosis, rickettsial diseases, rickettsial zoo noses, scrub typhus, murine typhus, tick typhus, q fever, parasitic zoonoses, taeniasis, hydrated disease, leishmaniasis, surface infection, trachoma, leprosy, STD & RTI, yaws, HIV/AIDS, Epidemiology and nursing management of common Non communicable diseases- Malnutrition: Under nutrition, over nutrition, nutritional deficiencies, anemia, hypertension, stroke, rheumatic, heart disease, coronary heart disease, cancer, diabetes mellitus, blindness, accidents, mental illness, obesity, iodine deficiency, fluorosis, epilepsy, Demography: Definition, concept and scope, method of collection, analysis, and interpretation of demographic data, demographics rate and ratios, Population and its control: Population explosion and its impact on social, economic, development of individual, society and country, population control: overall development: women empowerment, social, economic educational development limiting family size: promotion of small family norm, methods; spacing (natural), biological, chemical, mechanical methods etc), terminal: surgical methods, emergency contraception.

### **Recommended Books**

1. Bijayalakshmi D. (2017). *A Comprehensive Textbook of Community Health Nursing*. New Delhi, India: Jaypee Brothers Medical Publishers.
2. Manivannan S. D. (2017). *Textbook of Community Health Nursing-I*. Chennai, India: CBS Publishers.
3. Kaur S. (2017). *Community Health Nursing-1*. Jalandhar, India: Lotus Publishers.
4. Basvanthapa B.T. (2015). *Community Health Nursing*. New Delhi, India: Jaypee Brothers Medical Publishers.
5. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.

Course Code	Name of Course	Hours	Credits
NSL3210	Communication and Education Technology	90	3

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Develop basic understanding of theoretical foundations and principles of teaching and learning

**CLO 2:** Identify the latest approaches to education and learning

**CLO 3:** Analyze and use different teaching methods effectively that are relevant to student population and settings

**CLO 4:** Construct simple assessment tools/tests integrating cognitive, psychomotor and affective domains of learning that can measure knowledge and competence of students

**CLO 5:** Engage in ethical practice in educational as well as clinical settings based on values, principles and ethical standards to foster teaching skills

### Course Content

Review of Communication Process: Process, elements and channel, facilitators, barriers and methods of overcoming, techniques, Interpersonal relations: Purpose & types, phases, barriers & methods of overcoming, johari window, Human relations: Understanding self, social behaviour, motivation, social attitudes, individual and groups, groups & individual, human relations in context of nursing, group dynamics, team work, Guidance & counselling: Definitions, purpose, scope and need, basic principles, organization of counselling services, types of counselling approaches, role and the preparation of counsellor, issues for counselling in nursing: students and practitioners, counselling process – steps & techniques, tools of counsellor, managing disciplinary problems, management of crisis & referral, Principles of education & teaching learning process, Education: Meaning, philosophy, aims, functions & principles, nature and characteristics of learning, principles and maxims of teaching, formulating objectives; general and specific, lesson planning, classroom management. Methods of teaching: Lecture, demonstration, group discussion, seminar symposium, panel discussion, role play, project, field, trip, workshop, exhibition, programmed instruction, computer assisted learning, micro teaching problem-based learning, self-instructional module and simulation etc., clinical teaching methods: case method, nursing round & reports, bedside clinic, conference (individual & group) process recording, Educational media, Purpose & types of A.V.

Aids: Principles and sources etc, graphic aids: chalk board, chart, graph, poster, flash cards, flannel graph, bulletin cartoon, three dimensional aids; objects, specimens, models, puppets, printed aids: pamphlets & leaflets, projected aids; slides, overhead projector, films TV, VCR, /VCD, camera, microscope, LCD, audio aids: tape recorder, public address system and computer, Assessment, purpose & scope of evaluation & assessment: Criteria for selection of assessment techniques and methods, assessments of knowledge: essay type questions, short answer question (SAQ), multiple choice question (MCQ), assessment of skills; observation checklist, practical exam, viva objective structured clinical examination (OSCE), Assessment of attitudes: attitude scales, Information, Education & communication for health (IEC): Health behavior & health education, planning for health education, health education with individuals' groups & communities, communicating health messages, methods & media for communicating health messages, using mass media.

### **Recommended Books**

1. Gopichandran L. (2017). *Communication & Education technology*. (2<sup>nd</sup> ed.). New Delhi, India: CBS publishers.
2. Neerja K.P. *Textbook of Communication & Education technology*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.
3. Kumari N. (2017). *A PV Text Book of Communication & Education Technology*. (1<sup>st</sup> ed.). Jalandhar, India: Pee Vee Publishers.
4. Thomas A. (2019). *Communicate.Care.Cure*. (3<sup>rd</sup> ed.). Gurugram, India: Wolters Kluwer Publishers.
5. Ezhilarasu P. (2018). *Educational Technology for Nurses*. (1<sup>st</sup> ed.). Gurugram, India: Wolters Kluwer Publishers.

Course Code	Name of Course	Hours	Credits
ES101	Environmental Sciences	40	1

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Describe various ecosystem and energy resources and biodiversity concepts.

**CLO 2:** Describe various environmental problems, social issues and its impact on health to strengthen employability skills

**CLO 3:** Explain the growth of population in India and its impact on health

**CLO 4:** Identify a local area to document environmental assets.

**CLO 5:** Reflect critically on their roles, responsibilities and identities as citizens, consumers and environmental actors in interconnected world

### Course Content

Multidisciplinary nature of environmental studies: Definition, scope and importance, need for public awareness, Natural Resources: Renewable and non-renewable resources: Natural resources and associated problems a) Forest resources: use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people. b) Water resources: use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems. c) Mineral resources: use and exploitation, environmental effects of extracting and using mineral resources, case studies. d) Food resources: world food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticides problem, water logging, salinity, case studies. e) Energy resources: growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies, f) Land resources: land as a resource, land degradation, man induces landslides, soil erosion and desertification, role of an individual in conservation of natural resources, equitable use of resources for sustainable lifestyles, Ecosystems: Concept of an ecosystems, structure and function of an ecosystems, producers, consumers and decomposers. Energy flow in the ecosystem, ecological succession, food chains, food webs and ecological pyramids, introduction, type, characteristic features and function of the ecosystem: forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystem (ponds, streams, lakes, rivers, oceans, estuaries), Biodiversity and its conservation: Introduction – definition: genetic, species and ecosystem diversity, biogeographically



classification of India. Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values, biodiversity at global, national, and local levels. India as a mega-diversity nation, hot spots of biodiversity, threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. Endangered and endemic species of India, conservation of biodiversity: in-situ and ex-situ conservation of biodiversity, Environmental Pollutions: Definition, cause, effects, and control measures of: air pollution, water pollution, soil pollution. Marine pollution, noise pollution, thermal pollution, nuclear pollution, solid waste management: causes, effects and control measures of urban and industrial wastes, role of an individual in prevention of pollution, pollution case studies disaster management: floods, earthquake, cyclone and landslides, Social Issues and the Environment: From unsustainable to sustainable development. urban problems related to energy, water conservation, rainwater harvesting, watershed management, resettlement and rehabilitation of people, its problems, and concerns, case studies, environmental ethics: issues and possible solution, climate change, global warming, acid rain, ozone layer deletion, nuclear accidents a holocaust, case studies, wasteland reclamation, consumerism and waste products, environmental protection act, air (prevention and control of pollution) act, water (prevention and control of pollution) act, wildlife protection act, forest conservation act, issue involved in enforcement of environmental legislation, public awareness, Human Population and the Environment: Pollution growth, variation among nations, population explosion, family welfare programme, environmental and human health, human rights. Value education, HIV/aids, woman and child welfare, role of information technology in environment and human health, case studies, Field Work: Visit to a local area to document environmental assets, river/forest/grassland/hill/mountain, study of common plants, insects, and birds. Study of simple ecosystem-ponds, river, hill, slopes, visit to a local polluted site etc.

### **Recommended Books**

1. Randhawa M. (2014). *The Basics of Environmental Sciences*. Punjab, India: Chitkara University Publications.
2. Bharucha E. (2018). *Environmental Sciences for undergraduate courses*. (2<sup>nd</sup> ed.). India: Universities Press (India) Private Limited.
3. Masters M. G. & Ela P. W. (2015). *Introduction to Environmental Sciences*. Delhi, India: PHI Learning Private Limited.
4. Khoiyangvan RS.(2015).*Introduction to Environment Sciences*. New Delhi, India: TERI
5. Joshi K. K. & Kumar D. (2019). *Environment Sciences*. New Delhi, India: Dreamtech Press.

Course Code	Name of Course	Hours	Credits
HUL3301	Human Rights and Values	30	0

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Explain regarding human values and human education

**CLO 2:** Describe regarding professional ethics and values

**CLO 3:** Explain regarding value education towards national and global development

**CLO 4:** Explain the professional values and demonstrate appropriate values in nursing practice

**CLO 5:** Become conscious practitioners of human values to magnify employability

### **Course Content**

Concept of human values and value education: Aim of education and value education, evolution of value-oriented education, personal development: personal development, self-analysis and introspection, sensitization toward gender equality, physically challenged, intellectually challenged, respect to - age, experience, maturity, family members, neighbours, co-workers, Value education towards national and global development: Constitutional or national, social values, human rights – general: concept of human rights – Indian and international perspectives, evolution of human rights, definition under Indian and international documents, human rights & Indian constitution, human rights of women and children and institution for development, Global development: Impact of global development on ethics and values, conflict of cross-cultural influences, mass media, cross-border education, materialistic values, professional challenges and compromise, therapeutic measures control of the mind through physical exercise, meditation (objectives, types, effect on body, mind and soul) and yog- sadhna, Ethics and values: Theories of Ethics, ethical codes and values, various ethical issues and approaches, environmental ethics, Professional Ethics: Professional ethics to each discipline – engineering, architecture, medical sciences, nursing, finance, management, hospitality, bio and pharma sciences, media etc., professional values, values and ethics for academic stakeholders, team bonding and working in a team, group cohesion, leadership in professional.

## Recommended Books

1. Gaur R.R. & Sangal R. (2009). *Human values and professional ethics*. (1<sup>st</sup> ed.). New delhi, India: Excel books publishers.
2. Joshi M. (2017). *Human values and ethics*. (1<sup>st</sup> ed.). Ludhiana, India: Kalyani publishers.
3. Shukla T. (2018). *Human Values and Professional Ethics*. (1<sup>st</sup> ed.). New Delhi, India: Cengage Publisher.
4. Naagarazan R.S. (2006). *Textbook of Professional Ethics and Human Values*. (1<sup>st</sup> ed.). New Delhi, India: New Age International Ltd, Publishers.
5. Kapoor P. (2009). *Professional Ethics and Human Values*. (1<sup>st</sup> ed.). New Delhi, India: Khanna Publishers.

Course Code	Name of Course	Hours	Credits
NSP9202	Medical Surgical Nursing –I (Practical)	720	24

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Apply scientific principles while giving nursing care to patients.

**CLO 2:** Develop skill in performing nursing procedures applying scientific principle.

**CLO 3:** Ensure patient safety while providing nursing procedures.

**CLO 4:** Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients.

**CLO 5:** Provide pre, intra and post-operative care to patients undergoing surgery.

**CLO 6:** Integrate evidence-based information while giving nursing care to patients.

**CLO 7:** Demonstrate the awareness of legal and ethical issues in nursing practice.

### Course Content

Assessment of the patient: Taking history, perform general and specific physical examination, identify alterations and deviations, practice medical surgical asepsis-standard safety measures, administer medications, oral, IV, IM, subcutaneous, iv therapy, IV cannulation, maintenance and monitoring, oxygen therapy by different methods, nebulization, chest physio therapy, naso-gastric feeding, assist in common diagnostic, perform /assist in the therapeutic procedures, blood and component therapy throat suctioning, collect specimens for common investigations. maintain elimination, catheterization, bowel wash, enema, urinary, maintain intake, output, and documentation counsel and teach related to specific disease conditions, general surgical ward (GI, urinary, CTVS), practice medical surgical asepsis-standard safety measures, pre-operative, preparation of patients, post-operative care-receiving patient, assessment, monitoring, care of wounds and drainage, suture removal, ambulation and exercise, nasogastric aspiration, care of chest drainage, ostomy care, gastrostomy, colostomy, enterostomy, blood and component therapy, practice universal precautions, cardiology ward, physical examination of the cardio-vascular system recording and interpreting ECG, monitoring and assisting in non-invasive and invasive diagnostic procedures, administer cardiac drugs. cardio-pulmonary resuscitation, teach patients and families, practice medical and surgical asepsis-standard safety measures, skin and communicable diseases

ward, assessment of patients with skin disorders, assist in diagnostic and therapeutic procedures, administer topical medication practice medical surgical asepsis-standard safety measures, use of personal protective equipment (PPE), give medicated baths, counselling HIV positive patients, teach prevention of infectious diseases, orthopaedic ward, assessment of orthopedic patients, assist in application of plaster cast and removal of cast. apply skin traction buck's extension traction, assist in application and removal of prosthesis, physiotherapy-range of motion exercise (ROM), muscle strengthening exercises, crutch manoeuvring technique, activities of daily living, ambulation, teach and counsel patients and families, operation theatre: scrubbing, gowning, gloving, identify instruments, suturing materials for common operations, disinfection, carbonization, fumigation, preparation of instrument sets for common operations, sterilization of sharps and other instruments, prepare the OT table depending upon the operation, positioning and monitoring of patients, endotracheal intubation, assisting in minor and major operations, handing specimens, disposal of waste as per the guidelines.

### **Recommended Books**

1. Sharma K. S., Madhani S. (2017). *Brunner & Suddarth's Textbook of MSN*. (2<sup>nd</sup> ed.). Neitherland: Wolter Kluwer.
2. Basavanthappa B. T. (2015) *Medical Surgical Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
3. Gautam K. V. (2012). *Procedure Manual of Medical Surgical Nursing*. Delhi, India: Kumar Publications.
4. Bauldoff G., Gubrud P. & Carno M. (2019). *LeMone and Burke's Medical-Surgical Nursing: Clinical Reasoning in Patient Care*. Chennai, India: Pearson.
5. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.

Course Code	Name of Course	Hours	Credits
Qu-NSP5203	Community Health Nursing-I (Practical)	135	5

**Course Learning Outcomes:** After the completion of this course, the students will be able to:

**CLO 1:** Identifying family health needs, providing health counselling and guidance and family budgeting for optimum health to provide family based comprehensive care.

**CLO 2:** Conduct health education programmes for individual/groups/community.

**CLO 3:** Participation in activities of SC, PHC, CHC and MCH center.

**CLO 4:** Conduct community survey and assist in National Health Programs.

**CLO 5:** Perform assessment and provide the care to under five children, antenatal and postnatal mothers, individuals and families in community to hone clinical skills

### Course Content

Use techniques of interpersonal relationship: identification of health, determinants of community, history taking, physical examination, collect specimen's sputum, malaria smear, perform simple lab tests at centre-blood for haemoglobin and sugar, urine for albumin and sugar, administer vaccines and medications to adults, counsel and teach individual, family and community, nutrition, hygiene, self-health monitoring, seeking health services, healthy lifestyle, family welfare methods, health promotion.

### Recommended Books

1. Clement I. (2012). *Manual of Community Health Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers.
2. Kaur B. (2012). *Community Health Nursing Procedures*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
3. Gail.A.Harkness & Rosanna. (2015). *Community and Public Health Nursing*. (2<sup>nd</sup>ed): Wolters Kluwer.
4. Ray S. (2016). *Community Nursing: Procedure Manual*. (1<sup>st</sup> ed.). New Delhi, India: CBS Publishers.
5. Basavanthappa B.T. *Community Health Nursing for B.Sc. and Post B.Sc. Nursing Students*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.

### 3<sup>rd</sup> Year Courses

Course Code	Name of Course	Hours	Credits
NSL4311	Medical Surgical Nursing –II	120	4

**Course Learning Outcomes:** After the completion of this course, the students will be able to:

**CLO 1:** Explain the etiology, pathophysiology, manifestations, diagnostic studies, treatments and complications of selected common medical and surgical disorders.

**CLO 2:** Integrate knowledge of anatomy, physiology, pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders.

**CLO 3:** Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities

**CLO 4:** Develop the understanding and skills in critical thinking and decision making to manage the complications related to various diseases and implementing the rehabilitative services to enhance employability

**CLO 5:** Identify the drugs used in treating patients with selected medical surgical conditions.

**CLO 6:** Maintain safe environment for patients and the health care personnel in the hospital to build up employability skillset.

#### **Course Content**

Nursing management of patient with disorder of ear, nose and throat: Review of anatomy and physiology of the ear nose and throat, nursing assessment-history and physical assessment, etiology, path physiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of ear nose and throat disorder: external ear: deformities otalgia, foreign bodies, and tumors, middle ear- impacted wax, tympanic membrane perforation, otitis media, otosclerosis, mastoiditis, tumors, inner ear-meniére’s disease, labyrinthitis, ototoxicity, tumors, upper airway infections- common cold, sinusitis, ethinitis, rhinitis, pharyngitis, tonsillitis and adenoiditis, peritonsillar abscess, laryngitis, upper respiratory airway- epistaxis, nasal obstruction, laryngeal obstruction, cancer of the larynx, cancer of the oral cavity, speech defects and speech therapy, deafness- prevention, control and rehabilitation, hearing aids, implanted hearing devices, special therapies, nursing procedures, drugs used in treatment of disorders of ear nose and throat role of nurse communicating with hearing impaired and muteness, Nursing

management of patient with disorders of eye: Review of anatomy and physiology of the eye, nursing assessment-history and physical assessment, etiology, path physiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of eye disorder: refractive errors, eyelids-infections, tumors and deformities, conjunctiva-inflammation and infection, bleeding, cornea-inflammation and infection, lens cataracts, glaucoma, disorder of the uveal tract, ocular tumors disorders of posterior chamber and retina: retinal and vitreous problems, retinal detachment, ocular emergencies and their prevention, blindness, national blindness control program, eye banking, eye prostheses and rehabilitation, role of a nurse-communication with visually impaired patient, eye camps, special therapies, nursing procedures, drugs used in treatment of disorders of eye, Nursing management of patient with neurological disorders: Review of anatomy and physiology of the neurological system, nursing assessment – history and physical and neurological assessment and glasgow coma scale, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical surgical neurological disorders: congenital malformations, headache, head injuries, spinal injuries, paraplegia, hemiplegia, quadriplegia, spinal cord compression-hernia ion of intervertebral disc, tumors of the brain & spinal cord, intra cranial and cerebral aneurysms abscess, neurocysticercosis, movement disorders, chorea, seizures, epilepsies, cerebra vascular accidents, cranial, spinal neuropathies-bell’s palsy, trigeminal neuralgia, peripheral neuropathies, barr’s syndrome, myasthenia gravis, multiple sclerosis, degenerative: delirium, dementia, alzheimer’s disease, parkinson’s disease, management of unconscious patients and patients with stroke, role of the in communicating with patient having neurological deficit, rehabilitation of patients with neurological deficit, role of nurse in long stay facility (institutions) and at home, special therapies, nursing procedures, drugs used in treatment of neurological disorders, Nursing management of patients with disorders of female reproductive system: Review of anatomy and physiology of the female reproductive system, nursing assessment-history and physical assessment, breast self-examination, etiology, path physiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of disorder of female reproductive system: congenital abnormalities of female reproductive system, sexuality and reproductive health, sexual health assessment, menstrual disorders, dysmenorrhea, amenorrhea, pelvic inflammatory disease, ovarian and fallopian tube disorder; infections, cysts, tumors, uterine and cervical disorders, endometriosis, polyps, fibroids, cervical and uterine tumors, uterine displacement, cystocele/urethrocele, rectocele, vaginal



disorders, infections and discharges, fistulas, diseases of breast, deformities, infections, cysts and tumors, menopause and hormonal replacement therapy, infertility, contraception; types methods, risk and effectiveness, spacing methods barrier methods, intra uterine devices, hormonal, post connectional methods, etc, terminal methods, sterilization, emergency contraception methods, abortion –natural, medical and surgical abortion –medical termination of pregnancy act, toxic shock syndrome, injures and trauma, sexual violence, special therapies, nursing procedures, drugs used in treatment of gynaecological disorders, national family welfare programme, Nursing management of patients with burns, reconstructive and cosmetic surgery: Review of anatomy and physiology of the skin and connective tissues and various deformities, nursing assessment-history and physical assessment and assessment of burns and fluid and electrolyte loss, etiology, classification, path physiology, clinical manifestations, diagnosis's, treatment modal ties and medical & surgical nursing management of burns and re-constructive and cosmetic surgery, types of re-constructive and cosmetic surgery; for burns, congenital deformities, injuries, and cosmetic purposes, role of nurse, legal aspects, rehabilitation, special therapies, psychosocial aspects, nursing procedures, drugs used in treatment of burns, reconstructive and cosmetic surgery, Nursing management of patients with oncological conditions: Structure & characteristics of normal & cancer cells, nursing assessment-history and physical assessment, prevention screening, early detection, warning signs of cancer, epidemiology, etiology, classification, pathophysiology, staging, clinical manifestations, diagnosis, treatment modalities and management of oncological conditions, common malignancies of various body systems; oral, larynx, lung, stomach and colon, liver, leukemia's and lymphomas, breast, cervix, ovary, uterus, sarcoma, brain, renal, bladder, prostate etc, oncological emergencies, modalities of treatment: immunotherapy, chemotherapy, radiotherapy, surgical interventions, stem cell, bone marrow transplant, gene therapy, other forms of treatment, psychosocial aspect of cancer, rehabilitation, palliative care, symptom and pain management, nutritional support, home care, hospice care, stomal therapy, special therapies, psycho-social aspects, nursing procedures, Nursing management of patient in emergency & disaster situations: Concept and principles of disaster nursing, causes and types of disaster: natural and man- made, earthquakes, floods, epidemics, cyclones, fire, explosion, accidents, violence, terrorism: biochemical war, policies related to emergency /disaster management, international, national state, institutional, disaster preparedness: team, guidelines, protocols, equipment resources, coordination and involvement of, community, various govt. departments, non-govt. organizations and international agencies, role of nurse:

working, legal aspect of disaster nursing, impact on health and after effects, post traumatic stress disorder, rehabilitation; physical psychosocial, financial, relocation, emergency nursing : concept, priorities, principles and scope of emergency nursing, organization of emergency services; physical setup, staffing, equipment and supplies, protocols, concepts of triage and role of triage nurse, coordination and involvement of different departments and facilities, nursing assessment-history and physical assessment, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of patient with medical and surgical emergency, principles of emergency management, common emergencies, respiratory emergencies, cardiac emergencies, shock and hemorrhage, pain, poly-trauma, road accidents crush injuries, wound, bites, poisoning, food, gas, drugs & chemical poisoning, seizures, thermal emergencies; heat stroke & cold injuries, paediatric emergencies, psychiatric emergencies, obstetric emergencies, violence, abuse, sexual assault, cardio-pulmonary resuscitation, role of the nurse, medico-legal aspects, crisis intervention, communication and interpersonal relationship, Nursing care of the elderly: Nursing assessment-history and physical assessment, ageing, demography, myths and realities, concepts and theories of ageing, cognitive aspects of ageing, normal biological ageing, age related body systems changes, psychosocial aspects of aging, medications and elderly, stress & coping in older adults, common health problems & nursing management, cardiovascular, respirator, musculoskeletal, endocrine, genitor-urinary, gastrointestinal, neurological, skin, and other sensory organs, psychosocial and sexual, abuse of elderly person, role of nurse for care of elderly: ambulation, nutritional, communicational, psychosocial and spiritual, role of nurse for caregivers of elderly, role of family and formal and non-formal caregivers, use of aids and prosthesis (hearing aids, dentures, legal & ethical issues, provisions and programmes for elderly, privileges, community programs and health services, home and institutional care, Nursing management of patient in critical care Units: Nursing assessment-history and physical assessment, classification, principles of critical care nursing, organization, physical setup, policies, staffing norms, protocols, equipment, and supplies, special equipment, ventilators, cardiac monitors, defibrillators, resuscitation equipment, infection control protocols nursing management of critically ill patient, monitoring of critically ill patient, cardio pulmonary resuscitation-advance cardiac life support, treatments and procedures, transitional care, ethical and legal aspects, communication with patient and family, intensive care records, crisis intervention, death and dying coping, drugs used in critical care unit, Nursing management of adult patients including elderly with occupational & industrial

disease: Nursing assessment-history and physical assessment, etiology, pathophysiology, clinical manifestations, diagnosis, treatment modalities and medical & surgical nursing management of occupational and industrial health disorders, role of nurse, special therapies, alternative therapies, nursing procedures, drugs used in treatment of occupational and industrial disorders.

### **Recommended Books**

1. Chitnamani. & Mani M. (2018). *Lewis's Medical-Surgical Nursing Assessment and Management of Clinical Problems*. (3<sup>rd</sup> ed.). New Delhi, India: Elsevier.
2. Sharma K. S., Madhani S. (2017). *Brunner & Suddarth's Textbook of MSN*. (2<sup>nd</sup> Vol.). Neitherland: Wolter Kluwer.
3. Basavanthappa B. T. (2015) *Medical Surgical Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
4. Willium S. L. & Hopper D. P. (2019). *Understanding Medical Surgical Nursing*. (4<sup>th</sup> ed.). Philadelphia, United states: F.A. Davis Company.
5. Hoffman & Sullivan (2016). *Davis Advantage for Medical Surgical Nursing: Making Connections to Practice*. Philadelphia, United states: F.A. Davis Company.

Course Code	Name of Course	Hours	Credits
NSL3312	Child Health Nursing	90	3

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Develop understanding of the history and modern concepts of child health and child-care

**CLO 2:** Describe the role of preventive paediatrics and perform preventive measures towards accidents

**CLO 3:** Demonstrate competencies in newborn assessment, planning and implementation of care to normal and high-risk newborn including neonatal resuscitation

**CLO 4:** Apply the principles and strategies of Integrated management of neonatal and childhood illness

**CLO 5:** Apply the knowledge of pathophysiology and provide nursing care to children with various disorders to foster employability

### Course Content

Introduction: Modern concepts of childcare, internationally accepted rights of the child, national policy and legislations in relation to child health and welfare, national programs related to child health and welfare, agencies related to welfare services to the children, changing trends in hospital care, preventive, promotive and curative aspects of child health, child morbidity and mortality rates, differences between and adult and child, hospital environment of the child, impact of hospitalization on the child and family, grief and bereavement, the role of a child health nurse in caring for hospitalized child, principles of pre- and post-operative care of infants and children, child health nursing procedures, The healthy child: Principles of growth and development, factors affecting growth & development, growth and development from birth to adolescence, the needs of normal children through the stages of developmental and parental guidance, nutritional needs of children & infants, breast feeding, exclusive breast supplementary/artificial feeding and weaning, baby friendly hospital concept, accidents: causes and prevention, value of play and selection of play material, preventive immunization, immunization programme and cold chain, preventive paediatrics, care of under-five & under five clinics/well baby clinics, Nursing care of neonate: Nursing care of a normal newborn /essential newborn care, neonatal resuscitation, nursing management of a low-birth-weight baby, kangaroo mother care, nursing management of common

neonatal disorders organization of neonatal unit, identification & nursing management of common congenital malformation, Integrated management of neonatal and childhood illnesses, Nursing management in common childhood disease: Nutritional deficiency disorders, respiratory disorder and infections, gastrointestinal infections, infestations, and congenital disorders, cardiovascular problem: congenital defects and rheumatic fever, rheumatic heart disease, genito-urinary disorders: acute glomerulo-nephritis, nephrotic syndrome, wilms' tumor, infection, and congenital disorder, neurological infections and disorders: convulsions, epilepsy, meningitis, hydrocephalus spina-bifida, hematological disorders: anemias, thalassemia, itp, leukemia, haemophilia, endocrine disorders: juvenile diabetes mellitus, orthopedic disorder: club feet, hip dislocation, and fracture, disorders of skin, eye, and ears, common communicable diseases in children their identification in hospital and home and prevention, child health emergencies: poisoning foreign bodies, haemorrhage, burns and drowning, nursing care of infant children with human immunodeficiency virus/acquired immune deficiency syndrome, Management of behavioural & social problems in children: Management of common behavioural disorders, management of common psychiatric problems, management of challenged children: mentally, physically, & socially challenged, welfare services for challenged children in India, child guidance clinics.

### **Recommended Books**

1. Kurian S. (2016). *Textbook of Pediatric Nursing as per INC Syllabus*. (1<sup>st</sup> ed.). Delhi, India: Emmess Publisher.
2. Sharma R. (2013). *Essentials of Pediatric Nursing*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publisher.
3. Marilyn J. H. *Wong's Essentials of Pediatric nursing*. (1<sup>st</sup> ed.). New Delhi, India: Elsevier Publisher, 1<sup>st</sup> edition
4. Marlow D.R. & Redding. B.A. *Textbook of Pediatric Nursing*. (1<sup>st</sup> ed.). New Delhi, India: Elsevier Publisher.
5. Ghai. O.P. *GHAI Essentials Paediatrics*. (1<sup>st</sup> ed.). New Delhi, India: CBS Publishers & Distributors Publisher.

Course Code	Name of Course	Hours	Credits
NSL3313	Mental Health Nursing	90	3

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Identify and describe the philosophy and principle of mental health and psychiatric nursing and classify the mental disorder.

**CLO 2:** Develop basic understanding of the principles and concepts of mental health nursing to magnify employability

**CLO 3:** Describe the etiological factors and psychopathology, clinical features, diagnostic criteria and treatment methods for mental health disorders.

**CLO 4:** Communicate therapeutically with patient and their families.

**CLO 5:** Identify the role of nurse in preventive psychiatry and legal aspects of mental health nursing

### Course Content

Introduction: Perspectives of mental health and mental health nursing: evolution of mental health services, treatments and nursing practices, prevalence and incidence of mental health problems and disorders, mental health act, national mental health policy, national health policy, national mental health programme, mental health team, nature and scope of mental health nursing, role and functions of mental health nurse in various settings and factor affecting the level of nursing practice, concepts of normal and abnormal behaviour, Principles and concepts of mental health nursing: Definition: mental health nursing and terminology used, classification of mental disorders: international classification of diseases, review of personality development, defence mechanisms, maladaptive behaviour of individuals and group: stress, crisis and disaster(s), etiology: bio-psycho-social factors, psychopathology of mental disorders: review of structure and function of brain, limbic system and abnormal neurotransmission, principles of mental health nursing, standard of mental health nursing practice, conceptual models and the role of nurse: existential model, psycho-analytical models, behavioural model, interpersonal model, Assessment of mental health status: History taking, mental status examination, mini mental status examination, neurological examination: review, investigations: related blood chemistry, electroencephalogram, computed

tomography & magnetic resonance imaging, psychological tests role and responsibilities of nurse, Therapeutic communication and nurse-patient relationship: Therapeutic communication: types, techniques, characteristics, types of relationship, ethics and responsibilities, elements of nurse patient contract, review of technique of interpersonal relationship- johari window, goals, phases, tasks, therapeutic techniques, therapeutic impasse and its intervention, Treatment modalities and therapies used in mental disorders: Psycho pharmacology, psychological therapies: therapeutic community, psycho therapy-individual: psycho-analytical, cognitive and supportive, family, group, behavioural, play, psycho-drama, music, dance, recreational and light therapy, relaxation therapies: yoga, meditation, bio feedback, interpersonal psychotherapy: principles, types, indications, contraindications, phases of ipt, problem areas in interpersonal therapy (identification and management), alternative system of medicine, occupational therapy, physical therapy: electro convulsive therapy, geriatric considerations, role of nurse in above therapies, Nursing management of patient with schizophrenia, and other psychotic disorders: Classification: international classification of disease, etiology, psycho-pathology, types, clinical manifestations, diagnosis, nursing assessment-history, physical and mental assessment, treatment modalities and nursing management of patients with schizophrenia and other psychotic, disorders, geriatric considerations, follow-up and home care and rehabilitation, Nursing management of patient with mood disorders: Mood disorders: bipolar affective disorder, mania depression and dysthymias etc, etiology, psycho-pathology, clinical manifestations, diagnosis, nursing assessment –history, physical and mental assessment, treatment modalities and nursing management of patients with mood disorders, geriatric considerations, follow up and home care and rehabilitation, Nursing management of patient with neurotic, stress related and somatisation disorders: Anxiety disorder, phobias, dissociation and conversion disorder obsessive, compulsive disorder, somatoform disorders, post traumatic stress disorder, etiology, psychopathology, clinical manifestations, diagnosis, nursing assessment-history, physical and mental assessment, treatment modalities and nursing management of patients with neurotic, stress related and somatisation disorders, geriatric considerations, follow up and home care and rehabilitation, Nursing management of patient with substance use disorders: Commonly used psychotropic substance: classification forms, routes, action intoxication and withdrawal, etiology of dependence: tolerance, psychological and physical dependence, withdrawal syndrome, diagnosis, nursing assessment –history, physical, mental assessment and drug assay, treatment (detoxification, antabuse and narcotic antagonist therapy and harm reduction ) and

nursing management of patients with substance use disorders, geriatric considerations, follow-up and home care and rehabilitation, Nursing management of patient with personality, sexual and eating disorders: Classification of disorders, etiology, psychopathology, characteristics, diagnosis, nursing assessment –history, physical and mental assessment, treatment modalities and nursing management of patients with personality, sexual and eating disorders, geriatric considerations, follow up and home care and rehabilitation, Nursing management of childhood and adolescent disorders including mental deficiency: Classification, etiology, psychopathology, characteristics, diagnosis, nursing assessment –history, physical and mental and intellectual quotient assessment, treatment modalities and nursing management of childhood disorder including mental deficiency, follow-up and home care and rehabilitation, Nursing management of organic brain disorders: Classification of mental disorders: international classification of disease, etiology, psychopathology, clinical features diagnosis, and differential diagnosis (parkinson’s and alzheimer’s), nursing assessment –history, physical and neurological assessment, treatment modalities and nursing management of organic brain disorders, geriatric considerations, follow up and home care and rehabilitation, Psychiatric emergencies and carry out crisis intervention: Types of psychiatric emergencies and their management, stress adaptation model: stress and stressor, coping, resources, and mechanism, grief: theories of grieving process, principles techniques of counselling, types of crisis, crisis intervention: principles, techniques, and process, geriatric considerations, role and responsibilities of nurse, Community mental health nursing: Development of community mental services: national mental health programme, institutionalization versus deinstitutionalization, model of preventive psychiatry, levels of prevention, mental health services available at the primary, secondary, tertiary levels including rehabilitation and role of nurse, model of preventive psychiatry levels of prevention, mental health agencies: government and voluntary, national, and international, mental health nursing issues for special populations: children, adolescence, women, elderly, victims of violence and abuse, handicapped, human immune virus/acquired immune deficiency syndrome etc.



## Recommended Books

1. Townsend C. M. & Morgan I. K. (2017). *Psychiatric Mental Health Nursing Concepts of Care in Evidence-Based Practice*. (9<sup>th</sup> ed.). Philadelphia, United states: F.A. Davis Company.
2. Shives R. L. (2008). *Basic Concepts of Psychiatric: Mental Health Nursing*. Philadelphia, United states: Lippincott Williams & Wilkins.
3. Sreevani R. (2004). *A guide to Mental Health Psychiatric NURSING*. (4<sup>th</sup> ). New Delhi, India: Jaypee Publisher.
4. Baputty S., Sethi S. & Hitam S. (2014). *Mental Health Nursing*. (1<sup>st</sup> ed.). Oxford, United Kingdom: Oxford University Press.
5. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.

Course Code	Name of Course	Hours	Credits
NSL2314	Nursing Research and Statistics	45	2

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Understand the terms and concepts of nursing research

**CLO 2:** Applying the knowledge of research process through identification of research problem, literature review, designing the research study, collecting the data and analysing the data and presenting the data.

**CLO 3:** Identify research priority areas

**CLO 4:** Conduct the research projects in groups to enhance entrepreneurship abilities.

**CLO 5:** Gain the skills for dissemination of knowledge through communication of research findings to nursing fraternity.

### Course Content

Research and research process: Introduction and need for nursing research, definition of research & nursing research, step of scientific method, characteristics of good research, step of research process-overview, Research problem /question: Identification of problem area, problem statement, criteria of a good research problem, writing objective, Review of literature: Location, sources, online search, CINHALL, COCHARNE etc, purposes, method of review, Research and research process: Historical, survey and experimental, qualitative and quantitative designs, Sampling and data collection: Definition of population, sample, factors influencing sampling process, types of sampling techniques, data-why, what, from whom, when and where to collect, data collection methods and instruments: methods of data collection, question interviewing, observations, record analysis and measurement, types of instruments, validity & variability of the instrument, pilot study, data collection procedure, analysis of data: compilation, tabulation, classification, summarization, presentation, interpretation of data, Research and research process: Definition, use of statistics, scales of measurement, frequency distribution and graphical presentation of data, mean, median, mode, standard deviation, normal probability and tests of significance, co-efficient of correlation, statistical packages and its applications, Communication and utilization of research: Communication of research: verbal findings, writing research, writing report scientific article/paper, critical review of published research, utilization of research finding.

### **Recommended Books**

1. Polit D.F. & Beck C.T. (2018). *Essentials of Nursing Research: Appraising Evidence for Nursing Practical*. (10th ed.). New Delhi, India: Wolters Kluwer publishers.
2. Polit D.F. & Beck C.T. (2017). *Nursing Research - Generating and Assessing Evidence for Nursing Practical*. (11<sup>th</sup> ed.). New Delhi, India: Wolters Kluwer publishers.
3. Basavanthappa B.T. (2014). *Biostatistics for Nurses*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.
4. Sudha R.(2017). *Research and Biostatistics for Nurses (As per INC Syllabus)*.(1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.
5. Dey M. (2016). *A Guide to Nursing Research and Biostatistics (As Per INC Syllabus)*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.

Course Code	Name of Course	Hours	Credits
NSP9304	Medical Surgical Nursing-II (Practical)	270	9

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Plan & implement nursing care based on priority needs and provide the health education relating to treatment and management of patients with the various medical & surgical disorders while following & maintaining legal & ethical principles

**CLO 2:** Communicate effectively with the visually impaired, deaf & mute and patients having neurological deficits.

**CLO 3:** Provide efficient hospice care to terminally ill patients.

**CLO 4:** Classify the patients on the basis of triage in disaster conditions and provide care to the patients requiring emergency services.

**CLO 5:** Demonstrate skill in assisting/performing diagnostic and therapeutic procedures.

**CLO 6:** Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders.

**CLO 7:** Identify the drugs used in treating patients with selected medical surgical conditions.

### Course Content

ENT: Perform examination of ear, nose and throat, assist with diagnostic procedures, assist with therapeutic procedures, instillation of drops, perform/assist with irrigations, apply ear bandage, perform tracheotomy care and teach patients and families, Ophthalmology: Perform examination of eye, assist with diagnostic procedures, assist with therapeutic procedures, perform/assist with irrigations, apply eye bandage, apply eye drops/ointments, assist with foreign body removal, and teach patients and families, Neurology: Perform neurological examination, use glasgow coma scale, assist with diagnostic procedures, assist with therapeutic procedures, teach patients & families, participate in rehabilitation program, Gynaecology ward: Assist with gynaecological examination, assist with diagnostic procedures, assist with therapeutic procedures, teach patients families, teaching self-breast examination, assist with pap smear collection, Burns unit: Assessment of the burns patient, percentage of burns, degree of burns, fluid & electrolyte replacement therapy: assess, calculate, replace, record intake/output, care of burn wounds, bathing, dressing, perform active & passive examination, practice medical & surgical asepsis, counsel and families, participate in

rehabilitation program, Oncology unit: Screen for common cancers-TNM classification, assist with diagnostic procedures, biopsies, pap smear, bone-marrow aspiration, breast examination, assist with therapeutic procedures, participates in various modalities of treatment, chemotherapy, radiotherapy, pain management, stoma therapy, hormonal therapy, immuno therapy, gene therapy, alternative therapy, participate in palliative in care, counsel and teach patients families, Critical care unit: Self breast examination, warning signs, participate in rehabilitation program, monitoring of patients in intensive care unit, maintain flow sheet, care of patient on ventilators, perform end tracheal suction, demonstrates use of ventilators, cardiac monitors etc, collect specimens and interprets arterial blood gas analysis, assist with arterial puncture, maintain central venous pressure line, pulse oximetry, cardio pulmonary resuscitation –advance life support, defibrillators, pace makers, bag-mask ventilation, emergency tray/trolley-crash cart, administration of drugs, infusion pump, epidural, intra thecal, intracardiac, total parenteral therapy, chest physiotherapy, perform active & passive exercise, counsel the patient and family in dealing with grieving and bereavement, Casualty / emergency: Practice “triage”, assist with assessment, examination, investigations & their interpretations, in emergency and disaster situations, assist in documentations, assist in legal procedures in emergency unit, participate in managing crowd, counsel patient and families in grief and bereavement.

### **Recommended Books**

1. Chitnamani. & Mani M. (2018). *Lewis's Medical-Surgical Nursing Assessment and Management of Clinical Problems*. (3<sup>rd</sup> ed.). New Delhi, India: Elsevier.
2. Sharma K. S., Madhani S. (2017). *Brunner & Suddarth's Textbook of MSN*. (2<sup>nd</sup> Vol.). Neitherland: Wolter Kluwer.
3. Basavanthappa B. T. (2015) *Medical Surgical Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
4. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.
5. Hoffman & Sullivan (2016). *Davis Advantage for Medical Surgical Nursing: Making Connections to Practice*. Philadelphia, United states: F.A. Davis Company.

Course Code	Name of Course	Hours	Credits
NSP9305	Child Health Nursing (Practical)	270	9

**Course Learning Outcomes:** After the completion of this course, students will be able to:

**CLO 1:** Take the detailed history of paediatric client and perform the health and developmental assessment of sick as well as healthy child.

**CLO 2:** Educate the family members regarding preventive measures of diseases and provide immunization to the child independently.

**CLO 3:** Compare and contrast normal and high-risk new-borns and provide nursing care accordingly.

**CLO 4:** Identify the deviations in normal growth and development of child.

**CLO 5:** Demonstrate skills in neonatal assessment and resuscitation effectively as and when required.

**CLO 6:** Provide holistic care to the paediatric client diagnosed with various childhood disorders

### Course Content

Paediatric medicine ward: Taking paediatric history, physical examination and assessment of children, administer of oral, IM & IV medicine/fluid, calculation of fluid requirements, prepare different strength of intravenous fluid fluids, apply restraints, administer O<sub>2</sub> inhalation by different methods, give baby bath, feed children by katori, spoon etc, collect specimens for common investigations, assist with common diagnostic procedures, teach mothers/parents: malnutrition, oral rehydration therapy, feeding & weaning, immunization schedule, play therapy, specific disease conditions, Paediatric surgery ward: Calculate prepare and administer intravenous fluids, bowel wash, care for ostomies: colostomy irrigation, ureterostomy, gastrostomy, enterostomy, urinary catheterization and drainage, feeding: naso-gastric, jejunostomy, care of surgical wounds: dressing, suture removal, Paediatric outpatient department / immunization room: Assessment of children, health assessment, developmental assessment, anthropometric assessment, immunization, health/nutritional education, Paediatric medicine and surgery intensive care unit: Care of a baby incubator/warmer, care of a child on ventilator, endo tracheal suction, chest physiotherapy,

administer fluids with infusion pump, total parenteral nutrition, phototherapy, monitoring of babies, cardiopulmonary resuscitation.

**Internship:**

**Paediatric medicine ward/intensive care unit:** Integrated Practice.

**Paediatric surgery ward /intensive care unit:** Integrated Practice.

**Neonatal intensive care unit:** Integrated Practice

**Recommended Books**

1. Padmaja A. (2014). *Pediatric Nursing Procedure Manual*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publisher.
2. Kalia R. (2014). *Pediatric Nursing Procedure*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publisher.
3. Singh M. (2015). *Drug Dosages in Children*. (1<sup>st</sup> ed.). New Delhi, India: CBS Publishers.
4. Singh M. (2017). *Pediatric - Clinical Methods*. (8<sup>th</sup> ed.). New Delhi, India: CBS Publishers.
5. Chheda M. K. (2019). *Practical Aspects of Paediatrics*. (8<sup>th</sup> ed.). New Delhi, India: CBS Publishers.

Course Code	Name of Course	Hours	Credits
NSP9306	Mental Health Nursing (Practical)	270	9

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Develop skill in history taking and performing mental status examination.

**CLO 2:** Identify the etiological factors, psycho-pathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.

**CLO 3:** Manage the patients with various mental disorders.

**CLO 4:** Communicate therapeutically with patients and their families.

**CLO 5:** Provide nursing care to patients with mental health problems/disorders

### Course Content

Psychiatric outpatient department: History taking, performs mental status examination, assist in psychometric assessment, perform neurological examination, observe and assist in therapies, teach patients and family members, Child guidance clinic: History taking, assists in psychometric assessment, perform neurological examination, observe and assist in therapies, teach patients and family members, In-patient ward: History taking, perform mental status examination perform neurological examination, assist in psychometric assessment, record therapeutic communication, administer medications, assist in electroconvulsive therapy, participate in all therapies, prepare patients for activities of daily living, conduct admission and discharge counselling, counsel and teach patients and families, Community psychiatry: Conduct case work, identify individuals with mental health problems, assists in mental health camps and clinics, counsel and teach family members, patients and community.

### Recommended Books

1. Townsend C. M. & Morgan I. K. (2017). *Psychiatric Mental Health Nursing Concepts of Care in Evidence-Based Practice*. (9<sup>th</sup> ed.). Philadelphia, United states: F.A. Davis Company.
2. Shives R. L. (2008). *Basic Concepts of Psychiatric: Mental Health Nursing*. Philadelphia, United states: Lippincott Williams & Wilkins.



3. Sreevani R. (2004). *A guide to Mental Health Psychiatric NURSING*. (4<sup>th</sup> ). New Delhi, India: Jaypee Publisher.
4. Baputty S., Sethi S. & Hitam S. (2014). *Mental Health Nursing*. (1<sup>st</sup> ed.). Oxford, United Kingdom: Oxford University Press.
5. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (2<sup>nd</sup> ed.). Chennai, India: CBS Publishers.

Course Code	Name of Course	Hours	Credits
Qu-NSP2307	Research Project	45	2

**Course Learning Outcomes:** After the completion of this course, the students will be able to

**CLO 1:** Articulate a clear research problem and formulate a hypothesis, demonstrate appropriate research methodologies, analyze data and synthesize research findings.

**CLO 2:** Work collaboratively with other researchers, using listening and communication skills

**CLO 3:** Communicate the research findings in written and verbal forms to nursing fraternity to develop the knowledge base of nursing profession.

**CLO 4:** Practice computing, descriptive statistics and correlation

**CLO 5:** Draw figures and types of graphs on given data set

**Guidelines:**

1. During the clinical training a student is supposed to write a research project work related to the profession of nursing, based on his/her interest.
2. Project work would be under the supervision of internal faculty located for the project guiding appointed by the Principal of college of nursing.
3. The research project would be completed and submitted before the completion of fourth year of the course (i.e. teaching work).
4. Before the submission of project the student will be require to make a presentation before the research committee through power point presentation.
5. The assessment of performance of student will be totally internal and the research committee will assess the student based on his performance.
6. There would be mid-term review of the progress of the project before three members of the research committee appointed by the Principal of college of nursing.
7. The research project work should cover the following area:
  - i. Review of literature on the selected topic and reporting
  - ii. Formulation of problem statement, objective and hypotheses
  - iii. Development of theoretical/conceptual framework.
  - iv. Research methodology conducted during the training period

- v. Analysis and interpretation
- vi. Summary & Conclusion

### **Recommended Books**

1. Polit D.F. & Beck C.T. (2018). *Essentials of Nursing Research: Appraising Evidence for Nursing Practical*. (10th ed.). New Delhi, India: Wolters Kluwer publishers
2. Polit D.F. & Beck C.T. (2017). *Nursing Research - Generating and Assessing Evidence for Nursing Practical*. (11<sup>th</sup> ed.). New Delhi, India: Wolters Kluwer publishers.
3. Basavanthappa B.T. (2014). *Biostatistics for Nurses*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.
4. Sudha R.(2017). *Research and Biostatistics for Nurses (As per INC Syllabus)*.(1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.
5. Dey M. (2016). *A Guide to Nursing Research and Biostatistics (As Per INC Syllabus)*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publishers.

### 4<sup>th</sup> Year Courses

Course Code	Name of Course	Hours	Credits
NSL3415	Midwifery and Obstetric Nursing	90	3

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Describe the anatomy and physiology of female reproductive system

**CLO 2:** Describe the physiology and management of pregnancy, labour and puerperium

**CLO 3:** Identify and manage normal newborn and high risk neonates

**CLO 4:** Identify and manage high risk pregnancy, abnormal labor and puerperium including appropriate referrals

**CLO 5:** Describe indication, dosage, action, side effects and nursing responsibility in administering drugs for mothers

**CLO 6:** Provide youth friendly health services and care for women affected by gender based violence to develop employability skills

#### **Course Content**

Introduction to midwifery and obstetrical nursing: Introduction to concepts of midwifery and obstetrical nursing, trends in midwifery and obstetrical nursing, historical perspectives and current trends, legal and ethical aspects, pre –conception care and preparing for parenthood, role of nurse in midwifery & obstetrical care, national policy and legislation in relation to maternal health and welfare, maternal morbidity, mortality and fertility rates, perinatal, morbidity and mortality rates,

Review of anatomy and physiology of female reproductive system and foetal development: Female pelvis-general description of the bones, joints, ligament, planes of the pelvis diameters of the true pelvis, important landmarks, variations in pelvis shape, female organs of reproductions-external genitalia, internal genital organs and their anatomical, relations, musculature – blood supply, nerves, lymphatic, pelvic cellular tissue, pelvic peritoneum, physiology of menstrual cycle, human sexuality, foetal development, conception, review of fertilization, implantation (embedding of the ovum), development of the embryo and placenta at term functions, abnormalities, the foetal sac, amniotic fluid, the umbilical cord, Foetal circulation, foetal skull, bones, sutures and measurements, review of Genetics, Assessment and management of pregnancy (ante-natal): Normal pregnancy,

physiological changes during pregnancy, reproductive system, urinary system, cardio vascular system, respiratory system, gastro intestinal system, metabolic changes, skeletal changes, skin changes, endocrine system, psychological changes, discomforts of pregnancy, diagnosis of pregnancy, signs, different diagnosis, confirmatory tests, confirmatory tests, ante-natal care, objectives, assessment, history and physical examination, antenatal examination, signs of previous child-birth, relationship of fetus to uterus and pelvis: lie, attitude, presentation position, per vaginal examination, screening and assessment for high risk, risk approach, history and physical examination, modalities of diagnosis, invasive & non-invasive, ultrasonic, cardio tomography, NST, CST, antenatal preparation, antenatal counselling, antenatal exercises, diet, substance use, education for childbirth, husband and families, preparation for safe confinement, prevention from radiation, psycho-social and cultural aspects of pregnancy, adjustment to pregnancy, unwed mother, single parent, teenage pregnancy, sexual violence, adoption, Assessment and management of intra-natal period: Physiology of labor, management of labor, first stage, signs and symptoms of onset of labor, normal and abnormal – duration, preparation of labor room and women, assessment and observation of women in labor, partogram- maternal and fetal monitoring, active management of labor, induction of labor, pain relief and comfort in labor, second stage, signs and symptoms; normal and abnormal, duration, conduct of delivery; principles and techniques, episiotomy (only if required), receiving the new born, neonatal resuscitation; initial steps and subsequent resuscitation, care of umbilical cord, immediate assessment including screening for congenital anomalies, identification, bonding, initiate feeding, screening and transportation of the neonate, third stage, signs and symptoms; normal and abnormal, duration, method of placental expulsion, management; principles and techniques, examination of the placenta, examination of perineum, maintaining records and reports, fourth stage, Assessment and management of women during natal period: Normal puerperium; physiology, duration, postnatal assessment and management, promoting physical and emotional well-being, lactation management, immunization family dynamics after childbirth, family welfare services; method counselling, follow-up, records and reports, Assessment and management of normal neonates: Normal neonate, physiological adaptation, initial & daily assessment, essential newborn care; thermal control, breast feeding, prevention of infections, immunization, minor disorder of newborn and its management, level of neonatal care (level, ii, & iii), at primary, secondary and tertiary levels, maintenance of reports and records, Abnormalities during Postnatal periods: Assessment and management of woman of with postnatal complications,

puerperal infections, breast engorgement & infections, UTI, thrombo-embolic disorders, postpartum hemorrhage, eclampsia and sub involution, psychological complications: post- partum blues, post- partum depression, post- partum psychosis, High-risk pregnancy –assessment & management: Screening and assessment, ultrasonic, cardio tomography, NST, CST, non-invasive, newer modalities of diagnosis, high-risk approach, levels of care; primary, secondary and tertiary levels, disorders of pregnancy, hyper-emesis gravid arum, bleeding in early pregnancy, abortion, ectopic, pregnancy, vesicular mole, ante-partum haemorrhage, uterine abnormality and displacement, diseases complicating pregnancy, medical and surgical conditions, infections, RTI (STD), UTI, HIV, TORCH, gynecological diseases complicating pregnancy, pregnancy induced hypertension & diabetes, toxemia of pregnancy, hydramnios, RH incompatibility, mental disorders, adolescent pregnancy, elderly pregnancy, multipara, multiple pregnancy, abnormalities of placenta & cord, intra-uterine growth-retardation, nursing management of mothers with high-risk pregnancy, maintenance of records and report, Abnormal Labour –assessment and management: Disorder in labor, cpd and contracted pelvis, malposition and malpresentations, premature labor, disorders of uterine actions – precipitate labor, prolonged labor, complications of third stage: injuries to birth canal, obstetrical emergencies and their management, presentations and prolepses of cord, vasa previa, amniotic fluid embolism, rupture of uterus shoulder dissociation, obstetrical shock, obstetrical procedures and operations, induction of labor, forceps, vacuum version, manual removal of placenta, caesarean section, destructive operations, nursing management of women undergoing obstetrical operations and procedures, Assessment and management of High risk new born: Admission of neonates in the neonatal intensive care units-protocols, nursing management of, low birth weight babies, infections, respiratory problems, hemolytic disorders, birth injuries, malformations, monitoring of high-risk neonates, feeding of high-risk neonates, organization and management of neonatal intensive care units, infection control in neonatal intensive care units, maintenance of records and reports, Pharmaco-therapeutics in obstetrics: Indication, dosage, action, contra indication and side effects of drugs, effect of drugs on pregnancy labor & puerperium, nursing responsibilities in the administration of drug in obstetrics –oxytocin antihypertensive, diuretics, troglodytic agents, anti –consultants; analgesics and anesthetics in obstetrics, effects of maternal medication on foetus and neonate, Family welfare programme: Population trends and problems in India, concepts, aims, importance and history of family welfare programme, national population: dynamics, policy and education, national family welfare programme; RCH, ICDS,

MCH. safe motherhood, organization and administration; at national, state, district, block and village levels, methods of contraception; spacing, temporary, and permanent, emergency contraception, infertility and its management, counselling for family welfare, latest research in contraception, maintenance of vital statistics, role of a nurse in family welfare programme, training/supervision/collaboration with other functionaries in community like ANMS. LHVS, anganwadi workers, TBAS (traditional birth attendant-dal)

### **Recommended Books**

1. Konar H. (2015). *Dc Dutta textbook of Obstetrics*. (8<sup>th</sup> ed.). New Delhi, India: Jaypee Publisher.
2. Jacob A. (2019). *A Comprehensive Textbook of Midwifery and Gynecological Nursing*. (5<sup>th</sup> ed.). New Delhi, India: Jaypee Publisher.
3. Sharma J.B.(2015). *Midwifery and Gynaecology Nursing*. (1<sup>st</sup> ed.). KalaAmb, India: Avichal Publishing Company publishers.
4. Balakrishna. Shela. (2016). *Textbook of Obstetrics*. (2<sup>nd</sup> ed.). Delhi, India:Paras Publishing.
5. Kumar S. (2018). *Shaw's Textbook of Gynacology*. (17<sup>th</sup> ed.). New Delhi, India: Elsevier Publishers.

Course Code	Name of Course	Hours	Credits
NSL3416	Community Health Nursing-II	90	3

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Develop the concepts of determinants of health and other environmental factors contributing to health of individual, family and community

**CLO 2:** Develop the knowledge of national health care delivery system and participate in planning and providing the care to individuals and families in the community set up.

**CLO 3:** Describe epidemiological methods and principles of prevention and control of illness in the community.

**CLO 4:** Discuss about effective management of health information in community diagnosis and intervention

**CLO 5:** Describe the management system of delivery of community health services in rural and urban areas

**CLO 6:** Describe the leadership role in guiding, supervising, and monitoring the health services and the personnel at the PHCs, SCs and community level including financial management and maintenance of records & reports to evolve employability skills

### Course Content

Introduction: Definition, concept & scope of community health and community health nursing, historical development of community health and community health nursing, pre-independence, post- independence, Health planning and polices and problems: National health planning in India- five-year plans, various committees and commissions on health and family welfare, central council for health and family welfare (CCH and FW), national health polices (1983, 2002), health problems in India, Delivery of community health services: Planning, budgeting and material management of SCs, PHC and CHC rural: organization, staffing and functions of rural health services provided by government at: village, sub centre, primary health centre, community health centre/sub divisional, hospital, district, state, centre, urban: organization, staffing and function of urban health services provided by government at: slums, dispensaries, maternal and child health centres, special clinics, hospitals, corporation /municipality/board, components of health services, environmental sanitation, health education, vital statistics M.C.H. –antenatal, natal, postnatal, medical termination of



pregnancy act, female foeticide act, child adoption act, family welfare, national health programmes, school health service, occupational health, defence services, institutional services, systems of medicine and health care allopathic, Indian system of medicine and homeopathy, alternative health care systems like yoga, meditation, social and spiritual healing etc, referral system, Community health nursing approaches, concepts and roles and responsibilities of nursing personal: Approaches, nursing theories and nursing process, epidemiological approach, problem solving approach, evidence based approach, empowering people to care for themselves, concepts of Primary Health Care: Equitable distribution, community participation, focus on prevention, use of appropriate technology, multi-sectoral approach, roles and responsibilities of Community health nursing personnel in family health services, information education communication (IEC), management Information system (MIS): Maintenance of Records & reports, training and supervision of various categories of health workers, national Health Programmes, environment sanitation, maternal and child health and family welfare, treatment of minor ailments, school Health Services, occupational Health, organization of clinics, camps; types, preparation, planning conduct and evaluation, waste management in the centre clinic etc., home visit: concept, principles, process, techniques: Bag technique home visit, qualities of community health nurse, job description of community health nursing personal, Assisting individuals and groups to promote and maintain their health, empowerment for self-care of individuals, families and groups : Assessment of self and family, monitoring growth and development, milestones, weight measurement, social development, temperature and blood pressure monitoring, menstrual cycle, breast self-examination and testicle examination, warning signs of various diseases, tests; urine for sugar and albumin, blood sugar, Seek health services for: routine check-up, immunization, counselling, diagnosis, treatment, follow up, maintenance of health records for self and family, continue medical care and follow up In community for various disease and disabilities, carryout therapeutic procedures as prescribed /required for self and family, waste management, collection and disposable of waste at home and community, sensitize and handle social issue affecting health and development self and family, women empowerment, women and child abuse, abuse of elders, female foeticide, commercial sex workers, food adulteration, substance abuse, utilize community resources for self and family, trauma services, old age homes, orphanage, home for physically and mentally challenged individuals, homes for destitute, National health and family welfare programmes and the role of a nurse: National ARI programme, revised National Tuberculosis Control Programme (RNTCP),

national anti-malaria programme, national filaria control programme, national guinea worm eradication programme, national Leprosy eradication programme, national AIDS control programme, sexually transmitted diseases control programme, national programme for control blindness, iodine deficiency disorder programme, expanded programme on immunization, national: family welfare programme –(RCH) reproductive child health programme historical development, organization, administration, research, constraints, national water supply and sanitation programme, minimum need programme, national diabetics control programme, polio eradication: pulse polio programme, national cancer control programme, yaws eradication programme, national nutritional anaemia prophylaxis programme, 20 point programme, integrated child development services scheme (ICDS) programme, mid-day meal applied nutritional programme, national mental health programme, health schemes, employee state insurance(ESI), central government health scheme(CGHS), health insurance, Health Agencies : International – world health organisation, united nations population fund (UNFPA), united nations development programme, world bank, food and agriculture organization, united nations children’s fund, Danish international development agency, European Commission (EC), Red cross, united states agency for international development (USAID), united nations educational, scientific and cultural organization (UNESCO), colombo plan, international labour organization (ILO), cooperative for assistance and relief everywhere (CARE) etc., national- indian red cross, indian council for child welfare, family planning association of India, tuberculosis association of India, Hindu Kusht Nivaran Sangh, central social welfare board, all India women’s conference, blind association of India etc.

### **Recommended Books**

1. Manivannan S. D. (2017). *Textbook of Community Health Nursing-I*. Chennai, India: CBS Publishers.
2. Basvanthapa B.T. (2015). *Community Health Nursing*. New Delhi, India: Jaypee Brothers Medical Publishers.
3. Park K. (2019). *Park's Textbook of Preventive and Social Medicine*. Banarsidas Bhanot Publishers.
4. Gulani K K. (2019). *Community Health Nursing: Principle & Practice*. (3rd edi.). New Delhi, India: Kumar Publisher

5. Saxena P. R. (2019). *Textbook of Community Health Nursing-II*. Jalandhar, India: Lotus Publications.

Course Code	Name of Course	Hours	Credits
NSL3417	Management of Nursing Services and Education	90	3

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Describe the principles and techniques of management and administration in clinical and community health nursing services.

**CLO 2:** Explain and utilize the principles and methods of personnel management, planning, organization, coordinating, organization and budgeting in the hospital wards and community health centres.

**CLO 3:** Planning and managing the nursing educational services in order to develop the nursing profession.

**CLO 4:** Identify dynamics of organizational behaviour, styles and functions of effective leadership to inculcate entrepreneurship abilities

**CLO 5:** Demonstrate beginning competencies in planning, organizing and staffing at college including implementation and evaluation of curriculum to enhance the employability skills

**CLO 6:** Identify the legal issues and laws relevant to nursing practice and education.

### Course Content

Introduction, definition, concepts and theories, functions of management, principles of management, role of a nurse as a manager, Management process, planning; mission, philosophy, objectives, operational plan, staffing: philosophy, staffing study, norms, activities, patient classification system, scheduling, human resource management; recruiting, selecting, deployment, retaining, promoting, super annotation etc, budgeting: concept, principles, types, cost benefit analysis, audit, material management: equipment and supplies, directing process (leading), controlling: quality management, program evaluation review technique (pert), (bench) marking, activity plan (Gant chart), Management of nursing services in the hospital and community, planning: hospital and patient care units including ward management, emergency and disaster management, human resource management: recruiting, selecting, development, retaining promoting, superannuation etc. categories of nursing personnel maturing job description of all levels, patient/ population classification systems, patients/population assignment and nursing care responsibilities, staff development and welfare, budgeting: proposal projecting, requirement for

staff, equipment and supplies for hospital and patient care units, emergency & disaster management, material management procurement inventory control, auditing maintenance in hospital & patient care unit. emergency & disaster management, directing & leading, delegation participatory management assignments, rotations delegations, supervision & guidance, implement standards policies, processors & practices, staff development & welfare, maintenance of discipline, controlling evaluation nursing rounds, visits, nursing protocols manuals, records and reports performance appraisal, quality assurance model, documentation, Organizational behaviour and human relations, concepts and theories of organizational behaviours, review of channels of communication, leadership styles, review of motivation; concepts and theories, group dynamics, techniques of communication and interpersonal relationships, human relations, public relation in context of nursing, public relations with profession and employee union and collective bargaining, In service education, nature & scope of in-service education program, organization of in-service education, principles of adult learning, planning for in-service education program, techniques, methods & evaluation of staff education, preparation of report, Management of nursing educational institutions, establishment of Nursing educational institutional-Indian nursing council (INC) norms and guidelines, co-ordination with-regulatory bodies, accreditation, affiliation, philosophy/objective, organization, structure, committees, physical facilities, college/school, hostel, students, selection, admission, guidance and counselling, maintaining discipline, faculty and staff, selection, requirement, job discussion, placement, performance appraisal, development and welfare, budgeting, equipment and supplies: audio visual equipment, laboratory equipment, books, journals etc. , curriculum; planning implementation and evaluation, clinical facilities, transport facilities, institutional records and reports- administrative, faculty, staff and students, Nursing as a profession, nursing as a profession, philosophy; nursing practice, aims and objectives, characteristics of a professional nurse, regulatory bodies; INC, SNC ACTS:- constitution, functions, current trends and issues in nursing, professional ethics, code of ethics; INC, ICN, code of professional conduct; INC, ICN, practice standards for nursing; INC, consumer protection act, legal aspects in nursing, legal terms related to practice; registration and licensing, laws related to nursing practice; breach and penalties, malpractice and negligence, Professional advancement: continuing education, career opportunities, collective bargaining, membership with professional organizations; national and international, participation in research activities, publications; journals, newspapers etc.

## Recommended Books

1. Vati J. (2013). *Principles and practice of Nursing Management Administration*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee publishers.
2. Rohini T. & Jisa T. *Textbook of nursing Management and services for B.Sc Nursing*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee publishers.
3. G. Sigamany. *Nursing Service Administration*. (1<sup>st</sup> ed.). New Delhi, India: Wolters Kluwer publishers.
4. Huston C.J. & Marquis B.L. (2012). *Leadership roles and Management Functions in Nursing*. ( 7<sup>th</sup> ed.). New Delhi, India: Wolters Kluwer publishers.
5. Konnur R. G. *Textbook of Nursing Management*. (1<sup>st</sup> ed.). Delhi, India: Notion publishers.

Course Code	Name of Course	Hours	Credits
LDP1418	Leadership Development & Practice (CBCS)	30	1

**Course learning outcomes:** Students will be able to:

**CLO 1:** Analyze the health problems and societal forces, health economics and politics in relation to corresponding national health policy and population policy.

**CLO 2:** Analyze the historical roots and current status of contemporary nursing science.

**CLO 3:** Explicate the paradigms of inquiry which influence the investigation of nursing phenomena.

**CLO 4:** Demonstrate skill in developing and testing conceptual models that will impact nursing science

**CLO5:** Describe the concept of nursing science, philosophy.

**CLO 6:** Correlate nursing science, nursing practice and nursing research.

**Scope and objective of the course:**

This course is designed to prepare the doctoral student to identify and utilize the nursing science and leadership roles as a basis for analyzing, developing and implementing national health policy and population policy and development of nursing profession. This course also enables the student to trace the historical development and current status of nursing science in the context of the philosophy and history of science and study of nursing as a scientific discipline. Further it is designed to facilitate the refinement of the critical skills necessary for analyzing and evaluating theoretical formulations, synthesizing theoretical components into conceptual models and developing testable hypotheses.

**Course Content**

Introduction to nursing science, study & history of philosophy- Concept of nursing science, philosophy and its history, history and philosophy of nursing science, nursing as a science discipline, Paradigms that influence approach to nursing science development- Development of Nursing knowledge, development of nursing as a science, epistemological and ontological assumptions in relation to the generation of nursing .knowledge, Epistemology, Nursing

knowledge and development- Epistemological and ontological assumptions of diverse approaches to knowledge generation in nursing., concept of epistemology, stages of theory development and evaluation of theories, classification and importance of theories and issues in theory development, Nursing Theories- Concept, classification and importance of theories and issues in theory development, nursing theorists and the associated nursing theories, the analysis and evaluation of various nursing theories, Inter relationships between science, theory, practice and research in nursing- The interrelatedness of nursing theories and nursing science, nursing practice and nursing research.

**Recommended Books:**

1. Maequis L. B. & Huston J. C. (2017). *Leadership Roles and Management Functions in Nursing: Theory and Application*. (9th ed.). Philadelphia, United states: Lippincott Williams & Wilkins.
2. Thappa P. (2013). *Leadership and Management for Nurses*. New Delhi, India: Jaypee Brothers Medical Publishers.
3. Whitehead k. D., Wiess A. S. & Tappen M. R. *Essentials of Nursing Leadership and Management*. (4<sup>th</sup> ed.). Philadelphia, United states: F.A. Davis Company.
4. Murray E. (2017). *Nursing Leadership and Management for Patient Safety and Quality Care*. Philadelphia, United states: F.A. Davis Company.
5. Grossman S. & Valiga M. T. (2018). *The New Leadership Challenge Creating the Future of Nursing*. (5th ed.). Philadelphia, United states: F.A. Davis Company.



Course Code	Name of Course	Hours	Credits
ARM2419	Advanced Research Methodology (CBCS)	45	2

**Course Learning Outcomes:** After the completion of this course, the students will be able to:

**CLO 1:** Understand the terms and concepts of advanced research methodology

**CLO 2:** Applying the knowledge of the research process through identification of research problems, literature review, designing the research study, collecting the data and analysing the data and presenting the data

**CLO 3:** Conduct the research projects at national and international levels

**CLO 4:** Gain the skills for dissemination of knowledge through communication of research findings to the nursing fraternity

**CLO 5:** Apply inferential and descriptive statistics to the data set independently

**Scope and objective of the course:**

- This course is designed to enable students to develop and understand basic concepts of research, research process and statistics.
- It is further structured to conduct/participate in need based research studies in various settings and utilize the research findings to provide quality nursing care. The hours for practical will be utilized for conducting Individuals /group research projects.

**Course Content**

Fundamentals of Statistics- Introduction to basic statistics, Introduction to SPSS, Data view and variable review, ethical consideration in data collection, ethical guidelines for statistical practices, creating variables, SPSS commands (Popular 10 commands in SPSS), Distribution of Data and Hypotheses Testing – Frequency distribution, central tendency and distribution analysis, outlier testing, cross tabulation and chi square test, Test of difference – T test and Z test, One sample T test, Independent sample T test and paired sample T test. Parametric vs Non Parametric tests, test of normality, Z-Scores, sampling distribution, level of significance, P-value, Chi-Square test, Pearson’s Chi- Square statistic, Phi & Cramer’s V Statistic, Somer’s D, Odd Ratio, MC Nemar test, Bivariate Statistical Analysis (Parametric and Non-Parametric) - Important Parametric Tests, Testing of the assumptions, Hypothesis Testing of Means, Hypothesis Testing for Differences

between Means, Comparing Two Related Samples, Hypothesis Testing of Correlation Coefficients, Simple Regression Analysis, Multiple Correlation and Regression, Important Nonparametric or Distribution-free Test, Relationship between Spearman's  $r$ 's and Kendall's  $W$ , Multivariate Data Analysis -Exploratory factor analysis, confirmatory factor analysis, structural equation modeling, cluster analysis, research proposal formulation; ethical issues in preparing research proposal

**Recommended Books:**

1. Sharma S.K. (2014). *Nursing Research & Statistics*. (2<sup>nd</sup> ed.). New Delhi, India: Elsevier Publishers.
2. Polit D.F. & Beck C.T. (2017). *Nursing Research*. (10<sup>th</sup> ed.). Philadelphia, USA: Lippincott Williams &Wilkins Publishers.
3. Kothari C. R. (2014). *Research Methodology*. (2<sup>nd</sup> ed.). New Delhi, India: New age international publishers.
4. Kaur S. & Singh A. (2016). *Simplified Nursing Research and Statistics for undergraduates* (1<sup>st</sup> ed.). New Delhi, India: CBS Publishers.
5. Khanal A.B. (2016). *Mahajan's Methods in Biostatistics for Medical Students and research Workers*. (8<sup>th</sup> ed.). New Delhi, India: Jaypee Publishers.

Course Code	Name of Course	Hours	Credits
NSP9408	Midwifery and Obstetrical Nursing (Practical)	360	12

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Perform antenatal assessment and care to pregnant women with normal and high-risk pregnancy

**CLO 2:** Carry out per- vaginal examinations and assessment of women in labor and provide her adequate nursing care

**CLO 3:** Conduct Normal Vaginal delivery independently and assist in conducting caesarean section

**CLO 4:** Perform assessment of postnatal mother and provide her adequate nursing care

**CLO 5:** Provide nursing care to newborn and provide the counselling to the couple regarding family planning methods

**CLO 6:** Demonstrate competencies/ skills in providing respectful and evidence based maternity care for women during antenatal, intranatal and postnatal period.

### Course Content

ANTENATAL CLINIC/OPD- physical examination, recording of weight & blood pressure, Hb, & urine testing for sugar and albumin, examination-abdomen and breast, immunization, assessment of risk status, teaching antenatal mothers, maintenance of antenatal records, LABOUR ROOM OT- Assessment of women in labor, per vaginal examinations and interpretation, monitoring and caring of woman in labor, maintenance of partograph, conduct normal delivery, newborn assessment and immediate care, resuscitation of newborns, assessment of risk status of newborn, episiotomy and suturing, maintenance of labor and birth records, arrange for and assist with caesarean section and care for woman & baby during caesarean, arrange for and assist with mtp and other surgical procedures, POST NATAL WARD: Examination and assessment of mother and baby, identification of deviations, care of postnatal mother and baby, perineal management, breast feeding, baby bath, immunization, teaching postnatal mother: mother craft, post -natal care & exercises, immunization, NEW BORN NURSERY- Newborn assessment, assessment of neonates, feeding of high-risk neonates, katori spoon, paladin, tube feeding, total parenteral nutrition, thermal management of

neonates-kangaroo mother care, care of baby in incubator, monitoring and care of neonates, administering medications, intravenous therapy, assisting with diagnostic procedure, assisting with exchange transfusion, care of baby on ventilator, phototherapy, infection control protocols in the nursery, teaching and counselling of parents, maintenance of neonatal records, FAMILY PLANNING CLINIC- Counselling technique, insertion of IUD, teaching on use of family planning methods, arrange for and assist with family, maintenance of records and reports, essential requirements for registration as midwife, antenatal examination – 30, conducting normal deliveries in hospital /home /health centre -20, vaginal examination – 05, episiotomy and suturing – 05, neonatal resuscitation – 05, assist with caesarean section – 02, witness/assist abnormal deliveries – 05, postnatal cases nursed in hospital /home/health centre -20, insertion of IUD – 20.

**Note:** All casebooks must be certified by teacher on completion of essential requirements.

### **Recommended Books**

1. Konar H. (2015). *Dc Dutta textbook of Obstetrics*. (8<sup>th</sup> ed.). New Delhi, India: Jaypee Publisher.
2. Jacob A. (2019). *A Comprehensive Textbook of Midwifery and Gynecological Nursing*. (5<sup>th</sup> ed.). New Delhi, India: Jaypee Publisher.
3. Sharma J.B.(2015). *Midwifery and Gynaecology Nursing*. (1<sup>st</sup> ed.). KalaAmb, India: Avichal Publishing Company publishers.
4. Balakrishna. Shela. (2016). *Textbook of Obstetrics*. (2<sup>nd</sup> ed.). Delhi, India:Paras Publishing.
5. Kumar S. (2018). *Shaw's Textbook of Gynacology*. (17<sup>th</sup> ed.). New Delhi, India: Elsevier Publishers.

Course Code	Name of Course	Hours	Credits
NSP5409	Community Health Nursing-II (Practical)	135	5

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Complete a basic assessment of a family in the community with due consideration to multiple determinants of health and document and maintain individual, family and administrative records.

**CLO 2:** Monitor health trends and identify health risk factors unique to specific communities

**CLO 3:** Design and implement health education campaigns and disease prevention activities and evaluate the effectiveness of care and health education through follow up.

**CLO 4:** Act in a manner consistent with professional code of ethics, responsibilities and standards of practice.

**CLO 5:** Demonstrate competencies/skills relevant to provide comprehensive primary health care/community- based care to clients with common diseases

**CLO 6:** Demonstrate skills in proper bio-medical waste management as per protocols

### Course Content

Community health survey, community diagnosis, family care: home adaptation of common procedures, home visit: bag technique, organize and conduct clinics-antenatal, post-natal, well baby clinic, camps etc., screen manage and referrals for: high risk mothers and neonates, accidents and emergencies illness: physical and mental, disabilities, conduct delivery at center /home: episiotomy and suturing, resuscitate newborn, school health programme, screen, manage, refer children, collaborate with health and allied agencies, train and supervise health workers, provide family welfare services: insertion of intrauterine devices, provide family welfare services: insertion of iud, counsel and teach individual, family and community about: HIV, TB, diabetes, hypertension, mental health adolescent elderly's health physically and mentally challenged individuals etc., collect and calculate vital health statistics, document and maintain, individuals, family and administrative records, write reports-center, disease, national health programme /projects, new national health programs, Ayushman Bharat- the upgradation of subcenters in to health and wellness centers, concept of comprehensive primary health care and key elements of CPHC, service

delivery and continuum of care and roles of mid-level health care providers, diagnosing and treatment skills essential at subcenters level using standard treatment protocols as per national health programs, introduction to rastriya bal sureksha karayakaram social mobilization skills, drug dispensing, programme management including supervision and monitoring, investigation of an outbreak, behavior changes communication and soft skills, integrated disease surveillance project. mother and child tracking system, chikungunya, organization of labor room, safe childbirth check list, postpartum visit by health workers, family planning 2020, national family planning programs, food borne diseases.

### **Recommended Books**

1. Basvanthapa B.T. (2015). *Community Health Nursing*. New Delhi, India: Jaypee Brothers Medical Publishers.
2. Cement I. (2012). *Manual of Community Health Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
3. Kaur B. (2012). *Community Health Nursing Procedures*. New Delhi, India: Jaypee Brothers Medical Publishers.
4. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.
5. Ray K. S. (2017). *Community Nursing Procedure Manual*. Chennai, India: CBS Publishers.

Course Code	Name of Course	Hours	Credits
NSP9410	<b>Internship (Integrated Practice)</b> <ul style="list-style-type: none"> <li>• Community Health Nursing</li> <li>• Midwifery &amp; Obstetrical Nursing</li> <li>• Medical Surgical Nursing</li> <li>• Child Health Nursing</li> <li>• Mental Health Nursing</li> </ul>	1110	37

**Course Learning Outcomes:** After the completion of this course, students will be able to

**CLO 1:** Provide holistic need based independent nursing care based on identified priority needs of the clients

**CLO 2:** Apply problem solving approach to resolve the problems of client and able to take responsibility in the management of patient care to inculcate managerial skills

**CLO 3:** Involve in the need-based research to improve patient quality and contribute to professional advancement

**CLO 4:** Collaborate with the health team members in the need-based research for the improvement of Quality care

**CLO 5:** Participate in national health program to hone clinical skills

### **Community Health Nursing : 200 Hours**

#### **Course Content**

Train and supervise Health workers. Provide family welfare services. Collaborate with health and allied agencies. Roles and responsibilities of mid- level health care providers (MLHP) , New national health programmes , AYUSHMAN BHARAT – the up gradation of sub-centres into of health and wellness centres, concept of comprehensive primary health care and key elements of CPHC, service delivery and continuum of care and roles of midlevel health care providers (MLHP) diagnosis and treatment skills essential at sub-centre level using standard treatment protocols as per national health programmes , Introduction to Rashtriya Bal Suraksha Karyakram (RBSK), Social mobilization skills, Drug dispensing., Program management including supervision and monitoring , Investigation of an outbreak, Behaviour change communication and soft skills , Integrity disease surveillance project (IDSP) , Mother and child tracking system (MCTS) , Chikungunya ,

Organization of labour room , Safe child birth checklist , Postpartum visit by health worker , Family planning by 2020, National mental programme, Food borne diseases

**Topics to be reviewed:** Health planning and health care delivery system in India (IPHS guidelines), Health management information system (HMIS), Electronic medical record (EMS), Micro-birth planning, Adolescent counselling, Resources of vital statistics, Financial management, accounts and computing at sub centre, Mental health act, drug de addiction programmes, Time trends and disease occurrence in epidemiology, Infant and young child feeding and counselling, Nutrition across life cycle and update on national nutrition programmes, Use of equipment, Throat problems and febrile seizures in children, Transport of baby and common accidents and mishaps in labor room, Counselling- GATHER Approach, Update biomedical waste management by specifying biomedical management rules, Suturing of superficial wound, Postpartum intrauterine contraceptive device (PPIUCD), All the national health programmes on communicable and non-communicable.

### **Recommended Books**

1. Basvanthapa B.T. (2015). *Community Health Nursing*. New Delhi, India: Jaypee Brothers Medical Publishers.
2. Cement I. (2012). *Manual of Community Health Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
3. Kaur B. (2012). *Community Health Nursing Procedures*. New Delhi, India: Jaypee Brothers Medical Publishers.
4. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.
5. Ray K. S. (2017). *Community Nursing Procedure Manual*. Chennai, India: CBS Publishers.



## **Midwifery & Obstetrical Nursing: 240 Hours**

### **Course Content**

Posting in labour room, NICU, antenatal to provide comprehensive care to mother and neonates, completion of case book recordings. ANTENATAL CLINIC/OPD- physical examination, recording of weight & blood pressure, Hb, & urine testing for sugar and albumin, examination- abdomen and breast, immunization, assessment of risk status, teaching antenatal mothers, maintenance of antenatal records, LABOUR ROOM OT- Assessment of women in labor, per vaginal examinations and interpretation, monitoring and caring of woman in labor, maintenance of partograph, conduct normal delivery, newborn assessment and immediate care, resuscitation of newborns, assessment of risk status of newborn, episiotomy and suturing, maintenance of labor and birth records, arrange for and assist with caesarean section and care for woman & baby during caesarean, arrange for and assist with mtp and other surgical procedures, POST NATAL WARD: Examination and assessment of mother and baby, identification of deviations, care of postnatal mother and baby, perineal management, breast feeding, baby bath, immunization, teaching postnatal mother: mother craft, post -natal care & exercises, immunization, NEW BORN NURSERY- Newborn assessment, assessment of neonates, feeding of high-risk neonates, katori spoon, paladin, tube feeding, total parenteral nutrition, thermal management of neonates-kangaroo mother care, care of baby in incubator, monitoring and care of neonates, administering medications, intravenous therapy, assisting with diagnostic procedure, assisting with exchange transfusion, care of baby on ventilator, phototherapy, infection control protocols in the nursery, teaching and counselling of parents, maintenance of neonatal records,

### **Recommended Books**

1. Konar H. (2015). *Dc Dutta textbook of Obstetrics*. (8<sup>th</sup> ed.). New Delhi, India: Jaypee Publisher.
2. Jacob A. (2019). *A Comprehensive Textbook of Midwifery and Gynecological Nursing*. (5<sup>th</sup> ed.). New Delhi, India: Jaypee Publisher.
3. Sharma J.B.(2015). *Midwifery and Gynaecology Nursing*. (1<sup>st</sup> ed.). KalaAmb, India: Avichal Publishing Company publishers.
4. Balakrishna. Shela. (2016). *Textbook of Obstetrics*. (2nd ed.). Delhi, India:Paras Publishing.
5. Kumar S. (2018). *Shaw's Textbook of Gynacology*. (17<sup>th</sup> ed.). New Delhi, India: Elsevier Publishers.

## Medical Surgical Nursing: 430 Hours

### Course Content

Posting in medical ward, surgical ward, ICU/CCU, emergency, operation theatre (eye, ENT, neuro) to provide comprehensive care to the patients with various medical & surgical conditions and performing various procedures such as taking history, perform general and specific physical examination, identify alterations and deviations, practice medical surgical asepsis-standard safety measures, administer medications, oral, IV, IM, subcutaneous, iv therapy, IV cannulation, maintenance and monitoring, oxygen therapy by different methods, nebulization, chest physiotherapy, naso-gastric feeding, assist in common diagnostic, perform /assist in the therapeutic procedures, blood and component therapy throat suctioning, collect specimens for common investigations, maintain elimination, catheterization, bowel wash, enema, urinary, maintain intake, output, and documentation counsel and teach related to specific disease conditions etc. Operation theatre: scrubbing, gowning, gloving, identify instruments, suturing materials for common operations, disinfection, carbonization, fumigation, preparation of instrument sets for common operations, sterilization of sharps and other instruments, prepare the OT table depending upon the operation, positioning and monitoring of patients, endotracheal intubation, assisting in minor and major operations, handing specimens, disposal of waste as per the guidelines.

### Recommended Books

1. Chitnamani. & Mani M. (2018). *Lewis's Medical-Surgical Nursing Assessment and Management of Clinical Problems*. (3<sup>rd</sup> ed.). New Delhi, India: Elsevier.
2. Sharma K. S., Madhani S. (2017). *Brunner & Suddarth's Textbook of MSN*. (2<sup>nd</sup> Vol.). Neitherland: Wolter Kluwer.
3. Basavanthappa B. T. (2015) *Medical Surgical Nursing*. (2<sup>nd</sup> ed.). New Delhi, India: Jaypee Brothers Medical Publishers.
4. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.
5. Hoffman & Sullivan (2016). *Davis Advantage for Medical Surgical Nursing: Making Connections to Practice*. Philadelphia, United states: F.A. Davis Company.

## **Child Health Nursing: 145 Hrs**

### **Course Content**

Posting in paediatric medical ward/ICU, paediatric surgical ward/ICU, NICU to provide comprehensive care to children/neonates with medical conditions and surgical conditions: taking paediatric history, physical examination and assessment of children, administer of oral, IM & IV medicine/fluid, calculation of fluid requirements, prepare different strength of intravenous fluid fluids, apply restraints, administer O2 inhalation by different methods, give baby bath, feed children by katori, spoon etc, collect specimens for common investigations, assist with common diagnostic procedures, teach mothers/parents: malnutrition, oral rehydration therapy, feeding & weaning, immunization schedule, play therapy, specific disease conditions, bowel wash, care for ostomy: colostomy irrigation, ureterostomy, gastrostomy, enterostomy, urinary catheterization and drainage, feeding: naso-gastric, jejunostomy, care of surgical wounds: dressing, suture removal, care of a baby incubator/warmer, care of a child on ventilator, endo tracheal suction, chest physiotherapy, administer fluids with infusion pump, total parenteral nutrition, phototherapy, monitoring of babies, cardiopulmonary resuscitation.

### **Recommended Books**

1. Padmaja A. (2014). *Pediatric Nursing Procedure Manual*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publisher.
2. Kalia R. (2014). *Pediatric Nursing Procedure*. (1<sup>st</sup> ed.). New Delhi, India: Jaypee Publisher.
3. Singh M. (2015). *Drug Dosages in Children*. (1<sup>st</sup> ed.). New Delhi, India: CBS Publishers.
4. Singh M. (2017). *Pediatric - Clinical Methods*. (8<sup>th</sup> ed.). New Delhi, India: CBS Publishers.
5. Chheda M. K. (2019). *Practical Aspects of Paediatrics*. (8<sup>th</sup> ed.). New Delhi, India: CBS Publishers.

## **Mental Health Nursing: 95 Hours**

### **Course Content**

Posting in psychiatric wards to provide comprehensive care to the patients with mental health problems: history taking, performs mental status examination, assist in psychometric assessment, perform neurological examination, observe and assist in therapies, teach patients and family members, record therapeutic communication, administer medications, assist in electroconvulsive therapy, participate in all therapies, prepare patients for activities of daily living, conduct admission and discharge counselling, counsel and teach patients and families.

### **Recommended Books**

1. Townsend C. M. & Morgan I. K. (2017). *Psychiatric Mental Health Nursing Concepts of Care in Evidence-Based Practice*. (9<sup>th</sup> ed.). Philadelphia, United states: F.A. Davis Company.
2. Shives R. L. (2008). *Basic Concepts of Psychiatric: Mental Health Nursing*. Philadelphia, United states: Lippincott Williams & Wilkins.
3. Sreevani R. (2004). *A guide to Mental Health Psychiatric NURSING*. (4<sup>th</sup> ). New Delhi, India: Jaypee Publisher.
4. Baputty S., Sethi S. & Hitam S. (2014). *Mental Health Nursing*. (1<sup>st</sup> ed.). Oxford, United Kingdom: Oxford University Press.
5. Ghai S. (2019). *Clinical Nursing Procedures Pgimer National Institute of Nursing Education*. (1<sup>st</sup> ed.). Chennai, India: CBS Publishers.

**Appendix A: Mapping of Program Outcomes with Course Outcomes**

Course Code	Title of the Course	Course Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
NSL 9101	Nursing Foundations	<b>CLO 1:</b> Describe the concepts of health, health-illness continuum & health care delivery system		H									L	
		<b>CLO 2:</b> Describe the concepts, theories and models of nursing practice			M				H					
		<b>CLO 3:</b> Implement the theoretical knowledge in clinical settings and prepare and implement nursing care plan for assigned patient based on nursing process.	H					H				H		
		<b>CLO 4:</b> Perform health assessment following proper sequence and provide basic nursing care to patient using universal precautions with proper documentation to build up employability.				H					M			
		<b>CLO 5:</b> Abide by the code of ethics and professional conduct.				H								M
		<b>CLO 6:</b> Communicate effectively with patient, families and health care team.									H		M	
		<b>CLO 1:</b> Explain the general and microscopic structure of each system of the body	M										H	
		<b>CLO 2:</b> Describe the anatomical												

<b>NSL4102</b>	<b>Anatomy and Physiology</b>	structure, organization and functions of various organ systems of human body	M						H				
		<b>CLO 3:</b> Identify relative anatomic positions of the major body organs and relative contribution of each organ system towards maintenance of homeostasis.	H			H			M	H			
		<b>CLO 4:</b> Explore the effects of alterations in structures and functions						M					H
		<b>CLO 5:</b> Apply knowledge of anatomic structures and physiological basis to analyze clinical situations and therapeutic applications to strengthen up employability				H					M		
<b>NSL3103</b>	<b>Nutrition and Biochemistry</b>	<b>CLO 1:</b> Describe the principle, essentials of nutrition & its relationship to health		H									
		<b>CLO 2</b> Identify nutritional needs of different age groups and plan a balanced diet for them.	L										
		<b>CLO 3:</b> Explain digestion, absorption, metabolism of carbohydrates, proteins, fats, vitamins and minerals		H									
		<b>CLO 4:</b> Apply nutrient and dietary modifications in caring patients	L										

		<b>CLO 5:</b> Prepare meals using different methods and cookery rules to hone the skills												
<b>NSL2104</b>	<b>Psychology</b>	<b>CLO 1:</b> Identify the importance of psychology in individual and professional life.	L											
		<b>CLO 2:</b> Develop understanding of the biological and psychological basis of human behaviour.	L											
		<b>CLO 3:</b> Identify the cognitive and affective needs of clients.	M	M	H				H					
		<b>CLO 4:</b> Integrate the principles of motivation and emotion in performing the role of nurse in caring for emotionally sick client.			L							H		
		<b>CLO 5:</b> Apply the knowledge of self-empowerment in workplace, society and personal life to build up employability							H			M		
<b>NSL2105</b>	<b>Microbiology</b>	<b>CLO 1:</b> Identify the ubiquity and diversity of microorganisms in the human body and the environment.			M									
		<b>CLO 2:</b> Classify and explain the morphology and growth of microbes.			M									
		<b>CLO 3:</b> Identify various types of microorganisms.			M									
		<b>CLO 4:</b> Explore mechanisms by												

		which microorganisms cause disease.		H	M		M							
		<b>CLO 5:</b> Apply the principles of preparation and use of vaccines in immunization to enhance employability skills						L				M		
CLW2101	English	<b>CLO 1:</b> Apply the concepts and principles of English Language use in professional development to enhance the employability								H				
		<b>CLO 2:</b> Converse effectively, appropriately and timely within the given context and the individual or team they are communicating with either face to face or by other means.								H			M	
		<b>CLO 3:</b> Read, interpret and comprehend content in text, flow sheet, framework, figures, tables, reports, anecdotes etc.									M			M
		<b>CLO 4:</b> Analyze the situation and apply critical thinking strategies to develop skills of entrepreneurship.							H					
		<b>CLO 5:</b> Enhance expressions through writing skills.										M		
CSL2103	Introduction to Computers	<b>CLO 1:</b> Develop a basic understanding of computer application in patient care and nursing practice.				L								
		<b>CLO 2:</b> Utilize the												



		functionalities of Nursing Information System (NIS) system in nursing.						H			H			M	
		<b>CLO 3:</b> Demonstrate the skills of using data in management of health care.						H							
		<b>CLO 4:</b> Apply the knowledge of the principles of digital ethical and legal issues in clinical practice.	L								H				
		<b>CLO 5:</b> Utilize evidence-based practices in informatics and technology for providing quality patient care.							M					H	
NSP9101	Nursing Foundations (Practical)	<b>CLO 1:</b> Perform the various activities starting from admission till the discharge of the patient	M		M	M									
		<b>CLO 2:</b> Collect complete history and perform health assessment to each body system	M												
		<b>CLO 3:</b> Construct and implement nursing care plan for assigned patient based on nursing process.	H	M	H	M									
		<b>CLO 4:</b> Provide basic nursing care and perform the nursing procedures using universal precautions with proper sequence and documentation to enhance clinical skills in various health care settings	H												

		<b>CLO 5:</b> Communicate effectively with patient, families and health care team.		L	H					H				
NSL2206	Sociology	<b>CLO 1:</b> Identify the scope and significance of sociology in nursing.			M					H				
		<b>CLO 2:</b> Apply the knowledge of social structure and different culture in a society in identifying social needs of sick clients.								L				
		<b>CLO 3:</b> Identify the impact of culture on health and illness.			L						L			
		<b>CLO 4:</b> Develop understanding about social organization and disorganization and social problems in India.	L		L						M			
		<b>CLO 5:</b> Integrate the knowledge of clinical sociology and its uses in crisis intervention to enhance the employability skillset.	L					M						H
	Medical	<b>CLO 1:</b> Participate as members of health team in caring for clients in hospital.	M		H					M	L	M	M	
		<b>CLO 2:</b> Perform complete health assessment to establish a data base for providing quality patient care and integrate the knowledge of anatomy, physiology and diagnostic tests in the process of data collection to amplify the employability prowess	H	M	M	H					M			

NSL7207	Surgical Nursing-I	CLO 3: Demonstrate skills in providing comprehensive nursing care within framework of ethics and legal principles.	H	H	H	M			H				
		CLO 4: Explain nursing care based on the steps of nursing practice in collaboration with individual and groups.	H		H						M		
		CLO 5: Describe universal precautions while providing care to the patients who suffer from various communicable diseases.	M	M			M						
NSL3208	Pharmacology, Pathology & Genetics	CLO 1: Describe pharmacodynamics, pharmacokinetics, classification and side effects of different drugs and medications and principle of drug administration for various disorders and nursing responsibilities related to this.	H	M	L	H	H				M		
		CLO 2: Explain pathological changes in disease conditions of various systems.			M								
		CLO 3: Describe various lab tests in assessment and monitoring of disease conditions				L	L						
		CLO 4: Explain maternal, prenatal and genetic influences on development of defects and diseases.			H								

		<b>CLO 5:</b> Demonstrate the understanding of screening methods and the role of nurses in genetic services and counselling to build up employability flair.	M	M			M			M			
NSL3209	Community Health Nursing-I	<b>CLO 1:</b> Explore the evolution of public health in India and community health nursing	H	H			L						
		<b>CLO 2:</b> Explain the concepts and determinants of health	L					M			H		
		<b>CLO 3:</b> Utilize the knowledge and skills in providing comprehensive primary health care across the life span at various settings		H	M				M				
		<b>CLO 4:</b> Assess, diagnose, manage and refer clients for various communicable and non-communicable diseases appropriately at the primary health care level								H			M
		<b>CLO 5:</b> Identify and perform the roles and responsibilities of Nurses in implementing various national health programs instigate employability skill sets.			L						M		H
NSL3210	Communication and Education Technology	<b>CLO 1:</b> Develop basic understanding of theoretical foundations and principles of teaching and learning	H						L	H			
		<b>CLO 2:</b> Identify the latest approaches to education and									M		

		learning												
		<b>CLO 3:</b> Analyze and use different teaching methods effectively that are relevant to student population and settings					M			L				
		<b>CLO 4:</b> Construct simple assessment tools/tests integrating cognitive, psychomotor and affective domains of learning that can measure knowledge and competence of students			H		H			L				
		<b>CLO 5:</b> Engage in ethical practice in educational as well as clinical settings based on values, principles and ethical standards to foster teaching skills			H				L			M		
NSP9202	Medical Surgical Nursing –I (Practical)	<b>CLO 1:</b> Apply scientific principles while giving nursing care to patients.	M											
		<b>CLO 2:</b> Develop skill in performing nursing procedures applying scientific principle.	H	M	H	H			H	M	M			
		<b>CLO 3:</b> Ensure patient safety while providing nursing procedures.	H			M								
		<b>CLO 4:</b> Assess the educational needs of the patient and their family related to medical and surgical disorders and provide appropriate health education to patients.						M			L			

		<b>CLO 5:</b> Provide pre, intra and post-operative care to patients undergoing surgery.			M					L			H	
		<b>CLO 6:</b> Integrate evidence-based information while giving nursing care to patients.	M						H					
		<b>CLO 7:</b> Demonstrate the awareness of legal and ethical issues in nursing practice.		M								L		
NSL4311	Medical Surgical Nursing –II	<b>CLO 1:</b> Explain the etiology, pathophysiology, manifestations, diagnostic studies, treatments and complications of selected common medical and surgical disorders.	L	M			H			M				
		<b>CLO 2:</b> Integrate knowledge of anatomy, physiology, pathology, nutrition and pharmacology in caring for patients experiencing various medical and surgical disorders.	H		M	M								
		<b>CLO 3:</b> Identify common diagnostic measures related to the health problems with emphasis on nursing assessment and responsibilities	H	M	M	H	M				L	M		
		<b>CLO 4:</b> Develop the understanding and skills in critical thinking and decision making to manage the complications related to various diseases and implementing the	H	M		H						M		

		rehabilitative services to enhance employability											
		<b>CLO 5:</b> Identify the drugs used in treating patients with selected medical surgical conditions.	H	M		H					M		
		<b>CLO 6:</b> Maintain safe environment for patients and the health care personnel in the hospital to build up employability skillset.		H	M		H					M	
NSL3312	Child Health Nursing	<b>CLO 1:</b> Develop understanding of the history and modern concepts of child health and child-care.		M			H				M	M	
		<b>CLO 2:</b> Describe the role of preventive paediatrics and perform preventive measures towards accidents	M		L	M							
		<b>CLO 3:</b> Demonstrate competencies in newborn assessment, planning and implementation of care to normal and high-risk newborn including neonatal resuscitation.	H		M	M						L	
		<b>CLO 4:</b> Apply the principles and strategies of Integrated management of neonatal and childhood illness.	M	M		L							
		<b>CLO 5:</b> Apply the knowledge of pathophysiology and provide nursing care to children with various disorders to foster			M	M			L				

		employability.												
NSL3313	Mental Health Nursing	<b>CLO 1:</b> Identify and describe the philosophy and principle of mental health and psychiatric nursing and classify the mental disorder.	L											
		<b>CLO 2:</b> Develop basic understanding of the principles and concepts of mental health nursing to magnify employability	M			M				M				
		<b>CLO 3:</b> Describe the etiological factors and psychopathology, clinical features, diagnostic criteria and treatment methods for mental health disorders.	H		H	M	H				M			
		<b>CLO 4:</b> Communicate therapeutically with patient and their families.								M	H			
		<b>CLO 5:</b> Identify the role of nurse in preventive psychiatry and legal aspects of mental health nursing	M	H	M					H	L	M		
		<b>CLO 1:</b> Understand the terms and concepts of nursing research					L	M				H		
		<b>CLO 2:</b> Applying the knowledge of research process through identification of research problem, literature review, designing the research					M					H		



NSL2314	Nursing Research and Statistics	study, collecting the data and analysing the data and presenting the data.												
		<b>CLO 3:</b> Identify research priority areas			H							H		
		<b>CLO 4:</b> Conduct the research projects in groups to enhance entrepreneurship abilities.			L	M	M			H		H	M	
		<b>CLO 5:</b> Gain the skills for dissemination of knowledge through communication of research findings to nursing fraternity.				H			H	M				
NSP9304	Medical Surgical Nursing-II (Practical)	<b>CLO 1:</b> Plan & implement nursing care based on priority needs and provide the health education relating to treatment and management of patients with the various medical & surgical disorders while following & maintaining legal & ethical principles	H	H	H	H	M			H	H	M	H	
		<b>CLO 2:</b> Communicate effectively with the visually impaired, deaf & mute and patients having neurological deficits.									H			
		<b>CLO 3:</b> Provide efficient hospice care to terminally ill patients.	H			M	L							
		<b>CLO 4:</b> Classify the patients on the basis of triage in disaster												

		conditions and provide care to the patients requiring emergency services.	H		L	M					H			
		<b>CLO 5:</b> Demonstrate skill in assisting/performing diagnostic and therapeutic procedures.	H			M					H			
		<b>CLO 6:</b> Demonstrate competencies/skills to patients undergoing treatment for medical surgical disorders.	H		L									
		<b>CLO 7:</b> Identify the drugs used in treating patients with selected medical surgical conditions.	H								H			
NSP9305	Child Health Nursing (Practical)	<b>CLO 1:</b> Take the detailed history of paediatric client and perform the health and developmental assessment of sick as well as healthy child.	L							M				
		<b>CLO 2:</b> Educate the family members regarding preventive measures of diseases and provide immunization to the child independently.	L	H							H			
		<b>CLO 3:</b> Compare and contrast normal and high-risk new-borns and provide nursing care accordingly.	M				H							
		<b>CLO 4:</b> Identify the deviations in normal growth and development of child.								M				

		<b>CLO 5:</b> Demonstrate skills in neonatal assessment and resuscitation effectively as and when required.	M		H	H					H		
		<b>CLO 6:</b> Provide holistic care to the paediatric client diagnosed with various childhood disorders	H	M	M	L							
NSP9306	Mental Health Nursing (Practical)	<b>CLO 1:</b> Develop skill in history taking and performing mental status examination.	L			M					M		
		<b>CLO 2:</b> Identify the etiological factors, psycho-pathology, clinical features, diagnostic criteria and treatment methods used for mental disorders.		M	M		M						
		<b>CLO 3:</b> Manage the patients with various mental disorders.	H		H	M						M	L
		<b>CLO 4:</b> Communicate therapeutically with patients and their families.							M		H		
		<b>CLO 5:</b> Provide nursing care to patients with mental health problems/disorders			H		H	M					
		<b>CLO 1:</b> Describe the anatomy and physiology of female reproductive system	L										
		<b>CLO 2:</b> Describe the physiology and management of pregnancy, labour and puerperium		M	M								
		<b>CLO 3:</b> Identify and manage normal newborn and high risk	H	H	M	H	M						

<b>NSL3415</b>	<b>Midwifery and Obstetric Nursing</b>	neonates												
		<b>CLO 4:</b> Identify and manage high risk pregnancy, abnormal labor and puerperium including appropriate referrals	H	L	M	H	M			H	H			
		<b>CLO 5:</b> Describe indication, dosage, action, side effects and nursing responsibility in administrating drugs for mothers	M	M		M	M							
		<b>CLO 6:</b> Provide youth friendly health services and care for women affected by gender based violence to develop employability skills.								M	M			
		<b>CLO 1:</b> Develop the concepts of determinants of health and other environmental factors contributing to health of individual, family and community		H			L				L			
		<b>CLO 2:</b> Develop the knowledge of national health care delivery system and participate in planning and providing the care to individuals and families in the community set up.	H		M			H		L	M		M	
		<b>CLO 3:</b> Describe epidemiological methods and principles of prevention and control of illness in the community.		M			M	M				M		
		<b>CLO 4:</b> Discuss about effective												

NSL3416	Community Health Nursing-II	management of health information in community diagnosis and intervention			M	H				M				
		<b>CLO 5:</b> Describe the management system of delivery of community health services in rural and urban areas							L	M				M
		<b>CLO 6:</b> Describe the leadership role in guiding, supervising, and monitoring the health services and the personnel at the PHCs, SCs and community level including financial management and maintenance of records & reports to evolve employability skills	M	M						H				
NSL3417	Management of Nursing	<b>CLO 1:</b> Describe the principles and techniques of management and administration in clinical and community health nursing services.										L		
		<b>CLO 2:</b> Explain and utilize the principles and methods of personnel management, planning, organization, coordinating, organization and budgeting in the hospital wards and community health centres.			M				M				H	
		<b>CLO 3:</b> Planning and managing the nursing educational services in order to develop the nursing									M		H	H

	<b>Services and Education</b>	profession.													
		<b>CLO 4:</b> Identify dynamics of organizational behaviour, styles and functions of effective leadership to inculcate entrepreneurship abilities								H	M				
		<b>CLO 5:</b> Demonstrate beginning competencies in planning, organizing and staffing at college including implementation and evaluation of curriculum to enhance the employability skills			H	M					L				
		<b>CLO 6:</b> Identify the legal issues and laws relevant to nursing practice and education.							H	H		L	M		
<b>NSP9408</b>	<b>Midwifery and Obstetrical Nursing (Practical)</b>	<b>CLO 1:</b> Perform antenatal assessment and care to pregnant women with normal and high-risk pregnancy	M	M	H	H				L	M		H		
		<b>CLO 2:</b> Carry out per- vaginal examinations and assessment of women in labor and provide her adequate nursing care	M			L									
		<b>CLO 3:</b> Conduct Normal Vaginal delivery independently and assist in conducting caesarean section	H			M	H	M						H	
		<b>CLO 4:</b> Perform assessment of postnatal mother and provide her adequate nursing care	H	M								M			

		<b>CLO 5:</b> Provide nursing care to newborn and provide the counselling to the couple regarding family planning methods	H	H					M	H	M			
		<b>CLO 6:</b> Demonstrate competencies/ skills in providing respectful and evidence based maternity care for women during antenatal, intranatal and postnatal period.	H			M				L				
<b>NSP5409</b>	<b>Community Health Nursing-II (Practical)</b>	<b>CLO 1:</b> Complete a basic assessment of a family in the community with due consideration to multiple determinants of health and document and maintain individual, family and administrative records.	L	H	L					M				
		<b>CLO 2:</b> Monitor health trends and identify health risk factors unique to specific communities		M		L	H				H			
		<b>CLO 3:</b> Design and implement health education campaigns and disease prevention activities and evaluate the effectiveness of care and health education through follow up.	H	H	H		M	H			H			H
		<b>CLO 4:</b> Act in a manner consistent with professional code of ethics, responsibilities and standards of practice.								H		M		M

		<b>CLO 5:</b> Demonstrate competencies/skills relevant to provide comprehensive primary health care/community- based care to clients with common diseases		H					M		H					
		<b>CLO 6:</b> Demonstrate skills in proper bio-medical waste management as per protocols				M			M							
NSP9410	Internship (Integrated Practice)	<b>CLO 1:</b> Provide holistic need based independent nursing care based on identified priority needs of the clients.	H		H	M	H		M		L	H	H	H		
		<b>CLO 2:</b> Apply problem solving approach to resolve the problems of client and able to take responsibility in the management of patient care to inculcate managerial skills		L		H	H					L	M	H	L	
		<b>CLO 3:</b> Involve in the need-based research to improve patient quality and contribute to professional advancement.													H	H
		<b>CLO 4:</b> Collaborate with the health team members in the need-based research for the improvement of Quality care.											H	H		
		<b>CLO 5:</b> Participate in national health program to hone clinical skills													H	H



