

KERALA UNIVERSITY OF HEALTH SCIENCES

MINIMUM STANDARD REQUIREMENTS

FOR NURSING COURSES

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Short Title

These regulations shall be called Kerala University of Health Sciences Minimum Standard Requirements for Nursing Courses and shall be binding on all nursing courses affiliated under the Kerala University of Health Sciences unless otherwise mentioned herein.

Definitions

In these regulations, unless the context otherwise requires-

- i. 'Act', 'Statutes', 'Ordinances' and 'Regulations' mean respectively the Act, Statutes, Ordinances and Regulations of the Kerala University of Health Sciences.

- ii. 'ART Centre' means Anti-Retroviral Therapy Centre.
- iii. B Sc nursing means Bachelor of Science in Nursing
- iv. 'CCU' means Coronary Care Unit.
- v. 'CHC' means Community Health Centre.
- vi. 'College' or 'Institution' means those which are conducting course(s) having affiliation with Kerala University of Health Sciences.
- vii. 'Competent Authority' means an authority approved by Govt. of India/Govt. of Kerala/ Regulatory authority/ Kerala University of Health Sciences
- viii. 'Faculty' means Faculty mentioned in the Act, Statutes, Ordinances and Regulations of Kerala University of Health Sciences.
- ix. 'FEP' means Faculty Enrolment Programme.
- x. FHC means Family Health Centre
- xi. 'GNM' means General Nursing & Midwifery.
- xii. 'ICDS' means Integrated Child Development Services.
- xiii. 'ICU' means Intensive Care Unit.
- xiv. 'ICCU' means Intensive Coronary Care Unit.
- xv. 'INC' means Indian Nursing Council.
- xvi. 'KNMC' means Kerala Nurses and Midwives Council.
- xvii. 'KUHS' or 'University' means Kerala University of Health Sciences.
- xviii. 'Law of the University' means Act, Statutes, Ordinances, Regulations and Rules of the University as the case may be.
- xix. 'LOP' means Letter of Permission.
- xx. 'MEU' means Medical Education Unit.
- xxi. 'MOU' means Memorandum of Understanding.
- xxii. M Sc Nursing means Master of Science in Nursing
- xxiii. 'MSR' means Minimum Standard Requirements required for conducting course.
- xxiv. 'NCD' means Non-Communicable Diseases.
- xxv. 'NGO' means Non-Governmental Organizations.
- xxvi. 'NICU' means Neonatal Intensive Care Unit.
- xxvii. 'OT' means Operation Theatre.
- xxviii. 'PICU' means Pediatric Intensive Care Unit.
- xxix. PB B Sc Nursing means Post Basic Bachelor of Science in Nursing

- xxx. 'PHC' means Primary Health Centre.
- xxxii. 'Registration' means registration in the Kerala University of Health Sciences as a student for undergoing courses mentioned under these Regulations.
- xxxiii. 'Regulatory Authority' means Apex Regulatory or Statutory Council or Commission or bodies constituted by Govt of India/ Govt of Kerala.
- xxxiv. 'RPWD' means Rights of Persons with Disabilities.
- xxxv. 'State' means the State of Kerala.
- xxxvi. 'STD' mean Sexually Transmitted Diseases.
- xxxvii. 'Student' or 'Candidate' means those who are registered with the University for pursuing courses.
- xxxviii. 'UHTC' means Urban Health Training Centre.
- xxxix. 'VTC' means Voluntary Testing and Counseling.

PREAMBLE:

Chapter VII Section 50 sub-clause iv &vi of KUHS Act 2010, stipulates that the University shall ensure suitable and adequate physical facilities such as building, laboratories, library, equipment required for teaching and research, hostel and other infrastructure facilities for the conduct of courses and also strength and qualifications of teaching and non-teaching staff of the affiliated colleges. These regulations intend to prescribe minimum standards and adequate facilities in the institutions.

OBJECTIVE:

The objective of these regulations is to prescribe minimum requirements in terms of infrastructure, facilities, equipment, faculty and non-teaching staff, for a college and its associated hospitals affiliated to KUHS and approved for admission to students for undergraduate and post graduate courses in nursing.

These are minimum requirements and not an exhaustive list. Additional requirements shall be provided accordingly so that academic activities shall not be compromised.

APPLICABILITY

- i. These regulations shall be applicable for all colleges / institutions affiliated to KUHS.
- ii. Any modifications and/ or deletion in these provisions added on consequent to modifications brought about by the Regulatory Council/ Government in order to maintain the academic standards of the course, shall have applicability from the date of implication of the same through University order issued after approval of Governing Council.
- iii. The Governing Council shall have the power to relax any or all of the requirements specified in these regulations in the case of existing affiliated institutions after giving sufficient reasons for the same. But such relaxations shall not, in any way, affect the proper training of students in the affiliated institutions

A. Minimum Standard Requirements for B Sc Nursing Course

1. Campus

Area of land required for establishing a Nursing college is minimum 3 acres as a single plot. The applicant for affiliation shall be an institution owned and managed by:

- i. Government of India or the State Government.
- ii. An autonomous body promoted by Central and/or State Government, by or under an enactment for the purpose of Health Science Education.
- iii. A society registered under the Societies Registration Act, 1860 or corresponding Act in the State including missionary organizations.
- iv. A public, religious or charitable Trust registered under the Trusts Act or the Wakfs Act, 1954.

It is compulsory that nursing programmes should be started in their own building. In the case of non-Government institutions, suitable land shall be owned and possessed by the applicant/ institution in its own name. Institutions, which are functioning in rented building, should ensure that they shall have their own building within two years of its establishment. Other wise, penal actions including withdrawal of affiliation shall be taken by KUHS.

Any change in the ownership/change of address of institution/Parent Hospital shall be made with the prior approval of KUHS. A Trust/Society can open only one nursing institution in one city/town. No two institutions will have same name in same city/town.

Statutory Permissions

1. The applicant shall submit the prescribed application along with the Essentiality Certificate/No Objection Certificate obtained from the State Government for starting B Sc Nursing course/ enhancement of seats.
2. No Objection Certificate/Essentiality Certificate must indicate the institution's name along with Trust /Society, name of the course, number of seats and the concerned Academic Year of starting of the course.
3. The institution shall get the permission from Apex Councils to undertake admissions and shall submit the updated certified copies of such permission(s) to the University.
4. The essentiality certificate issued by Government regarding feasibility and desirability of starting the course with admission capacity should be submitted along with the application, wherever apex council demands more specifications, that also may be included in the essentiality certificate.

Eligibility criteria:

- i. The institution shall be one fully equipped (with essential provisions for supporting course) to impart education in nursing as per Statutory Council norms.
- ii. Institution having an existing affiliation for any course from another university shall not be eligible to apply for affiliation to the KUHS.
- iii. Need to satisfy the requirements of the apex council(s) before or after applying to KUHS as the case may be.

2. Building

College of Nursing should have separate own, permanent building of 24000sq.ft. for an intake of 40-60 students. The built-up area will increase proportionately to the number of seats / courses approved. (Approximately 400 sq. ft per student)

Change of the location (district, town, city, village) shall be considered as a new proposal and shall be shifted only after getting permission from KUHS. Fresh essentiality certificate from the state Government and recognition from the KNMC is mandatory. Change of name of the institution shall be done after getting permission from KNMC, INC and KUHS.

The building shall conform to the prevailing building codes and local building laws / norms

Other facilities

- i. Fire & Safety: Adequate provision for extinguishing fire should be available with valid certification of fire & safety authority.
- ii. Differently abled friendly campus: All building shall be differently abled friendly in compliance with RPWD Act, 2016.
- iii. Green protocol: All building shall adhere to Green Protocol issued by the Government.
- iv. Water supply: Availability of clean water shall be ensured round the clock.
- v. Drinking water: Drinking water facility shall be made available in each floor of the Administrative and Academic building.
- vi. 24x7 electricity shall be ensured with adequate back up.
- vii. Solar alternative: As far as possible, the college shall explore the possibility of having solar powered energy system.
- viii. Internet facility: 24x7 unlimited internet connection with minimum 100 mbps speed shall be provided in the academic areas.
- ix. CCTV system: There shall be CCTV system installed in the campus with central monitoring facilities to ensure the security of the staff, students and infrastructure. Camera shall be available on working condition at the gate, building entrance, corridors, entrance of principal's room and staff rooms, internal roads, library, examination hall and other places as prescribed by KUHS from time to time.
- x. Telephone facility: Telephone connection shall be provided to Reception, Principal, Hospital and Hostels. All academic and administrative rooms shall have intercom facility.
- xi. Solid waste management: Adequate waste disposal measures shall be taken as per the Govt. norms. Nursing institutions and parent hospitals shall take adequate pollution control measures, bio medical and other waste disposal measures, landscaping of the campus etc. and obtain clearance certificate from the Pollution Control Board.
- xii. Sewage Treatment Plant: The college shall install Sewage Treatment Plant, for waste water management, approved by the statutory body concerned.

xiii. Rest rooms:

Shall provide adequate number of clean healthy and hygienic toilet blocks on each floor, separately for male and female students and faculty with signage boards. Facilities for hygienic disposal of used sanitary napkins must be available in female toilets. Ramps in toilets in accordance with the provisions laid down in RPWD Act-2016, if required.

xiv. Parking- Shall be available in the campus /or may be shared with other courses.

xv. Fencing -The campus shall be fenced with solid boundary wall.

xvi. Play Ground – Should be available in the campus. Playground should be spacious for outdoor sports like volley ball, football, badminton and athletics.

3. Departments

- i. Nursing foundation
- ii. Adult health nursing
- iii. Community health nursing
- iv. Midwifery/ Obstetrics and Gynecology nursing
- v. Child health nursing
- vi. Mental health nursing

4. Administrative area

Administrative section of the college shall include Principal's Room, Personal Assistant's room, reception, visitor's lounge, staff committee room, clerks' room, cash and accounts section and record room. There shall be photocopier, printer and land phone facility in each office. Green protocol should be observed. All rooms shall have internet connectivity, intercom and CCTV at the entrance.

5. Principal's room

Minimum size: 300 sq ft. with attached toilet facility. There shall be independent telephone with intercom facility connected to the hospital and hostel, computer with internet facility, visitors room and a mini conference hall.

6. Administrative Office

It should be spacious enough to accommodate the entire office staff with separate work station for each official. There shall be a separate cabin for the office head. Each office room should be adequately furnished with tables, chairs, cupboards, built-in-racks and shelves, filing cabinets and bookcases. Also, there should be provision for computers with internet facility and telephone.

7. Vice Principals room

There should be a separate office for the Vice Principal with attached toilet and provision for visitor's room. The size of the office shall be 200 sq ft with adequate seating and storage facility. Independent telephone facility for the Vice-Principal's office with intercom facility connected/linked to the hospital and hostel and a computer with internet facility.

8. Examination hall, Confidential room

Examination hall with confidential room shall be established as specified by KUHS. Minimum seating capacity : 125. The seating capacity of the examination hall to be increased according to the number of students.

9. Remote Digital Evaluation Centre (RDEC)

All institutions shall establish RDEC as specified by KUHS.

10. Auditorium/ Multipurpose Hall

Minimum 3000 Sq.ft. (approximately 40sq ft per student) and spacious enough to accommodate whole students of college, so that it can be utilized for hosting functions of the college, educational conferences/workshops. Preferably air conditioned. Suitable stage and supporting facilities like green rooms and attached toilet facilities (1: 20) separately for men, women and differently abled).

11. Library

- i. Minimum area of the library shall be 2400 sq ft. An additional 15 sq ft / student floor area is needed for an annual intake of students above 60. Facilities like reception & waiting area and property & issue counter shall be available. There shall be good lighting and ventilation and space for stocking and displaying of books and journals. The reading room shall be spacious enough to accommodate minimum half of the total students of college. Separate reading area shall be available for staff and PG students. The library shall have separate reference section and journal section and also facilities for photocopying and printing. Adequate number of computers with internet connection shall be available for librarian, staff and students. There shall be separate room/ cabin for the librarian and also a record room for storage of records and documents. Telephone with intercom facility shall be provided.
- ii. At least 10 set of latest edition books in each subject shall be available. A minimum of 500 different subject titled nursing books (all new editions) in multiple editions should be available.

- iii. The number of journals (peer reviewed and indexed) shall be 15 and subscribed on continuous basis. One- third of the journals shall be international journals. There shall be sufficient number of cupboards, book shelves and racks with glass doors for proper and safe storage of books, magazines, journals, e journals, back volumes, newspapers and other literature.
- iv. Budgetary provision should be year marked for maintenance of library including books and journals-
- v. **Details of year wise books and journals:**

	I year	II year	III year	IV year	61-100	101-150	151-200	201-250
Books	1000	1500	2500	3000	3750	4500	5250	6000
Journals	5	8	12	15	20	25	30	35
National(indexed)	3	5	8	10	14	17	20	23
International(indexed)	2	3	4	5	6	8	10	12
Minimum Annual purchase					100	150	200	250

- vi. Learning Resource Centre-(Optional): Shall have a learning resource center within / attached to the central library with adequate number of work stations and round the clock internet access.
- vii. Departmental library: Desirable
- viii. Library management system: Desirable

12. Lecture halls

There shall be sufficient number of lecture halls for the course- minimum 4 (four), each having an area of not less than 1080 sq.ft, for an annual intake upto 60 seats. Additional 15 sq. ft. per student is needed for annual intake of more than 60 students.

Proper ventilation, audio-visual teaching aids, electricity, lighting system, fans or coolers and comfortable seating arrangement preferably gallery type.

There shall be built in black/green/white boards. Desk/ dais /a big table and a chair for the teacher and racks/cupboards for keeping aids or any other equipment needed for the conduct of classes shall be available. The rooms and other facilities need expansion, proportionate to the number of sanctioned seats.

13. Laboratories

Laboratory	Area (sq.ft.)	Equipment and articles
Nursing Foundation Lab	1500	As per INC norms (Annexure I)
Medical Surgical Nursing/ skill lab/ simulation lab	1000	
Nutrition	900	
OBG Nursing	900	
Child health nursing	900	
Community health nursing	900	
*Computer Lab	1500	
Preclinical science lab (For institutions not attached to Medical college)	900	
AV aids room	600	

***Number of computers in Computer Lab1:5**

14. Head of the department's room

Separate room for the Heads of the department-200 sq ft.

15. Faculty rooms

There should be adequate number of staff rooms in proportion to the number of teaching faculty. One staff room should accommodate 2 teachers only. The size of the room should be 200 sq.ft. and adequately furnished with tables, chairs and storage facilities. There should be provision for computer with internet facility and telephone.

16. Room for conducting meetings (College council, staff meeting, curriculum committee etc) Minimum 500 sq.ft.

17. NSS room Minimum 500 sq.ft.

18. Common room for students

Separate room for boys and girls. Minimum size: 500 sq. ft. each. Shall have adequate seating arrangements, cupboards, lockers, cabinets, built in shelves and racks, hand washing and toilet facilities.

19. Central store room:

Minimum size - 750 sq.ft. with adequate storage facility -shelves, racks, cupboards for storage of records and other important documents of the college.

20. Room for supporting staff (drivers, cleaning staff etc)

Minimum area: 500 sq ft

21. Biometric Attendance

There shall be bio metric attendance system installed in the college for staff and students. The attendance shall be made available in the website of the institution in the form of daily attendance dash board

Live streaming

Live streaming of both classroom teaching and teaching hospital as per the Requirements prescribed by the Regulatory bodies, in the absence of which, as decided by KUHS from time to time.

22. College web site

The college /institute shall have its own website which shall contain the following details and to be updated in the first week of every month: -

- a. Details of Principal and faculty including their name, qualification, complete address with telephone and STD code, fax and E-mail.
- b. Details of teaching staff department wise as well as non-teaching staff.
- c. Sanctioned intake capacity of various undergraduate and postgraduate courses.
- d. List of students admitted category-wise in undergraduate and post graduate courses for the current and previous academic sessions.
- e. Research work, research grants and research publications during the last one year.
- f. Details of any awards and achievement received by the students or faculty.
- g. Results of all the examinations of last one year.
- h. Detailed status of recognition of all the courses.
- i. Details of fees for various courses and other costs
- j. Any other details as notified from time to time by the respective Central/State Council or KUHS from time to time.

23. Hostel

Shall fulfill the criteria specified for approval of hostels by INC and KUHS

24. Transportation facilities

College should have separate transportation facility under the control of the principal. Transportation facilities to be established (seats and number of buses according to student strength and requirements) for students.

25. Security

Security staff- as per the requirement. Separate room for Security staff should be available.

26. Parent Hospital

Any organization that is intending to establish Nursing College should have an established, functional own parent hospital. The beds of the parent hospital shall be in one unitary hospital i.e., in the same building/ campus. Further, the parent hospital shall be within 15 kilometers from the institution and also in the same state where the institution is situated.

Ownership:

1. To be considered as parent hospital both institution & hospital shall be under the same trust/Management /Organization
2. For a nursing institution (managed by Trust/ society/ company under section 8), a parent hospital would be a hospital either owned and controlled by the Trust/ society/ company or managed and controlled by a trustee/ member/ director of the Trust/ society/ company. In case the owner of the hospital is a trustee/ member/ director of the Trust/ society/ company, then the hospital would continue to function as a 'Parent hospital' till the life of the nursing institution.
3. In case the owner of the Hospital is a member of the trust then in that event an under taking has to be taken from the member of the Trust that the hospital would continue to function as a Parent Hospital till the life of the Nursing Institution.
4. The undertaking would also be to the effect that the trustee/member/ director of the Trust/ Society/ company would not allow the hospital to be treated as Parent / affiliated hospital to any other Nursing institution and will be for minimum 30 years (i.e., signed by all trustees/ members/ directors of Trust/ Society/ Company).
5. It is to be noted that once a particular hospital is shown as parent hospital and permission given to the Nursing Institution to conduct Nursing Course, then in that event the permission/suitability granted would last as long as the said hospital is attached as a parent hospital. The required proforma of the under taking to be submitted from the member of the Trust
6. In case the Trustee/ Member/ Director of the trust/ society/ company withdraws the undertaking given, in that case, even the permission/ suitability letter issued would be deemed to have lapsed/ stand withdrawn with immediate effect.
7. Parent hospital should not be changed without the prior consent of the university.
8. Change of trust/society/company, change of address and change of name of the institution should not be done without prior permission from KUHS.

Facilities in the parent hospital (for an annual intake of 40-60 students) -

The parent hospital should be an established 200 bedded hospital with minimum one year of functioning. The hospital shall be suitably spacious to accommodate all facilities required for the course.

Distribution of minimum beds in different specialties

Medical	50
Surgical	45
OBG	40
Pediatrics	30
Ortho	15
Psychiatry	20

In addition to the basic specialty beds, other specialties /facilities for clinical experience required includes Eye/ENT, Burns &Plastic, Neonatology with nursery, Communicable diseases, Cardiology, Oncology, Nephrology, Neurology/ Neuro-Surgery / ICU/ICCU/ dialysis unit/ dental/ major and minor operation theatres, Dermatology, emergency/casualty, Geriatric Medicine / any other specialty as per syllabus.

Bed occupancy of parent hospital should ensure 1:3 student patient ratio. It shall have 20% beds in general ward. General ward should be available for clinical posting of students of nursing college attached to the hospital.

While deciding the seats and giving permission to the institution, they shall have the required clinical, teaching and physical facilities as prescribed by the Apex Council and KUHS.

Patient occupancy

- i. The institution shall maintain 1:3 student patient ratio, proportionate to the sanctioned intake of students throughout the course period, for all nursing programmes.
- ii. The number of beds in the parent hospital shall be increased to maintain the student patient ratio of 1: 3 in the consecutive years.

Hospital staff

The hospital shall possess required number of hospital staff. The institution should have qualified and experienced nursing staff as per the apex council norms (Staff

Inspection Unit (SIU) norms/ INC norms) / KUHS and Government norms from time to time.

Maintenance of Records

The institution shall maintain a, Central Registration System of records of out-patients and in-patients department.

All hospitals shall have a Medical Records Library.

The following shall be maintained in the hospital: (Hard Copy needed for verification) *

- a. Outpatient & in patient Registers
- b. Laboratory and radiological investigation registers
- c. Department wise procedure / Operation Theatre register
- d. Medicine dispensing register
- e. Duty roster of hospital staff
- f. Birth and death registers
- g. Any other documents other than above, specified by KUHS from time to time
- h. Shall maintain a computerized Central Registration System of records of patients in Out-Patient Department and In-Patient Department as well as Department wise records of the same. (Soft Copy and Hard Copy)
- i. Nurses record-Student Nurses record

*(If the registers are fully computerized or in the digital format, monthly printouts of the reports shall be taken and filed.)

Accommodation facilities

Accommodation facilities for interns / students undergoing in-house clinical training to be made available.

Teaching and demonstration rooms

Teaching and demonstration rooms- shall be available

Security room

Security room shall be provided in the main entrance with telephone connectivity.

Visitors' register shall be maintained physically or electronically.

27. Affiliated hospitals

If the facilities are not adequate in the parent Hospital, Affiliations may be obtained for the following specialties.

1. Community health nursing
2. Mental Health Nursing
3. Specialties like Cardiology, Cardio-Thoracic Surgery, Neurology, neuro surgery, Neonatology, Oncology, Urology, Nephrology, Plastic surgery, and Pediatric Medicine and Surgery and Obstetrics & Gynecology.
 - a. A college can be affiliated to maximum three hospitals and a hospital can give affiliation to a maximum of three colleges for specialty postings, establishing 1:3 student patient ratio norms
 - b. The affiliated hospital for a clinical specialty shall be minimum 50 bedded and occupancy shall be minimum 75%.
 - c. The physical facilities, staffing and equipment of the affiliated hospital shall be of the same standard as required in the parent hospital.
 - d. A legally valid Memorandum of Understanding (MoU) to be signed by the institution and hospital management to establish affiliation in the format prescribed by KUHS and the same shall be renewed annually.
 - e. The distance between the institution and affiliated hospital shall be less than 30 kilometers.
 - f. The institution from which affiliation sought for Psychiatric Nursing can be in the radius of 50 kilometers from the institution. Affiliated psychiatric hospital should have minimum 50 beds. Affiliation can be sought on rotational basis to establish student patient ratio of 1:3.

28. Faculty required:

Sl. No.	Designation	B.Sc. (Nursing) 40-60	B.Sc. (Nursing) 61-100
1	Principal	1	1
2	Vice-Principal	1	1
3	Professor	1	1-2
4	Associate Professor	2	2-4
5	Assistant Professor	3	3-8
6	Tutor	8-16	16-24
Total		16-24	24-40

(For example for 40 students intake minimum number of teachers required is 16 including Principal, i.e., 1 – Principal, 1 – Vice Principal, 1 – Professor, 2 – Associate Professor, 3 – Assistant Professor, and 8 tutors)

To start the program, minimum 3 M.Sc. (Nursing) shall be appointed.

	First year	Second year	Third Year	Fourth year
40 Students	3 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics) + 2 Tutors	5 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics, 1 - Community Health Nursing, 1 - Psychiatric) + 3 Tutors	7 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics, 1 - Community Health Nursing, 1 - Psychiatric, 2 - OBG) + 5 Tutors	8 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics, 1 - Community Health Nursing, 1 - Psychiatric, 3 - OBG) + 8 Tutors
60 Students	3 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics) + 3 Tutors	5 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics, 1 - Community Health Nursing, 1 - Psychiatric) + 7 Tutors	7 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics, 1 - Community Health Nursing, 1 - Psychiatric, 2 - OBG) + 11 Tutors	8 M.Sc. (Nursing) (2 - Med Surg., 1 - Pediatrics, 1 - Community Health Nursing, 1 - Psychiatric, 3 - OBG) + 16 Tutors
100 Students	5 M.Sc. (Nursing) (3 - Med Surg., 2 - Pediatrics) + 5 Tutors	8 M.Sc. (Nursing) (4 - Med Surg., 2 - Pediatrics, 1 - Community Health Nursing, 1 - Psychiatric) + 12 Tutors	12 M.Sc. (Nursing) (4 - Med Surg., 2 - Pediatrics, 2 - Community Health Nursing, 2 - Psychiatric, 2 - OBG) + 18 Tutors	16 M.Sc. (Nursing) (4 - Med Surg., 2 - Pediatrics, 2 - Community Health Nursing, 2 - Psychiatric, 6 - OBG) + 24 Tutors

29. Faculty- Qualification & Experience

Sl. No.	Post, Qualification & Experience
1	Principal cum Professor - Essential Qualification: M.Sc. (Nursing) Experience: M.Sc. (Nursing) having total 15 years' experience with M.Sc. (Nursing) out of which 10 years after M.Sc. (Nursing) in collegiate program. Ph.D. (Nursing) is desirable
2	Vice-Principal cum Professor - Essential Qualification: M.Sc. (Nursing) Experience: M.Sc. (Nursing) Total 12 years' experience with M.Sc. (Nursing) out of which 10 years teaching experience after M.Sc. (Nursing) Ph.D. (Nursing) is desirable
3	Professor - Essential Qualification: M.Sc. (Nursing) Experience: M.Sc. (Nursing) Total 12 years' experience with M.Sc. (Nursing) out of which 10 years teaching experience after M.Sc. (Nursing). Ph.D. (Nursing) is desirable
4	Associate Professor - Essential Qualification: M.Sc. (Nursing) Experience: Total 8 years' experience with M.Sc. (Nursing) including 5 years teaching experience Ph.D. (Nursing) desirable
5	Assistant Professor - Essential Qualification: M.Sc. (Nursing) Experience: M.Sc. (Nursing) with total 3 years teaching experience/Appointed by Kerala Public service commission. Ph.D. (Nursing) desirable
6	Tutor - M.Sc. (Nursing) preferable Experience: B.Sc. (Nursing)/P.B.B.Sc. (Nursing) with 1 year experience.

- To start a Nursing College, faculty should be appointed according to the seats requested.
- Teacher Student ratio of 1:10 should be maintained based on the number of seats sanctioned by KUHS throughout the course period. Irrespective of number of students admitted per year, all faculty positions i.e., Professor to Tutor must be filled, as per the sanctioned strength for granting affiliation.
- If the institution is having both GNM and B.Sc. Nursing programme Teacher-student ratio of 1:10 to be maintained for the seats sanctioned for both programme.
- They shall be registered under the State Nursing Council Registration Act.
- No part time Nursing faculty /external faculty will be counted for calculating total number of faculty required for a college.
- All teachers of nursing other than Principal should spend at least 4 hours in the clinical area for clinical teaching and/or supervision of students every day.
- Relieving/ transfer/ resignation/ joining of faculty including principal should be informed to KUHS within 15 days.
- The appointment of new faculty and principal should be intimated to KUHS for approval within 15 days.
- The registration in the Faculty Enrollment Programme of KUHS is mandatory for approval as faculty.
- Age of retirement from service- Principals and teachers above the age of 70 shall not be considered as a faculty of KUHS.
- The assistant professor appointed by Kerala public service commission to government nursing colleges will be eligible for examiner ship only after completing three years of collegiate teaching experience after post graduation.

30. Faculty for Non- nursing courses

Sl. No.	Course/ subjects	Qualification and experience
1	English	Post Graduate qualification with teaching experience in the respective subjects Registration in the faculty enrolment programme of university is needed.
2	Anatomy	
3	Physiology	
4	Sociology	
5	Psychology	
6	Biochemistry	
7	Nutrition & Dietetics	
8	Health / Nursing informatics and Technology	
9	Microbiology	
10	Pharmacology	
11	Pathology & Genetics	
12	Forensic nursing	
13	Other clinical disciplines (Medicine, Surgery, Paediatric Medicine & Surgery, Psychiatry, OBG)	
14	Physical Education	
15	Elective courses	

31. Administrative staff

Designation	Minimum requirement
Administrative officer	1
Office superintendent	1
CA to Principal	1
Accountant / cashier	1
Upper division clerk	2
Lower division clerk	2
Store keeper	1
Class room attendants	2
Cleaning / Sanitary staff	As per physical space
Security staff	As per requirements
Peon/ office attendant	4
Librarian	2
Library attendant	1
Driver	One per vehicle
Hostel staff-	As per KUHS norms

32. Technical staff

Electrician, Plumber, Mechanic- No separate technical staff if the institution is utilizing parent hospital facilities.

33. Councils and Committees

The college/institution shall establish and maintain the following mandatory requirements after the first batch is admitted and the details shall be made available in the college website.

- a. College council
- b. Anti ragging cell & anti ragging squad
- c. Curriculum committee
- d. Institutional academic committee
- e. Faculty development unit
- f. Institutional research committee
- g. Institutional ethics committee
- h. Pharmacovigilance committee
- i. Grievance redressal committee for students
- j. Internal complaints committee
- k. Students support and guidance cell
- l. Parent teacher association
- m. College union

34. Physical education unit

The college/institution shall establish a Physical Education Unit as per the direction from KUHS from time to time.

B. Minimum standard requirements for Post Basic BSc Nursing (PB BSc N) Programme

1. General Requirements

An institution conducting Post Basic B Sc Nursing programme shall satisfy the minimum requirement for B Sc Nursing Programme. They shall also fulfill the following additional requirements

- a. An institution which is conducting B Sc Nursing Programme can only apply for starting PB BSc Nursing Programme
- b. The size of built-up area, class rooms, examination hall, library and other facilities

should be increased according to the number of PB BSc Nursing seats requested.

- c. There shall be sufficient number of lecture halls for the PB BSc nursing course - minimum 2 (Two), each having the area of not less than 1080Sq.Ft, for intake upto sixty seats

2. Parent hospital

Bed occupancy of parent hospital should ensure 1:3 student patient ratio, proportionate to the sanctioned intake of students for all the nursing programmes throughout the course period.

3. Faculty requirement

Designation	Minimum requirement	
	40-60 sanctioned seats B Sc Nursing	20-40 sanctioned seats- PBBS Sc Nursing
Principal	1	
Vice Principal	1	
Professor	1	
Associate Professor	2	
Assistant Professor	3	2
Tutor	9-16	2-6

If the institution is having both GNM and BSc Nursing Programme, Teacher-student ratio of 1:10 to be maintained for the seats sanctioned for both programmes.

C. Minimum standard requirements for M Sc Nursing Programme

Courses which come under these regulations include MSc Nursing in the following specialties-

- a. M Sc Nursing- Medical Surgical Nursing with the following sub-specialties:
 - i. Cardiovascular & Thoracic Nursing
 - ii. Critical Care Nursing
 - iii. Oncology Nursing
 - iv. Neuro sciences Nursing
 - v. Nephro-Urology Nursing
 - vi. Orthopedic Nursing
 - vii. Gastroenterology Nursing
- b. Obstetrical & Gynecological Nursing

- c. Child Health (Paediatric) Nursing
- d. Mental Health (Psychiatric) Nursing
- e. Community health Nursing

1. General Requirements

An institution conducting M Sc Nursing programme shall satisfy the minimum requirement for B Sc Nursing Programme. They shall also fulfill the following additional requirements.

- a. An institution which is conducting B Sc Nursing Programme wherein one batch has passed out can only apply for starting M.Sc. Nursing Programme. Super speciality hospitals are permitted to start M.Sc. Nursing programme without B.Sc. nursing programme as per the guideline of Indian nursing council. Separate MSR is available regarding this.
- b. The size of built-up area, class rooms, examination hall, Library and other facilities should be increased according to the number of M Sc Nursing seats requested.
- c. There shall be sufficient number of lecture halls for the M Sc Nursing course - minimum 2 (Two) common class rooms, each having the area of not less than 500 Sq.ft and two specialty class rooms of 200 sq ft each, for each specialty/ sub specialty.
- d. There shall be separate area for the PG students in the library.

2. Parent hospital

Bed occupancy of parent hospital should ensure 1:3 student patient ratio, proportionate to the sanctioned intake of students for all the nursing programmes throughout the course period.

Exclusive requirement:

Medical Surgical Nursing-

Clinical specialty Department with minimum of 50 beds in the concerned subspecialty Including ICUs and CCUs.

Obstetrical and Gynecological Nursing-

Maternal and Child health department with minimum 50 beds having ante natal, post-natal and gynecological conditions, labor room, NICU, OT, maternal intensive care unit, laparoscopy unit.

Special clinics: Prenatal clinic, Infertility clinic, Family welfare clinic.

Child Health (Paediatric) Nursing –

Child health department with minimum 50 beds for medical and surgical conditions, PICU, NICU, OT and Immunization clinic.

Desirable- Super specialty clinics and oncology department.

Psychiatric (Mental Health) Nursing–

Psychiatric hospital / Department with minimum of 50 beds having acute and chronic adult psychiatric beds, Child psychiatric beds and deaddiction facilities with advanced diagnostic, therapeutic and state of the art clinical facilities.

Special clinics needed: Deaddiction clinic, suicide prevention clinic and child guidance clinic

Community Health Nursing-

- i. Shall have an affiliated or adopted community in rural and urban areas.
- ii. Shall have an affiliated PHC, CHC/FHC, Subsidiary Health Centre/, and Urban Health Centre in government sector for student practice
- iii. Facilities should be available for provision of school health services, community geriatric services, palliative and rehabilitative services, occupational health services, community mental health services, Anganwadi /ICDS based health services and provisions for participation in activities of NGO / Voluntary Health Agencies are needed.
- iv. Special clinics needed: Preventive clinics, Immunization Clinics, Under five Clinics, NCD clinics, Infectious Disease Control Units, Family Planning Clinics, Antenatal Clinics, ART centers and VCT centers, / STD clinics.
- v. Family Folders: Computerized or Manual Family Health Records of all the families in the affiliated / Adopted area of service.
- vi. Special arrangements for serving the marginalized population such as tribal areas/ coastal areas / migrant settlements etc. by the institution.

3. Faculty requirement

Designation	Minimum required	
	40-60 sanctioned seats – B Sc Nursing	10-25 sanctioned seats - M Sc Nursing
Principal	1	
Vice Principal	1	
Professor	1	1*
Associate Professor	2	1*
Assistant Professor	3	3*
Tutor	9-16	

*Specialty wise faculty shall be available and shall maintain 1:10 teacher student ratio

D. Saving clause:

1. If this regulation and/ or respective course regulations are silent on any aspect of the Minimum Standard Requirements to run the course specified in this regulation, the regulations of respective regulatory authority shall be applicable mutatis mutandis.
2. Notwithstanding anything contained in these regulations, the university shall have the right to modify the regulations and shall have the right to implement them through a university order until such amendments are gazetted.

E. Annexure- Laboratory Equipment and Articles

I. NURSING FOUNDATION AND MEDICAL SURGICAL NURSING LABORATORY

A. Manikins/ Simulators and Equipment

Sl. No	Item	Quantity
1	Manikins/simulators and equipment	
	Adult male	2
	Adult female	2
	CPR	1
	IV Arm(trainer)	2
	IM Injection trainer	2
	ID injection trainer	2
	Catheterization trainer (male/female)	1 each
	Ostomy care simulator (colostomy/ gastrostomy)	1
	Airway suction trainer	2
	Chest tube manikin	1
	Lung examination trainer/ auscultation trainer	1
	Nasogastric tube feeding trainer/ simulator	1
2	Furniture	
	Patient cots-adult	10
	Bedside locker	10
	Stool/ chair	10
3	Trays of different sizes	
	24"x16"	10
	14"x10"	10
	11"x9"	6
	8"x5"	6
4	Trays with cover	
	24"x16"	2
	14"x10"	6
	11"x9"	6
	8"x5"	10
5	Bowls(stainless steel)	
	10" diameter	2
	6" diameter	10
	2-4" diameter	20
6	Enema can (enamel/plastic/stainless steel)	
	½ L and 1 L capacity	2 each
7	Kidney trays of assorted sizes (plastic/stainless steel)	
	Large	12
	Medium	18
	Small	12
8	Measuring jugs	
	1000 ml	4
	500 ml	4
	250 ml	4

Sl. No	Item	Quantity
9	Basins	
	Big size	12
	Medium size	12
10	Catheter tray with cover (stainless steel)	4
11	Knife tray with cover (stainless steel)	6
12	Feeding cups	6
13	Douche can	6
14	Sputum mugs	6
15	Bed pans	6
16	Urinals-male	6
17	Funnel	
	4" diameter	4
	2" diameter	4
18	Jars with covers	
	12"x4"	12
	6"x4"	12
19	Dressing drums	
	8"x4"	2
	12"x9"	4
20	Tub for sitz bath	2
21	Big vessel with lid (Indolium for heating water)	
	10 L capacity	1
22	Kettle- 1 L and 2 L	1 each
23	Colour coded waste bins with lid	1 set
24	Trolleys with upper and lower shelves	6
25	Mugs	4
26	Sauce pan with lid- 1 L and 2 L	2 each
27	Bottle brush	2
28	Gallipots	2
29	Pint measure	2
30	Disposable kits & essential consumables as required for nursing procedures	

Instruments

Sl. No	Item	Quantity
1	Cheatle forceps	6
2	Sponge holding forceps	6
3	Artery clamps	
	Straight 6"	12
	Curved 6"	12
4	Dissecting forceps	
	Toothed	6
	Non-toothed	6
5	Mosquito forceps	4

Sl. No	Item	Quantity
6	Kocher's forceps	4
7	Tissue forceps	4
8	Sinus forceps	2
9	Biopsy forceps	2
10	Scissors	
	Surgical 8"	6
	Bandage	6
	Mayo's cutting	6
11	Liver biopsy needle	2
12	Alice forceps	6
13	Probe	2
14	Groove director with probe	2
15	Mouth gag	6
16	Tongue depressor	6
17	Tongue holding forceps	6
18	Nasal speculum	6
19	Aural speculum	2
20	Retractors	
	Single hook	2
	Double hook	2
21	Bladder sound	2
22	Male urethral dilator	1 set
23	Packing forceps	
	Nasal	2
	Oral	2
24	Ear irrigation syringe	2
25	Ear speculum	2
26	Shaving set	2
27	Safety razor with blades	2
28	Bard Parker knife handle	1 set
29	Surgical blades of different sizes	2 each
30	Airway-adult	6
31	Laryngoscope with 3 blades-small and big	2 each
32	Proctoscope	1
33	Infusion set	6
34	otoscope	1
35	Ophthalmoscope	1
36	Tracheostomy set with various sizes of tracheal tubes	1 set
37	Hard mirror	1
38	Tuning fork	6

Sl. No	Item	Quantity
39	Oxygen cylinder with stand	1
40	Oxygen mask	1
41	Nasal prongs, venturi mask	1each
42	Infra red lamp	1
43	Digital thermometer	6
44	Glucometer kit	1
45	Nebulizer machine with nebulizer mask	1
46	Sphygmomanometer	
	Regular	6
	Electronic	6
47	Pulse meter	1
48	Catheters – urinary, Foly’s. nasal, plain and rectal	6 each

B. Glass wares

S. No	Item	Quantity
1	Eye bath cup	2
2	Pipettes and droppers	2 sets
3	Glass connections	
	Different types-eg. Y, T, L	2 each
4	Wolfs bottle	2
5	Conical flasks	2
6	Ounce glass	6
7	Dram glass/ vial	2
8	Thermometers	
	Oral	6
	Rectal	2
	Bath/ lotion	4
	Room	2
9	urinometer	6
10	lactometer	6
11	haemoglobinometer	6
12	Specimen glasses	6
13	Test tubes	2 dozen
14	Glass slides with cover	2 boxes
15	Bottles -500 ml capacity for lotions and mixtures	12
16	Atomizer	2

C. Syringes and Needles

S. No	Item	Quantity
1	Syringes	
	2 ml	12
	5ml	12
	10 ml	12
	20ml	12
2	Tuberculin syringe	6
3	Insulin syringe with needle	6
4	Needles-all sizes	1 dozen each
5	Lumbar puncture needle	2
6	Trocar and cannula for abdominal paracentesis	2
7	IV Cannulas of different types and sizes-adult	12
8	Biopsy needle	
	Adult	2
9	Sternal puncture needle	2

D. Suture materials

Sl. No	Item	Quantity
1	Needle holder	
	6"	6
	7"	4
	8"	4
2	Needle -cutting and round body	6 each
3	Suture cutting scissors	
	Straight	6
	Curved	6
4	Suture thread	
	Silk	2 packets
	Cotton	2 packets
5	Catgut	
	Silk	6 tubes
	Cotton	6 tubes
6	Catgut tube breaker	2
7	Suture clip	1 packet
8	Suture clip applier and remover	2

E. Rubber Goods

Sl. No	Item	Quantity
1	Mackintosh roll	
	Full bed length	10
	Draw mackintosh	5
	Extra for treatment and dressing	12
2	Hot water bag	5
3	Ice caps	6
4	Gloves of different sizes	5
5	Finger stalls of different sizes	2 sets each
6	Air rings	6
7	Gastric lavage tube	2
8	Ryle's tube	6
9	Flatus tube	6
10	Blakemore Sengstaken tube	6
11	Rubber tubes with different diameter and sizes	6 each
12	Rectal syringe with nozzle	2 each
13	Ring pessaries of all sizes	2 each
14	Douche nozzle -different sizes	2 each

F. Linen

Sl. No	Item	Quantity
1	Mattress	
	Adult	10
2	Mattress cover	
	adult	10
3	Bed sheets	304
4	Draw sheets	20
5	Pillows	
	Large	12
	Small	6
6	Pillow covers	
	Large	24
	Small	12
7	Sand bags with covers	6
8	Blankets	10
9	Bed spreads	10

Sl. No	Item	Quantity
10	Towels	
	Bath	12
	Hand	12
	Surgical	12
	Packing	12
	Towel clips	6
11	Sponge cloth	12
12	Hot water bag cover	12
13	Ice cap cover	12
14	Air ring/ cushion covers	6
15	Gown and mask	12 each
16	Patient's cloths	
	Male	12 sets
	Female	12 sets
17	Dirty linen bag/ box	1
18	Leggings	6 pairs
19	Perineal sheets	5
20	Triangular bandages	12
21	Many-tailed bandages	12
22	Eye shields	5
23	Dusters	24
24	Slings	6
25	T Binder	2
26	Screen/ bedside curtains	2 sets each

G. Miscellaneous items

Sl. No	Item	Quantity
1	Mortar and pestle	6
2	Nelsons inhaler	6
3	Wooden blocks	2 pairs
4	Spirit lamp	6
5	Test tube stand	6
6	Test tube holder	12
7	Sterilizer-small	2
8	Portable autoclave	1
9	Torch	6

Sl. No	Item	Quantity
10	Nail brush	6
11	Adult weighing scale	2
12	Back rest	4
13	Splints of different sizes	12
14	Adhesive tapes	2
15	IV stand	4
16	Tape measure	6
17	Bucket with cover	6
18	Comb	6
19	Microscopes	2
20	Stethoscope	6
21	Soap and soap dish	12
22	Dust bins	6
23	Over bed table	2
24	Three-way adapter	3
25	Dettol	1 bottle
26	Phenyle	1 bottle
27	Methylated spirit	1 bottle
28	Benedict's solution	1 bottle
29	Tr. Iodine	1 bottle
30	Tr. Benzoin	1 bottle
31	Nitric acid	1 bottle
32	Acetic acid	1 bottle
33	Sulphur powder	500 gm
34	Ammonium sulphate crystals	500 gm
35	Vaseline	1 jar
36	Glycerin	1 bottle
37	Liquid paraffin	1 bottle
38	Potassium permanganate crystals	200 gm
39	Boric solution	1 bottle
40	Hydrogen peroxide	1 bottle
41	Sodium bicarbonate powder	200 gm
42	Litmus paper strips-Red& Blue	2

Advanced Nursing Laboratory

Sl. No	Item	Quantity
1	Electronic ICU cot with appropriate attachments	1
2	Advanced IV Arm/ Arterial puncture arm	1
3	Central venous cannulation trainer	1
4	ECG machine/ ECG simulator	1
5	Airway management simulator	1
6	Defibrillator CPR Trainer	1
7	Hemodynamic monitoring simulation kit	2
8	Tray sets/ kits to perform advanced nursing procedures	As required
9	Drugs, fluids, IV sets, emergency medication	As required
10	High Fidelity simulator(optional)-If other simulators are part of this, separate trainers/ simulators are not required	1

2. COMMUNITY HEALTH NURSING & NUTRITION LABORATORY

A. Community Health Nursing

Sl. No	Item	Quantity
1	Electric/ induction stove	1
2	Eligible couple and child register	1
3	Diary	2
4	Tables (one for 4 students)	12
5	Chairs	50
6	Sterilizer	1
7	Infant weighing scale	4
8	Salter scale	1
9	Spring balance	4
10	Weighing machine	4
11	Sphygmomanometers (regular 7 electronic)	5 each
12	Stethoscopes	5
13	Dari/ mats for health education purpose	4

Sl. No	Item	Quantity
14	AV Aids on different topics in the form of posters	
	Flip charts	
	Flash cards	
	Any other teaching materials	
15	Community bag	
	The bag should have separate compartments for clean articles, hand washing kit and urine testing kit. It should contain the following articles:	
15.1	Assessment articles:	
	Thermometer	1
	Tape measure	1
	Stethoscope	1
	Fetoscope	1
15.2	Hand washing articles :	
	Soap dish with soap	1
	Hand towel	1
	Nail brush	1
	Water proof bag	1
15.3	Urine testing kit :	
	Test tubes	2
	Test tube holder	1
	Spirit lamp	1
	Dropper	1
	Benedict's solution in a bottle	1
	Glass syringe	1
16	Dressing kit	
	Bag of sterilized dressing	1
	Antiseptic in a bottle	1
	Artery forceps	1
	Dissecting forceps – non toothed	1
	Dissecting forceps – toothed	1
	Small bowls	2
	Small kidney tray	1
	Suture cutting scissors/ dressing scissors	1
17	Medicines:	
	Labelled medicines for essential treatment of minor ailments	

B. Nutrition

Sl. No	Item	Quantity
1	Gas stove with cylinders/ pipeline tubing	6
2	Gas lighters	6
3	Pressure cookers of different sizes- 1&2 kg	6 each
4	Steel cooking vessels- big, medium and small	12
5	Cutlery set	1
6	Ladles (Wooden spoons/ spatulas)	12
7	Juice squeezer	1
8	Water reservoir	1
9	Sauce pan with handle- medium and small size	6
10	Spoons	
	Serving spoons	6
	Tea spoons	24
	Table spoons	12
	Dessert spoons	12
	Soup spoons	12
	Rice serving spoons	4
11	Bowls (wati)	25
12	Soup bowls	36
13	Forks	36
14	Sieve	2
15	Tongs	6
16	Knives	6
17	Peeler	6
18	Vegetable cutters	6
19	Vegetable cutting plate	6
20	Water filter/ Acqua guard	1
21	Flask	2
22	Frying pans	6
23	Tava	6
24	Vessel holders (Chimta)	6
25	Mixer with accessories	1
26	Glass for drinking water (steel)	24
27	Glass for drinking water (glass)	24
28	Kitchen Weighing scale	1
29	Chapati making plate and rolling pin	6
30	Measuring scoops	2 sets
31	Napkins	24
32	Glass bowls	24
33	Tea strainer	6
34	Egg beater	6
35	Toaster	2
36	Microwave with appropriate cooking vessels	1
37	Dinner set (12 persons)	2
38	Tea set (12 persons)	2

3. PRECLINICAL SCIENCES LABORATORY

A. Realia, Specimens and Equipment

Sl. No	Item	Quantity
1	Adult human articulated skeleton with hanging facility in a glass cupboard with locking facility	2
2	Full set of dis articulated adult human skeleton	2
3	Open racks for displaying the specimen	10
4	Anatomy dissection kit	10
5	Microscope- monocular, binocular	10
6	Prepared educational slides (histopathology)	5 sets

B. Models

Sl. No	Item	Quantity
1	Full size human body showing all muscles and arteries	2
2	Human Torso	
	Male	2
	Female	2
3	Skin cross section	2
4	Heart and large blood vessels	2
5	Heart with detachable parts on a stand	2
6	Eye with detachable parts on a stand	2
7	Ear with different sections	2
8	Human brain with spinal cord	2
9	Lungs and trachea	2
10	Larynx	2
11	Digestive system	
	Stomach	2
	Small intestine	2
	Large intestine	2
	Hepatobiliary system	2
12	Female reproductive system	
	Uterus on stand	1
	Ovaries	
	Macroscopic structure	2
	Microscopic structure	2
13	Male reproductive system	2
14	Urinary system (Kidney)	
	Macroscopic structure	2
	Microscopic structure	2
15	Joints and ligaments	
	Wrist & Ankle	2(I each)
	Elbow & Knee	2(I each)
	Shoulder & Hip	2(I each)
16	Teeth	2

C. Working Models

S. No	Item	Quantity
1	Heart	1
2	Lungs	1
3	Kidney	1
4	Joints	1

D. Charts

Sl. No	Item	Quantity
1	Skeletal system	2
2	Muscular system showing different muscles of the body	2
3	Joints and ligaments	2
4	Nervous system	
	Brain	2
	Spinal cord	2
5	Cardiovascular system	2
6	Respiratory system	2
7	Lungs	2
8	Trachea	2
9	Larynx	2
10	Digestive system	2
11	Oral cavity	2
12	Teeth	2
13	Stomach, Pancreas and Spleen	2
14	Small intestine	2
15	Large intestine	2
16	Liver and Gall bladder	2
17	Kidney- Macroscopic structure	2
18	Skin	2
19	Eye	2
20	Ear	2
21	Female reproductive system	2
22	Menstrual cycle	2
23	Male reproductive system	2
24	Endocrine glands	2
25	Charts on First Aid	
	First aid on burns	1
	Cardiac Pulmonary Resuscitation- Adult	1
	First aid charts for emergencies such as fracture, drowning, wounds, poisoning, bites	1 each
	Bandaging- different types	1 each

4. COMPUTER LABORATORY

Sl. No	Item	Quantity
1	Computers with latest configuration and should be on Local Area network	15
2	Internet facility for all computers	
3	Laser printer	5
4	Power back up	
5	Software	
	Statistical package	
	MS Office	
	Windows operating system	
	Hospital Management System	
	Nursing Management Information System	
	And any health sciences literature data base that include nursing such as CINAHL plus, MEDLINE, PUBMED, OVID, etc.	

5. MIDWIFERY & CHILD HEALTH NURSING LABORATORY

1. Midwifery

A. Models and Manikins (Mannequins) /Simulators

Sl. No	Item	Quantity
1	Stages of development of embryo model	1 set each
2	Abdominal (Antenatal) palpation manikin with Leopold manoeuvre	2
3	Human fetus replicas	2
4	Child birth (advanced birthing) simulator with episiotomy repair attachments	4
5	Cervical dilatation model with attachments	2
6	Female pelvis model	5
7	Fetal skull model	5
8	Placenta	2
9	Breast examination model	2
10	Essential newborn care & new born resuscitation manikin & kit (Neo Natalie)	4
11	Baby doll/ New born baby	2
12	Adult IV Arm training kit	2
13	IM injection training manikin	2
14	Female catheterization manikin	2
15	Manikin for simulation and management of PPH (Mama Natalie)	4

Sl. No	Item	Quantity
16	Adult CPR manikin	1
17	Zoe model with postpartum uterus for IUCD insertion (Gynecological simulator)	1
18	Ante verted and retro verted uterus model	1
19	Hand held uterus model	2
20	Penile model	2

B. Charts

Sl. No	Item	Quantity
1	Pregnancy chart (Breast changes & Uterus changes)	1
2	Fetal development chart	1
3	EDD Calculator chart/ wheel	20
4	Stages of labor	
	First stage	1
	Second stage	1
	Third stage	1
5	Birth chart	1
6	Enlarged Partograph (as in SBA guidelines) ²	
7	Abnormal presentations (breech /shoulder presentations)	1 each
8	Face presentation	1
9	Brow presentation	1
10	Twin pregnancy	1
11	Placenta praevia (different degrees)	1
12	Abruption placenta	1
13	Caput succedaneum, Cephalhematoma	1
14	Congenital malformations of new born	
	Cleft lip- palate	1
	Spina bifida	1
	Hydrocephalus	1
	Anencephalus	1
15	Government of India SBA Charts	1 set
16	Anatomy of female reproductive system	1
17	Anatomy of male reproductive system	1
18	Family planning flip book	4
19	BP/CR flip book for counseling	4
20	MEC wheel	20

C. Equipment/ instruments

Sl. No	Item	Quantity
1	BP Apparatus	4
2	Stethoscope	4
3	Fetoscope	4
4	Thermometer (digital)	10
5	Measuring tape	4
6	Dictaphone	1
7	Watch with second hand	2
8	Adult weighing scale	2
9	Sahli's haemoglobinometer	4
10	Glucometer (Plasma)	2
11	Stirrer(plastic/wooden)	2
12	Functional focus lamp	2
13	Spare bulb for focus lamp	4
14	Stop watch	2
15	Kidney tray	20
16	Hub cutter	4
17	Spirit lamp	20
18	Test tube	50
19	Test tube holder	20
20	Steel tray(12"x11") with lid	15
21	Artery forceps	12
22	Straight scissors (8")	7
23	Curved scissors (Episiotomy Scissors)	2
24	Needle holder	2
25	Plain & Toothed dissecting forceps	2 each
26	Cheatele forceps	4
27	Cheatele forceps holder4	
28	Radiant warmer	
29	Foot operated suction machine (optional)	
30	N R bag	2
31	Baby weighing machine	1
32	Infantometer	1
33	Penguin mucus sucker/De Lees mucous extractor	5
34	Shoulder roll	5
35	Self- inflating resuscitation bag (500&250ml capacity)	4(2 each)
36	Mask(0 &1 size)	4(2 each)
37	Oxygen hood	2
38	Nebulizer	1
39	Salbutamol metered dose inhaler (MDI) with spacer	5
40	Plastic bowl	10
41	Steel bowl with lid (small)	20
42	Plastic containers(closed)	5
43	Plastic basin	10
44	Measuring spoons-different sizes	20

Sl. No	Item	Quantity
45	Trays to be kept in the labor room: Delivery tray, Episiotomy tray, Baby tray, Medicine tray, Emergency drug tray, MVA tray, and PPIUCD tray	
46	FP counseling kit	1
47	Contraceptive basket:	
	One plastic basin containing -	5 each
	OCP (Mala-N)	
	Cu-T 380 A	
	Cu 375 (Multi load)	
	Male/ Female condoms	
	Emergency pills	
48	Scissors (plain)	2
49	Kelly's pad	4
50	Sim's speculum	2
51	Cuscus speculum	2
52	Long artery forceps	12
53	Mayo's scissors	12
54	Vulsellum/ Tenaculum	2
55	Uterine sound	2
56	Anterior vaginal wall retractor	2
57	Sponge holder	2
58	PPIUCD forceps/ Kelly's forceps	2
59	Water source	
60	Large plastic tub	10
61	SS drum	2
62	Puncture proof, leak-proof, tamper-proof containers	5
63	Boiler	1
64	Autoclave with drum	1
65	Big steam sterilizer	1
66	Electric/ induction stove	1
67	Foot operated colour coded bins-4 colours (yellow, red, black & blue)	4 each
68	IV Stand	4
	Furniture	
69	Labour table with foam mattress- stainless steel	2
70	Delivery trolley	2

D. Consumables

Sl. No.	Item	Quantity
1	Glucometer strips and lancets	200
2	Distilled water (1 litre)	10
3	N/10 HCL (2/5 L)	4
4	Dropper	10
5	RDT Malaria kit	40
6	Uristix(100 strips/box)	2
7	Pregnancy detection kit	40
8	Specimen container	10
9	Benedict's solution (100ml bottle)	10
10	Acetic acid (100ml/bottle)	10
11	Match box	20
12	Spirit(100ml/bottle)	10
13	Examination gloves-medium & large	20 each
14	Cotton roll(500gm)	10
15	Cotton swabs and gauze pieces(packet)	5 each
16	Adhesive tape (roll)	10
17	Povidone iodine (Betadine)-100ml bottle	2
18	Cord clamp	20
19	Sterile suction catheters (new born size)	4
20	Eye pad (new born)	2
21	Catgut mounted with round body needle	25
22	Sterile pads(packets)	5
23	Inj. Oxytocin (5&10 IU)ampules	20 (10 each)
24	Misoprostol tablets (600mcg)	20
25	2% Xylocaine (25ml/ bottle)	4
26	Inj. MgSO ₄ 50% (2ml/ampule)	40
27	Salbutamol respules	20
28	ORS packets	
29	Identification tag- new born and mother	2 each
30	Marker pens (blue, red, green and black) 1 box each	8
	PPE	
31	Apron	25
32	Cap (100/pack)	15
33	Mask (100/ pack)	15
34	Goggles	10
35	Shoe cover (pair wise)	100
36	Sterile gloves -6.5 (25 pairs/box)	20
37	Sterile gloves - 7(25 pairs/box)	20

Sl. No	Item	Quantity
38	Shoe cover dispenser	2
39	IV Cannulas-(different sizes) & IV Set	20
40	IV Fluids RL/NS	20
41	Tourniquet	5
42	Intra venous catheter (Venflon 16,18,20,22,24 size needle	10 each
43	Syringes-25 ml, 10 ml, 5ml, 2ml, with needle (box of 25)	2 boxes each
44	Needles (22 gauge)	50
45	Foly's and plain catheter	25 each
46	Urobag	25
47	IUCD (Expired ones may be used)	20
48	Disposable nasal prongs- Adult	20
49	Disposable nasal prongs-child	20
	Linen	
50	New born dress	4
51	Caps (new born)	4
52	Socks (new born)	4
53	Diaper/ nappy (30 piece/packet)	1
54	Blanket (newborn)	4
55	Blanket (mother)	10
56	Bed sheets	10
57	Pillow	4
58	Pillow covers	10
59	Draw sheets	20
60	Towel(1 meter)	20
61	KMC dress	5
62	Delivery gown	2
63	Curtains (6 feet length)	20
64	Clean cloth	
65	Plastic tea spoon	4
66	Soft brush	10
67	Utility gloves(rubber)	20
68	Bleaching solution/ bleaching powder	
69	Liquid/ powder detergent(1 kg packet)	2
70	Card board boxes with white and blue coloured marking	5 each
71	Red and yellow (chlorinated and non - chlorinated) coloured plastic bags or containers	5 each
72	Autoclave safe plastic bags/ containers	5
73	Plastic tray	10

Sl. No.	Item	Quantity
74	Plastic mug (1 lit)	10
75	Measuring jar(2 lit)	4
76	Dry duster cloth	25
77	Mops	4
78	Pitcher (10-15 lit)	4

6. Child Health Nursing

A. Models and Manikins (Mannequins)/ Simulators

Sl. No	Item	Quantity
1	Pediatric training manikin	2
2	Infant and child airway management trainer	1 each
3	Infant injectable head	2
4	Infant auscultation simulator	2
5	NG Tube trainer (pediatric)	2
6	Pediatric multi venous training arm kit	2

B. Charts

Sl. No	Item	Quantity
1	Growth and development chart	1
2	Weaning food chart	1
3	Breast feeding positions	20
4	IMNCI chart (12 posters)	1 set
5	CPR- infant and child	1 each

C. Equipment/ Instruments

Sl. No	Item	Quantity
1	Feeding tubes (5&6 sizes)	30
2	Feeding cups	4
3	Feeding spoons/ katori & spoon	6 sets
4	Measuring spoons	1 set
5	Measuring cups	1 set
6	Infantometer	2
7	Breast pump	2
8	Biopsy needle- child	2
9	IV Canula and sets	10
10	IV Stand	2
11	Infusion pump/ Syringe pump	1
12	Mucus sucker	4
13	Sauce pan (3-5 lit. capacity)	1
14	Electric/ induction stove	1
15	Emergency & Drug tray	1
16	Nebulizer with mask (different sizes for child)	2
17	Syringes with needles-25/ 10/ 5/ 2 ml	20 each
18	Tpys for different age groups	
19	Weighing scale-infant & child	2 each
20	Plastic basin for baby bath and other accessories (Hair oil, shampoo, soap dish with soap/ body wash, body lotion/ body oil, powder etc.)	4

D. Furniture

Sl. No	Item	Quantity
1	Patient cots (child)	2
2	Bed side locker	2
3	Stool/ chair	2

E. Linen

Sl. No	Item	Quantity
1	Mattress-child	2
2	Mattress cover	2
3	Bed sheets	12
4	Draw sheets	6
5	Blankets	2
6	Towels	12
7	Dress for children- sizes according to age groups	2 sets each
8	Diaper for infants-different sizes	12
9	Sponge cloth	12
10	Duster	24

7. Midwifery Kit for Home Delivery

Total number of kits-2

Each kit will contain the following items:

S. No	Item	Quantity
1	Bowls- medium& small	2 each
2	Kidney tray- medium &small	2 each
3	Enema can with tubing	1
4	Fetoscope	1
5	Artery forceps	2
6	Thumb forceps- toothed & non toothed	1 each
7	Cord cutting blade/ scissors	1
8	Cord ties	1
9	Mucus sucker	1
10	Cotton swabs	
11	Mackintosh	2 pairs
12	Gloves	1
13	Mask	1
14	Apron	1
15	Rubber catheter	1
16	Spring balance-color coded	1
17	Syring with needles- 2cc,5cc, 10cc	1 each
18	Shaving set	1
19	Spirit	1
20	Soap with dish	1
21	Hand towels	1
22	Measuring tape	1
23	Old news papers	

Annexure F

Table showing Minimum standard requirements for annual intake up to 250 seats

I. Infrastructure

		Up to 60	61-100	101-150	151-200	201-250
Area of land	Single plot in acres	3	3	3	3	3
College building	Permanent. Rent up to 2 yrs permitted					
Constructed area	In sq. ft.	24000	33400	44850	56100	68050
B. Sc Nursing class room	4 nos @ 15 sq. ft/ student	1080	1500	2250	3000	3750
PB B.Sc. Nursing class room	2 nos	1080	1500	2250	3000	3750
M.Sc. Nursing common class room	2nos	Minimum 500				
M.Sc. Nursing specialty class room	one per specialty	Minimum 200				

II. Labs

Foundations of nursing area	1500 + 10sq.ft / student	1500	2000			
No of beds	1:6	7-10	10-17			
No of articles(sets)		10-12	13-19			
Adult manikin		4-5	5-8	10-12	12-15	15-20
CPR manikin		1	2	3	4	5
Nutrition area	900 + 200 / 50 students	900	1100			
OBG area		900	1100			
Bed		2	3			
Manikin		2	3			
Child health area		900	1100			

Cot		2	3			
manikin		2	3			
Community area		900	1100			
bag	1:2	30	50	75	100	125
Computer area		1500	2000			
No of computers	1:5	8-12	12-20	20-30	30-40	40-50
Preclinical science lab :area	Not attached to MC	900	1100			
Advanced lab area		1000	1500			
Manikin(High fidelity preferably)		1	1			
CPR		1	1			
AV aid room		600	600	600	600	600
LCD/IB	1 per class room					

III. Examination Hall

Area						
Seating capacity	1 batch + supplementary	100	150	175	225	275

IV. Library

Area	15 sq.ft/student	2400	3000	3750	4500	5250
Seating capacity	Half of total strength	120	120-200	200-300	300-400	400-500

	I year	II year	III year	IV year	61-100	101-150	151-200	201-250
Books	1000	1500	2500	3000	3750	4500	5250	6000
Journals	5	8	12	15	20	25	30	35
National	3	5	8	10	14	17	20	23
International	2	3	4	5	6	8	10	12
Annual purchase					100	150	200	250

V. Office infrastructure

Principal		300	300	300	300	300
Vice Principal		200	200	200	200	200
Staff room / Office		800	800	1000	1000	1000
Faculty room	100/ Faculty	2200	4000	6000	8000	10000
Common room	3 nos@	500	800			
Auditorium/ MPH. Area		3000	4500	6500	8500	11000
Seating capacity		300	450	650	850	1100
Toilets: number	1:10	30	45	65	85	105
Area		800	1400	2000	2600	3200

VI. Hostel

Total area		30750	30750	44900	58500	72650
Room space	50 sq ft / student	12000	20000	30000	40000	50000
Total number	30% minimum	240	400	600	800	1000
Toilets & bath room	1:5(30 sq ft)	48	80	120	160	200
Dining hall area	10 sq.ft / student	3000	4000	6000	8000	10000
Dining hall seats	80% of total	192	320	480	640	800
Sick room	beds	5	8	10	10	10
Cleaning staff	1/ 10000 sq ft	3	3	4	6	7
House Keeper	1/50 students	3	5	6	8	10
Cooks	1/20 students	5	8	10	12	14
Supplier	1/20 students	5	8	10	12	14
Visitors room		500	750	1000	1000	1000

Reading room		250	400	500	600	700
Store room		500	500	750	750	1000
Recreation room		500	600	750	900	1000
Kitchen store		1500	1600	1750	1900	2000
Wardens room		450	450	450	450	450

VII. Budget

Annual expense	Approximate amount	2 crore	3 cr	4cr	5 cr	6 cr
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VIII. Clinical Facilities

I.P.	1:3	200	300	450	600	750
Medical bed		40	60	80	100	125
Surgical bed		40	60	80	100	125
Paediatrics		30	40	50	70	80
OBG		40	60	80	100	125
Ortho		15	20	30	50	60
Emergency		10	15	20	30	40
Other speciality		25	45	80	110	145
Psychiatry		20	20	30	40	50
General ward	20% of total beds					
Major operations / month		100	150	200	250	300
Normal deliveries / month		100	150	200	250	300
No of registered nurses	1:4 each shift	50	75	112	150	188
Distance of Parent hospital from college		15	15	15	15	15

Distance of affl. hospital		30 km	30	30	30	30
Psychiatric hospital	Minimum 50 beds	30-50 km	30-50	30-50	30-50	30-50
No of affiliations (parent & affl.)		3	3	3	3	3

IX. Teaching Faculty B.Sc. Nursing

	Up to 40	41-60	61-100	101-150	151-200	201-250
Principal	1	1	1	1	1	1
Vice Principal	1	1	1	1	1	1
Professor	1	1	1-2	2-4	4-6	6-10
Asso. Professor	2	2	2-4	4-8	8-12	12-15
Asst. Professor	3	3	3-8	8-12	12-16	16-20
Tutor	8	9-16	16-24	24-34	34-44	44-53
Total	16	17-24	24-40	40-60	60-80	80-100

M.Sc. Nursing

Additional faculty	10 - 25 seats
Professor	1
Associate professor	1
Assistant professor	3

Post Basic B.Sc. Nursing

Additional faculty	20 - 40 seats	40 - 60 seats
Professor	0	1
Associate professor	0	2
Assistant professor	2	3
Tutors	2-6	9-17

Separate faculty for GNM/ANM courses in addition to this if these courses are conducted.