ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ
Rajiv Gandhi University Of Health Sciences, Karnataka
4th T Block, Jayanagar, Bengaluru 560041.
registrar@rguhs.ac.in , +91-80-29601928

No. RGUHSB/RRAC/AUTH(MEET)/25/193SYN/2024 Date: 20.01.2025

NOTIFICATION

Sub: Revised ordinance governing guidelines for granting increase in intake for Undergraduate Allied Health Sciences (AHS) Courses for the AHS institutions attached to Medical colleges and standalone Super Speciality institutions affiliated to RGUHS.

Ref:
1. Notification No. RGU/AUTH/135-SYN/36(1)/2018-19, Dated 17.09.2018
2. No. RGU/AHS/MSR-Committee/01/2024-05, Dated 06.11.2024
3. Recommendation of BOS AHS (UG) meeting held on 19.11.2024
4. Minutes of CAC meeting held on 03.12.2024
5. Minutes of 193rd Syndicate (Special) meeting held on 05.12.2024
6. Corrigendum No. No. RGUHSB/RRAC/AUTH(MEET)/25/193SYN/2024, Dated 12.12.2024

Preamble:

The Committee formed to evaluate the need for enhancing the intake of B.Sc. Allied Health Science (AHS) courses has concluded that increasing the intake capacity for certain B.Sc. AHS courses is necessary. This decision is driven by the need for capacity building within the AHS field to meet both current demands and future needs in healthcare. After due deliberation it was recommended to increase the intake for certain B.Sc AHS courses in AHS institutions attached to Medical Colleges affiliated to RGUHS.

The Board of Studies in its meeting held on 19.11.2024 further deliberated and recommended an increase in intake for 06 BSc AHS courses (B.Sc MLT, B.Sc MIT, B.Sc CCT, B.Sc AT & OT, B.Sc RDT & B.Sc ECT) in AHS institutions attached to Medical colleges & standalone Super Speciality Institutions affiliated to RGUHS. Further, the recommendation of the Board of Studies AHS (UG) was approved in the CAC meeting held on 03.12.2024 and was placed before the 193rd Syndicate (Special) meeting held on 05.12.2024. Hence, this notification.

No. RGUHSB/RRAC/AUTH(MEET)/25/193SYN/2024, Date: 03.01.2025

In exercise of the powers conferred under the section 35(2) of the RGUHS Act 1994 and as per the decision of the Syndicate in its 193rd Special meeting held on 05.12.2024, the University is pleased to notify the Revised

Ordinance governing Minimum Standard Requirement guidelines for granting maximum increase in intake for the following 06 B.Sc Allied Health Science courses (AHS) offered by AHS institutions attached to Medical Colleges & standalone Super Speciality Institutions affiliated to RGUHS as per annexure appended to this notification.

1. B.Sc. Medical Laboratory Technology upto 60 seats
2. B.Sc. Medical Imaging Technology upto 60 seats
3. B.Sc. Cardiac Care Technology upto 40 seats
4. B.Sc. Anaesthesia & Operation Theatre Technology upto 60 seats
5. B.Sc. Renal Dialysis Technology upto 40 seats
6. B.Sc. Emergency Medicine and Trauma Care Technology upto 40 seats

The Ordinance shall come into force from the academic year 2025-26.

Signed by
Pallakki Ramanna Shiva Prasad
Date: 21-01-2025 15:01:43

(As approved in e-Office file No. 78953) **REGISTRAR**

Copy to:

1. The Special Secretary to Governor, Raj Bhavan, Bengaluru – 560 001
2. Private Secretary to Hon'ble Minister for Medical Education, Skill Development, Entrepreneurship & Livelihood Department and Pro-Chancellor of RGUHS, Bengaluru
3. Personal Secretary to Principal Secretary to Government, Medical Education, M S Building, Bengaluru – 560 001.
4. The Principals of affiliated AHS Colleges.
5. The Director, Department of Curriculum, RGUHS.
6. The Deputy Registrar, Admission/Affiliation - Physiotherapy, RGUHS
7. PA to Vice-Chancellor/ Registrar / Registrar (Evaluation), RGUHS
8. RGUHS Webserver – To host on website
9. Guard File / Office Copy

Minimum Standard Requirements

B.SC. MEDICAL LABORATORY TECHNOLOGY

RAJIV GANDHI UNIVERSITYOF HEALTH SCIENCE, KARNATAKA
4TH'T'Block, Jayanagar, Bangalore–560041.

MSR to be followed by AHS Institutions/LIC/Documents Scrutiny

Name of the Proposed college: ……
Courses Applied BSc Medical Laboratory Technology (Increase intake from 40 to 60 Seats)

Sl. No.	Particulars	Existing Guidelines as per GOK/RGUHS	Details furnished by the College	Whether the college has fulfilled the requirement
1.	**Name of the Trust/ Society**	Trust/Society should be registered		
2.	**Date of Registration**			
3.	**Minimum age of the Trust / Society**	Minimum 3 years		
4.	**Audit Statement of the Trust / Society**	Past03 year		
5.	**Clinical facilities** **a)Hospital/Lab Should be accredited by NABL/NABH or Government hospital/Lab**	➢ Should own a Lab/ Diagnostics		
		➢ Managed and controlled by a member of the Trust		
		➢ The owner of the Hospital/Lab is a Member of the Trust		
		➢ Pollution control board certificate for 200 samples		
	b)Samples per* For 60 Students	➢ 350 samples / day		
	c)Distance between Hospital/Lab &	➢ Maximum 20 kilometre radius in city limits		

	College	➢	Maximum 30 kilometre radius in rural areas.		
6.	**Building(Own)**	➢	Owner of the building		
		➢	Details of property (Property No & Building Photos)		
		➢	Total sq ft 23,720 Sq ft		
		➢	Building plan approved by the competent authority		
		➢	Upto date tax paid receipt		
		➢	RTC of land		
		➢	Any court case pending against the property		
7.	**Building(Rent / Lease)**	➢	Not allowed		
8.	**Infrastructure**				
	a) Teaching Block	➢	Minimum 24,920 sq ft		
	b) Class Room	➢	3 Rooms (Each not less than 800 sq ft)		
	c)Laboratories	➢	Minimum 03 (Each not less than 1000 sq ft) subjective to course		
	c) Library Books	➢	70 books in each subject 2 journals (National/ international)		
	d) Hostel facilitiesfor students	➢	Separate Hostel for boys and girls With separate wardens		
9.	**Staff details**	➢	No of Teaching Staffs		
10.	**Principal**	➢	01 (01 Post of Vice Principal can be Created among the exiting faculty)		
11.	**Teaching staff**	➢	**08** (including the visiting/ part time faculty)		

12.	**Non-Teaching staff& others**	➢	03		
13.	**Vehicle Details**	➢	Bus		
14.	**Sports & Recreation Facilities**	➢	Outdoor Facility & Indoor Facility		
15.	**KPME Certificate**	➢			
16.	**NABL/NABH certificate**	➢			
17.	**Lab Equipments**	➢	List enclosed		
18.	**Teaching faculty/Clinical material ***	➢	Table enclosed		
19.	Opinion of the Scrutiny Committee for LIC inspection	➢			

*

Teaching faculty	For 10 Seats intake	For 20 Seats intake	For 40 Seats intake	For 60 Seats intake
MD/M.Sc (Non-Med)/M/Sc.MLT—Biochemistry/ Microbiology /Pathology/Hematology & Perfusion technology	01	01	01	01
MD/M.Sc (Non-Med)/M/Sc.MLT—Biochemistry/ Microbiology /Pathology/Hematology & Perfusion technology	00	01	01	01
Lecturer/Assistant Prof/Associate Prof- Anatomy	01(part time/visiting)	01(part time/visiting)	01(part time/visiting)	01(part time/visiting)
Lectures/Assistant Prof/Associate Prof-Physiology	01(part time/visiting)	01(part time/visiting)	01(part time/visiting)	01(part time/visiting)
Lecturer/Assistant Prof/Associate Prof—Biochemistry	01	02	03	03
Lecturer/Assistant Prof/Associate Prof—Microbiology	01	02	03	03
Lecturer/Assistant Prof/Associate Prof—Pathology	01	02	02	02
Tutor (B.Sc. Medical Lab Tech)	01	01	02	03
Clinical Workload & Infrastructure				
Clinical Workload No of tests- Biochemistry	100	120	140	160
Clinical Workload No of tests—Microbiology	25	30	40	50
Clinical Workload No of tests — Pathology (Hematology (50%),Clinical Pathology (25%), Cytology (15%) and Histopathology (10%))	75	100	120	140
Total	200	250	300	350

Functioning Equipment:

Rotary Microtomes—01
Autoclave — 01
Paraffin Embedding bath—01 Water bath — 02
Distilledwaterunit—01
Centrifuge — 03
Histokinette (Automatic tissue processor)—01(optional)
Microscope - one per student
Tissue Flotation bath—01 PH Meter — 01
Incubator — 01
Hotairoven—01
Hemoglobino meter-one per student
Hemocytometer — one per student
Laboratory stirrer — 01
Laboratorycounter—01
RBCSedimentationapparatus—one per student **Colorimeter — 02**
Spectrophotometer—01
Flame Photometer — 01
Electrophoresis Equipment—01 Chromatography
chambers—01 **Albuminometer — 02**
Refrigerator — 01
Digitalbalance-01
Non pan Sensitive Balance—01 **Urinometer — 10**
Semi auto analyzer--01 Auto analyser — 01
(should cover range of tests) (optional) Automated Cell
Counter—01(optional) Laminar Flow cabinet — 01
VDRL Rotator—01
Anaerobic Culture apparatus— 01
ELISA Reader with washer - 01

Apart from the above mentioned equipment's necessary glassware, kits, chemicals, media as per the syllabus requirements should be made available in adequate quantity.

1. Minimum eligibility requirements for Candidates

A candidate seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences course from SI.No.1 to 14 shall have studied English as one of the principal subject during the tenure of the course and for those seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences courses mentioned above except for B.Sc. Imaging Technology and B.Sc. Radiotherapy Technology shall have passed:

1. Two year Pre-University examination or equivalent as recognized by Rajiv Gandhi University of Health Sciences with, Physics, Chemistry and Biology as subjects of study.

OR

2. Pre-Degree course from a recognized University considered as equivalent by RGUHS,(Two years after ten years of schooling} with Physics, Chemistry and Biology as subjects of study.

OR

3. Any equivalent examination recognized by the Rajiv Gandhi University of Health Sciences, Bangalore for the above purpose with Physics, Chemistry and Biology as subjects of study.

OR

1. The vocational higher secondary education course conducted by Vocational Higher Secondary Education of any other State Government with five subjects including Physics, Chemistry, Biology and English in addition to Vocational subjects conducted is considered equivalent to plus TWO examinations of Government of Karnataka Pre University Course.

2. Candidates with two years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in SI. No.1to14 shall have passed Diploma [10+2] with Physics, Chemistry and Biology, as subjects or candidates with 3 years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in SI.No.1to14should have studied Physics, Biology and Chemistry as subjects during the tenure of the course.

3. Lateral entry to second year for allied health science courses for candidates who have passed diploma program from the Government Boards and recognized by RGUHS, fulfilling the conditions specified above under Sl. No.5 and these students are eligible to take admission on lateral entry system only in the same subject studied at diploma level from the academic year 2008-09 vide RGUHS Notification no. AUTH/AHS/317/2008-09 dated: 01.08.2008.

4. Incase of admission to B.Sc. Imaging Technology Or B.Sc. Radiotherapy Technology the candidate should have passed Pre University or equivalent examination with Physics, Chemistry, Biology and Mathematics, as subjects of study.

Note

a. The Candidate shall have passed individually in each of the principal subjects
b. Candidates who have completed diploma or vocational course through correspondence shall not be eligible for any of the courses mentioned above

2. INFRASTRUCTURE:

- Three Labs each with an area of 800
- Three Classrooms each with a capacity for 60 students. (each not less than 800 Sq. ft -)
- Lab equipment's for Basic Medical Sciences as per the criteria mentioned in Basic Medical Sciences requirements.
  a. Board (Black or White)- Mandatory
  b. Multimedia/Computer and its accessories/LCD Projector-Mandatory

3. MINIMUM REQUIRENENTS FOR TEACHING BASIC MEDICAL SCIENCES SUBJECTS:

- **ANATOMY :**
  Specimens, Models, Charts, Dissected body parts, slides as per syllabus.

- **PHYSIOLOGY:**
  One Microscope per student, One Stethoscope per student, demonstration equipment for complete blood count, Blood grouping and matching kits, B.Papparatus one per student, Staining apparatus with few common stains, Spirometer for demonstration purpose.

- **BIOCHEMISTRY:**
  Digital balance, titration apparatus, laboratory glassware, calorimeter, spectro photo meter, pHmeter, basic kits for determining urine sugars/ket one bodies, proteins etc.

- **MICROBIOLOGY:**
  Microscope, Hotairoven, Autoclave, Incubator, Electronic analytical balance, Waterbath ,Vortexmixer, Laminar air flow chamber, Glasswares (beaker, conical flask, pipettes, testtubes, petridish),Refrigerator,Felix & drayer'stube, Bunsenburner, Culturemedia ,Centrifuge, Inoculationloop, Latexagglutination tiles, Vdrlrotator, L4cintoshfilderanaerobicjar, Microtitreplate,Tnspisator

- **PATHOLOGY:**
  Haemocytometer — rbc & wb ccount ,Haemoglobinometer ,Wintrobes tube, Westergren tube & stand ,Lancet ,Capilary tube ,Whats man no.1 filter paper, Centrifuge, Microscope,Glassslide, Testtubes, Blood groupreagent, Dpx,Coplinjar,H&estain,Leishmanstain,brilliant cresylbluestain, pasteurpipette,specialstains, dilutingfluid - rbc, wbc, pit, pap stain, Coomb's reagent, Phosphate buffer, Distilled water

4. Teaching Staff:

Principal/Professor & HOD,

- MD (Microbiology/Biochemistry/Pathology/Physiology)with 5 years teaching experience
- M.Sc.(3 years course) (Medical Microbiology/Medical Bio chemistry) with 9 years of teaching experience in a MLT college
- M.Sc. MLT(2 years course) (microbiology/clinical biochemistry/hematology & blood banking)with10years teaching experience in a MLT College
- PhD from faculty of medicine/Allied health sciences with 3 years post PhD teaching experience

Associate Professor:

a} M.Sc. Medical (Anatomy, Physiology, Biochemistry, Microbiology} with 6 years teaching experience

MD (Microbiology/Biochemistry/Pathology/Physiology) with 2 years teaching experience MS (Anatomy, Physiology, Biochemistry, Microbiology) with 2 years teaching experience M.Sc. Ph. d - minimum 3 year

M.Sc. MLT (2 years course) (Clinical Biochemistry, Clinical Microbiology & Immunology, Hematology & Blood Banking)- minimum 07 years teaching experience

Assistant Professor:
M.Sc. Medical (03 years course) (Anatomy, Physiology, Biochemistry, Microbiology) with 3 years teaching experience
M.Sc. Phd. M.Sc. MLT (02 years course) (Clinical Biochemistry, Clinical Microbiology & Immunology, Hematology & Blood Banking)- minimum 4 years teaching experience
M.D. (Biochemistry, Microbiology, Pathology} Fresh candidate

Lecturer:
M.Sc. Medical (03 years course) (Anatomy, Physiology, Biochemistry, Microbiology)
M.Sc. MLT (02 years course) (Clinical Biochemistry, Clinical Microbiology & Immunology, Haematology & Blood Banking}

Tutor/Lab instructor:
B.Sc. MLT

Minimum no. of Faculty in each Department:
Anatomy : ONE Physiology: ONE, Biochemistry: THREE, Microbiology: THREE, Pathology: THREE

ONLY for Anatomy & Physiology subjects visiting faculty services can be availed subject to the qualification criteria for respective subjects Part time teachers' services can be availed for subsidiary subjects

Library: Standard reference books and journals should be made available in each of the subject speciality.

Each subject should have 50 books each. Guide too student ratio for M.Sc : 4:1

Clinical workload
Rotational Postings: 30 days in 2nd year and 30 days in 3rd year
Phlebotomy
Microbiology (Bacteriology & Immunology)
Biochemistry
Blood bank
Pathology (Haematology, Histopathology & Clinical Pathology) Cyto genetics is optional

Minimum Standard Requirements

B.SC. MEDICAL IMAGING TECHNOLOGY

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCE, KARNATAKA
4TH 'T' Block, Jayanagar, Bangalore – 560 041.

MSR to be followed by AHS Institutions/LIC/Documents Scrutiny

Name of the Proposed college……

1	**Name of the Trust / Society**	Trust / Society should be registered			
2	**Date of Registration**				
3	**Minimum age of the Trust / Society**	Minimum 3 years			
4	**Audit Statement of the Trust / Society**	Past 03 year			
5	**Government Hospital /Diagnostics Or Hospital/Lab be accredited by NABH /NABH**		Should own all the equipment mentioned in the mandatory requirements		
			Managed and controlled by a member of the Trust		
			The owner of the Hospital is a member of the Trust		
			All the Radio-Diagnostic units should get registered under AERB		
			All the USG units and other Imaging systems should get registered under PNDT Act		

6	**Building (Own)**		Owner of the building		
			Details of property (Property No & Building Photos)		
7	**Infrastructure Building (Rent / Lease)**		Total sq. ft 23,720 Sq. ft		
			Building plan approved by the competent authority		
			Up to date tax paid receipt		
			RTC of land		
			Any court case pending against the property		
			Not allowed		
8	**Teaching Block**		Minimum 23,720 sq. ft		
9					3
			Minimum 03 (Each not less than 800 Sq. ft) subjective to course		
	Library		50 books in each subject 4 Journals (National/International for MSc programme)		
	Hostel facilities for students		Separate Hostel for boys and girls with separate wardens		
	Staff details		No of Teaching Staffs		
	Principal		01		

9.	**Staff details**	➢	No of Core Sp. Teaching Staffs	P		AP		Asst.P		L		D		LT		Total	
10.	**Principal**	➢	01														
11.	**Teaching staff**	➢	07(including the visiting/part time faculty														
12.	**Non-Teaching staff & others**	➢	03														
13.	**Vehicle Details**	➢	Bus														
14.	**Sports & Recreation Facilities**	➢	Outdoor Facility & Indoor Facility														
15.	**KPME Certificate**	➢															
16.	**NABL/NABH certificate**	➢															
17.	**Lab Equipments**	➢	List enclosed														
18.	**Teaching faculty/Clinical material ***	➢	Table enclosed														

Annexure-1

Lab Equipment:

I. Minimum Mandatory Equipment

- Mobile Digital X-ray Machine - 2 No.s
- Fixed Digital X-ray Machine with Bucky Table - 1 No
- Portable X-Ray – 2 no's
- Radiography and Fluoroscopy Unit - 1 No
- CT Scanner - 1 No
- MRI Unit - 1 No
- Dental X-ray Unit - 1 No
- Mammography Unit - 1 No
- Doppler Ultrasound Scanning System - 1 No
- Bone-mineral Densitometer - 1 No
- Quality Assurance Kit for Diagnostic Radiology - 1 No

* Note: Apart from the above list of course specialized equipment, the minimum requirement for teaching basic medical sciences should be available.

II. Optional Equipment

-SPECT-PET
-Catheterization Labs
-Tactile imaging

Annexure-2

Teaching faculty	For 20 seats intake	For 40 Seats intake	For 60 Seats intake
MD Radiology with 10 years of experience.	01	02	03
MD Radiology with 5 years of experience.	01	02	03
M.Sc. MIT with 6 years of experience / BSc MIT with 8 years of experience.	01	02	03
Lecturer / Assistant Prof / Associate Prof - Anatomy	01(part time/visiting)	01 (Full tine) and 01(part time/visiting)	02 (Full tine) and 02 (part time/visiting)
Lectures/Assistant Prof / Associate Prof - Physiology	01(part time/visiting)	01 (Full tine) and 01(part time/visiting)	02 (Full tine) and 02 (part time/visiting)
Lecturer/Assistant Prof / Associate Prof — Biochemistry	01(part time/visiting)	01 (Full tine) and 01(part time/visiting)	02 (Full tine) and 02 (part time/visiting)
Lecturer/Assistant Prof / Associate Prof — Microbiology	01(part time/visiting)	01 (Full tine) and 01(part time/visiting)	02 (Full tine) and 02 (part time/visiting)
Lecturer/Assistant Prof / Associate Prof — Pathology	01(part time/visiting)	01 (Full tine) and 01(part time/visiting)	02 (Full tine) and 02 (part time/visiting)
Clinical Workload & Infrastructure			
Clinical Workload Minimum No of X-ray imaging being done per day	50	90	125
Clinical Workload Minimum No of CT Scans being done per day	15	30	45
Clinical Workload Minimum No of MR Imaging being done per day	5	10	20
Clinical Workload Minimum No of Fluroscopy procedures being done per month	5	10	20

1. Minimum eligibility requirements for Candidates:

A candidate seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences course from SI. No. 1 to 14 shall have studied English as one of the principal subject during the tenure of the course and for those seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences courses mentioned above except for B.Sc. Imaging Technology and B.Sc. Radiotherapy Technology shall have passed:

Two year Pre-University examination or equivalent as recognized by Rajiv Gandhi University of Health Sciences with, Physics, Chemistry and Biology as subjects of study.

OR

Pre-Degree course from a recognized University considered as equivalent by RGUHS, (Two years after ten years of schooling) with Physics, Chemistry and Biology as subjects of study.

OR

Any equivalent examination recognized by the Rajiv Gandhi University of Health Sciences, Bangalore for the above purpose with Physics, Chemistry and Biology as subjects of study.

OR

The vocational higher secondary education course conducted by Vocational Higher Secondary Education of any other State Government with five subjects including Physics, Chemistry, Biology and English in addition to vocational subjects conducted is considered equivalent to plus TWO examinations of Government of Karnataka Pre University Course.

Candidates with two years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in SI. No. 1 to 14 shall have passed Diploma [10+2] with Physics, Chemistry and Biology, as subjects or candidates with 3 years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in SI. No. 1 to 14 should have studied Physics, Biology and Chemistry as subjects during the tenure of the course.

Lateral entry to second year for allied health science courses for candidates who have passed diploma program from the Government Boards and recognized by RGUHS, fulfilling the conditions specified above under sl. No. 5 and these students are eligible to take admission on lateral entry system only in the same subject studied at diploma level from the academic year 2008-09 vide RGUHS Notification no. AUTH/AHS/317/2008-09 dated 01.08.2008.

In case of admission to B.Sc. Imaging Technology Or B.Sc. Radiotherapy Technology the candidate should have passed Pre Universiy or equivalent examination with Physics, Chemistry, Biology and Mathematics, as subjects of study.

Note:

The Candidate shall have passed individually in each of the principal subjects Candidates who have completed diploma or vocational course through correspondence shall not be eligible for any of the courses mentioned above

2. INFRASTRUCTURE:

Three Labs each with an area of 800 Sq. ft
Three Class rooms each with a capacity for 20 students.(each not less than 600 sq. R. each)
Lab equipment's for Basic MedicaI Sciences as per the criteria mentioned in
Basic Medical Sciences requirements. a. Board (Black or White) - Mandatory
b. Multimedia / Computer and its accessories / LCD Projector- Mandatory

3. MININUN REQUIRENENTS FOR TEACHING BASIC MEDICAL SCIENCES SUBJECTS:

ANATOMY :

Specimens, Models, Charts, Dissected body parts, slides as per syllabus.

PHYSIOLOGY:

One Microscope per student, One Stethoscope per student, demonstration equipment for complete blood count, Blood grouping and matching kits, B.P apparatus one per student, Staining apparatus with few common stains, Spirometer for demonstration purpose.

BIOCHEMISTRY:

Digital balance, titration apparatus, laboratory glassware, calorimeter, spectrophotometer, pH meter, basic kits for determining urine sugars / ketone bodies, proteins etc.

MICROBIOLOGY:

Microscope, Hot air oven, Autoclave, Incubator ,Electronic analytical balance ,Water bath ,Vortex mixer ,Laminar air flow chamber ,Glass wares (beaker, conical flask, pipettes, test tubes, petridish) ,Refrigerator ,Felix &drayer‘s tube ,Bunsen burner ,Culture media ,Centrifuge ,Inoculation loop ,Latex agglutination tiles ,Vdrlrotator ,L4cintoshfilder anaerobic jar , Micro titre plate ,Tnspisator

PATHOLOGY:

Haemocytometer — rbc&wbc count ,Haemoglobino meter ,Wintrobes tube, Westergren tube & stand ,Lancet ,Capilary tube ,Whatsman no.1 filter paper, Centrifuge, Microscope, Glass slide, Test tubes, Blood group reagent, Dpx, Coplin jar, H & e stain ,Leishman stain, brilliant cresyl blue stain, pasteur pipette, special stains, diluting fluid - rbc, wbc, pit, pap stain, Coomb's reagent, Phosphate buffer, Distilled water

4.Teaching Staff:

Principal / Professor & HOD,

MD (Radiology) with 10 years teaching experience.

M.Sc. MIT (2 years course) with 12 years teaching experience in a MIT College

Associate Professor:

MD (Radiology)with4 years teaching experience

M.Sc. Medical (Anatomy, Physiology, Biochemistry, Microbiology} with 7 years teaching experience

M.Sc. MIT with 8 years teaching experience.

MS (Anatomy, Physiology, Biochemistry, Microbiology) with 4 years teaching experience M.Sc.

M.Sc. MIT + PhD with minimum 5 year of experience.

Assistant Professor:

M.Sc. Medical (03 years course) (Anatomy, Physiology, Biochemistry, Microbiology) with 3 years teaching experience

M.Sc. MIT - minimum 4 years teaching experience

MD(Radiology) Fresh candidate

Lecturer:

M.Sc. Medical (03 years course) (Anatomy, Physiology, Biochemistry, Microbiology) with one year experience
M.Sc. MIT (02 years course) with 2 year experience.

Tutor/Lab instructor :

B.Sc. MIT

Minimum no. of Faculty in each Department:

Anatomy : ONE
Physiology: ONE
Biochemistry: ONE
Microbiology: ONE
Pathology: ONE
Computer Programming: ONE

For PG teaching, faculty with relevant specializations is mandatory. For Guide student ratio to follow university guidelines.

ONLY for Anatomy & Physiology subjects visiting faculty services can be availed subject to the qualification criteria for respective subjects Part time teachers' services can be availed for subsidiary subjects

Library: Standard reference books and journals should be made available in each of the subject specialty. Each subject should have 50 books each .

Clinical work load:

Rotational Postings:30 days in 2nd year and 30 days in 3rd year

Phlebotomy
Microbiology (Bacteriology & Immunology)
Biochemistry
Blood bank
Pathology (Haematology, Histopathology & Clinical Pathology) Cytogenetics is optional

Minimum Standard Requirements

B.SC. CARDIAC CARE TECHNOLOGY

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCE, KARNATAKA
4TH 'T' Block, Jayanagar, Bangalore – 560 041.

MSR to be followed by AHS Institutions/LIC/Documents Scrutiny

Name of the Proposed college: ……
Courses Applied B.Sc. Cardiac Care Technology ……...

Sl. No.	Particulars	Existing Guidelines as per GOK/ RGUHS	Details furnished by the College	Whether the college has fulfilled the requirement
1.	**Name of the Trust / Society**	Trust / Society should be registered		
2.	**Date of Registration**			
3.	**Minimum age of the Trust / Society**	Minimum 3 years		
4.	**Audit Statement of the Trust / Society**	Past 03 year		
5.	**Clinical facilities** **a) Hospital/Lab Should be accredited by NABL/NABH or Government hospital/Lab**	➢ 100 bedded hospital		
		➢ Managed and controlled by a member of the Trust		
		➢ The owner of the Hospital/Lab is a member of the Trust		
		➢ Pollution control board certificate for 100 beds		

	b) Procedures per day	➢	As mentioned in table below		
	c) Distance between Hospital/Lab & College	➢	Minimum 20 kilometre radius in city limits		
		➢	Minimum 30 kilometre radius in rural areas.		
6.	**Building (Own)**	➢	Owner of the building		
		➢	Details of property (Property No & Building Photos)		
		➢	Total sq. ft 23,720 Sq. ft		
		➢	Building plan approved by the competent authority		
		➢	Up to date tax paid receipt		
		➢	RTC of land		
		➢	Any court case pending against the property		
7.	**Building (Rent / Lease)**	➢	Not allowed		

8.	**Infrastructure**				
	a) Teaching Block	➢	Minimum 23,720 sq. ft		
	b) Class Room	➢	3 Rooms (Each not less than 600 sq. ft) 1 seminar hall (not less than 800 sq. ft for M.Sc. programme)		
	c) Laboratories	➢	Minimum 03 (Each not less than 800 sq.ft) subjective to course		
	d) Library Books	➢	50 books in each subject 2 journals (National/international for MSc programme)		
	e) Hostel facilities for students	➢	Separate Hostel for boys and girls with separate wardens		
9.	**Staff details**	➢	No of Teaching Staffs		
10.	**Principal**	➢	01		
11.	**Teaching staff**	➢	07(including the visiting/part time faculty)		
12.	**Non Teaching staff & others**	➢	03		
13.	**Vehicle Details**	➢	Bus		

14.	**Sports &Recreation Facilities**	➢	Outdoor Facility & Indoor Facility		
15.	**KPME Certificate**	➢			
16.	**NABL/NABH certificate**	➢			
17.	**Lab Equipments**	➢	List enclosed		
18.	**Teaching faculty/Clinical material ***	➢	Table enclosed		
19.	Opinion of the of the Scrutiny Committee for LIC inspection	➢			

Subject	For 10 seats intake	For 15 Seats intake	For 20 seats intake	For 40 seats intake
Professor DM (Cardiology)/M.Sc. Cardiac Care, Perfusion Tech, Echocardiography (HOD)	01	01	01	1
Associate Prof DM (Cardiology)/M.Sc. Cardiac Care, Perfusion Tech, Echocardiography		01	01	1
Lecturer/Assistant Professor DM (Cardiology)/M.Sc. Cardiac Care, Perfusion Tech, Echocardiography (HOD)	01	01	01	1
Lectures / Assistant Prof / Associate Prof - Anatomy	01	01	01	1
Lecturer/Assistant Prof / Associate Prof - Physiology	01	01	01	1
Lecturer/Assistant Prof / Associate Prof — Biochemistry	01	01	01	1
Lecturer/Assistant Prof / Associate Prof — Microbiology	01	01	01	1
Lectures/Assistant Prof / Associate Prof — Pathology	01	01	01	1
Tutor (B.Sc. Cardiac care / Perfusion Tech)	01	01	02	2
Clinical Workload & Infrastructure				
Cath Lab procedures	01-03/day	03-05/day	05- 06/day	08-10/day
Echo procedures	15-20/day	20-30/day	30-40/day	40-45/day
TMT procedures	10-15/day	15-20/day	20- 30/day	20-30/day

	Non — Invasive:	INVASIVE
	a. ECG Manual — 2 b. ECG Computerised — 2 c. Stress System Computerised — 02 d. Bicycle Ergometer — 02 e. Echocardiography — 01 With Following • CFM • Spectral • 2D • M-Mode • TEE (Optional) • Dobutamine echo f. Holter Monitor 1. Analyser 2. Recorder g. Telemetry (Optional) h. Tran Telephone ECG (Optional) i. Defibrillator — 5	1. Cath Lab: Dicom compatible Facilities for • Adult cath • Paediatric Cath • Interventional procedures • EP studies (optional} with RF ablation • NIBP • Archiving 2. Cardiac Surgery: Perfusion Technology ° .CPB pump • Off — pump Surgery facilities (optional) • Transplant Service (optional) • Surgical ICU • IABP • Biochemistry — Gas Analyser etc.

Apart from the above mentioned equipments necessary glassware, kits, chemicals, media as per the syllabus requirements should be made available in adequate quantity

Rotational Postings:

a. ECG Department
b. Stress Test — Treadmill / Holter Monitoring section
c. Echo / Doppler section postings
d. Cath Lab
e. Cardiothoracic Unit
f. I.C.C.U
g. Cardiology
h. Cardiac Anaesthesia

5. MINIMUM REQUIREMENTS FOR TEACHING BASIC MEDICAL SCIENCES SUBJECTS:

ANATOMY:

Specimens, Models, Charts, Dissected body parts, slides as per syllabus.

PHYSIOLOGY:

One Microscope per student, One Stethoscope per student, demonstration equipment for complete blood count, Blood grouping and matching kits, B.P apparatus one per student, Staining apparatus with few common stains, Spirometer for demonstration purpose.

BIOCHEMISTRY:

Digital balance, titration apparatus, laboratory glassware, calorimeter, spectrophotometer, pH meter, basic kits for determining urine sugars / ketone bodies, proteins etc.

MICROBIOLOGY:

Microscope, Hot air oven, Autoclave, Incubator, Electronic analytical balance, Water bath , Vortex mixer, laminar air flow chamber, Glass wares (beaker, conical flask, pipettes, test tubes, Petridis), Refrigerator, Felix & dryers' tube, Bunsen burner, Culture media, Centrifuge, Inoculation loop, Latex agglutination tiles ,Vdrl rotator ,McIntosh fields anaerobic jar , Microtiterplate, Inspisator.

PATHOLOGY:

Haemocytometer — rbc&wbc count, Haemoglobinometry ,Wintrobe's tube, Westergren tube & stand ,Lancet ,Capillary tube ,Whatsman no.1 filter paper, Centrifuge, Microscope, Glass slide, Test tubes, Blood group reagent, Dpx, Coplin jar, H & e stain ,Leishman stain, brilliant cresyl blue stain, Pasteur pipette, special stains, diluting fluid - rbc, wbc, plt, pap stain, Coomb's reagent, Phosphate buffer, Distilled water.

Teaching Staff:

1. **Principal / Professor & HOD**,
   DM (cardiologist) with five years teaching Experience in a Medical College
   M.Sc. Cardiac Care/Perfusion Technology / Echocardiography Technology (2 years course) with 10 years teaching experience in a College

2. Associate Professor:
   a) M.Sc. Medical (03 years course) (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology) with 6 years teaching experience
   M.Sc. ELT (2 years course) Microbiology/Biochemistry/Haematology with 7 years teaching experience

   b) ID (Microbiology/Biochemistry/Pathology/Physiology/Pharmacology)- MSe (Anatomy) - As per MCI/NMC norms

   c) M.Sc. Cardiac Care/Perfusion Technology / Echocardiography Technology PhD - minimum 3 year d) M.Sc. Cardiac Care/Perfusion Technology / Echocardiography Technology (2 years course} - minimum 07 years teaching experience

3. Assistant Professor:

a) M.Sc. Medical (03 years course) (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology) with 3 years teaching experience M.Sc. MLT (2 years course) Microbiology/Biochemistry/Haematology with 4 years teaching experience
b) M.Sc. Cardiac Care/Perfusion Technology / Echocardiography Technology PhD.
c) M.Sc. Cardiac Care/Perfusion Technology / Echocardiography Technology (02 years course) - minimum 4 years teaching experience
d) M. D.(Biochemistry, Microbiology, Pathology, Pharmacology) - As per MCI/Norms
e) MSc (Anatomy) - As per MCI/NMC norms

4. Lecturer:

a) M.Sc. Medical (03 years course} (Anatomy, Physiology, Biochemistry, Microbiology, Pathology, Pharmacology) M.Sc. MLT (2 years course) Microbiology/Biochemistry/Haematology with 7 years teaching experience

b) M.Sc. Cardiac Care/Perfusion Technology / Echocardiography Technology (02 years course)

5. Tutor:

B.Sc. CCT/Perfusion Technology

Minimum no. of Faculty in each Department:

- Anatomy: ONE
- Physiology: ONE
- Biochemistry: ONE
- Microbiology: ONE
- Pathology: ONE
- Pharmacology: ONE

For PG teaching, faculty with relevant specializations is mandatory.

- M.Sc.: Cardiac Care/Perfusion Technology: TWO
- B.Sc. Cardiac Care/Perfusion Technology Tutors: At least ONE in each dept.
- Lab Instructors: At least ONE in each departmental practical laboratory

ONLY for Anatomy & Physiology subjects visiting faculty services can be availed subject to the qualification criteria for respective subjects

Part time teacher's services can be availed for subsidiary subjects

Note: mentioned in the syllabus be made available mandatorily

6. Minimum number of faculty: As mentioned above

7. Library: Standard reference books and journals should be made available in each of the subject specialties.

Minimum Standard Requirements

B.SC. ANESTHESIA & OPERATION THEATRE TECHNOLOGY

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES,KARNATAKA

4TH'T' Block, Jayanagar, Bangalore–560041.

MSR to be followed by AHS Institutions/LIC/Documents Scrutiny

Name of the Proposed college:……

Courses Applied : B.Sc. Anesthesia & Operation Theatre Technology

……...

Sl. No.	Particulars	Existing Guidelines as per GOK/RGUHS		Details furnished by the College	Whether the college has fulfilled the requirement
1.	**Name of the Trust/ Society**	Trust/Society should be registered			
2.	**Date of Registration**				
3.	**Minimum age of the Trust / Society**	Minimum3years			
4.	**Audit Statement of the Trust / Society**	Past03year			
5.	**Clinical facilities** **a)Hospital NABH** **Accredited or Government Hospital**	➢	Own 100 bedded Hospital/ Parent Hospital		
		➢	Managed and controlled by a member of the Trust		
		➢	The owner of the Hospital is a member of the Trust		
		➢	Pollution control board certificate for 100 beds		
	b) OPD/IPD & Bed	➢	OPD per day: Minimum 150-200/day		

	Strength	➢	IPD per day: Minimum 30-50/day		
		➢	Bed occupancy: Atleast 60-70%		
	c)Distance between Hospital & College	➢	Minimum20 kilometre radius in city limits		
		➢	Minimum 30 kilometre radius in rural areas.		
6.	**Building (Own)**	➢	Owner of the building		
		➢	Details of property (Property No & Building Photos)		
		➢	Total sq ft:23,720 Sq ft		
		➢	Building plan approved by the competent authority		
		➢	Up to date tax paid receipt		
		➢	RTC of land		
		➢	Any court case pending against the property		
7.	**Building (Rent/ Lease)**	➢	Not allowed		
8.	**Infrastructure**				
	a) Teaching Block	➢	Minimum 23,720sq ft		
	b) Class Room	➢	3 Rooms (Each not less than 600 sq. ft)		
	c) Laboratories	➢	Minimum 03 (Each not less than 600 sq. ft) subjective to course		
	d) Library Books	➢			
	e) Hostel facilities for students	➢	Separate hostel with separate wardens		
9.	**Staffdetails**	➢	No of Teaching Staffs		

10.	**Principal**	➢	01		
11.	**Teaching Staff**	➢	List enclosed		
12.	**Non Teaching staff & others**	➢	03		
13.	**Vehicle Details**	➢	Bus		
14.	**Sports & Recreation Facilities**	➢	Outdoor Facility & Indoor Facility		
15.	**KPME Certificate**	➢			
16.	**Lab Equipments**	➢	List Enclosed		
17.	**Teaching faculty/ Clinical material**	➢	Table Enclosed		

Minimum Teaching Faculty Requirements:

Teaching faculty	For 10 seats intake	For 20 Seats intake	For 40 seats intake	For 60
Principal/Professor –MD/DNB Anesthesia /MS /DNB Gen. Surgery	01	01	01	1
Associate Professor-MD/DNB Anesthesia /MS /DNB Gen. Surgery Msc 8 years	00	00	01	1 + 1 (M Sc)
Assistant Professor -MD/DNB Anaesthesia /MS/DNB Gen. Surgery /MSC OT AT -3 years experience	01	01	01	3 + 1(M Sc)
Lecturer/Assistant Prof/Associate Prof– Anatomy (part time /visiting /full time)	01	01	01	1
Lectures/Assistant Prof/Associate Prof– Physiology (part time/visiting/full time)	01	01	01	1
Lecturer/Assistant Prof/Associate Prof—Biochemistry	01	01	01	1
Lecturer/Assistant Prof/Associate Prof—Microbiology	01	01	01	1
Lecturer/Assistant Prof/Associate Prof—Pathology	01	01	01	1
Tutor(B.Sc. Anesthesia Technology /OT Technology/Anesthesia & OT Technology)	01	02	02	6
Clinical Work load & Infrastructure				
Total number of operation theatres				**16**
Major OTs Minor OTs Casualty /emergency	03	03	04	10 5 1
Min no of procedures per day (Both major and minor)	5 to 7/day	7 to 10/day	15/day	40 (major-20 minor -20) /day

List of Equipments:

- Required in operation theatre
    1. Laryngo scope(Different types)- 1 per table with different blades macintosh, Mccoy, Millers both adult & pediatric
    2. Anaesthesia Machine- 1 per table
    3. Defibrillator- 1/table
    4. Electrocautery-1/table
    5. Infusion pump- 1/table
    6. Difficultintubationcart-1/table
    7. Crashcart- 1/table
    8. Anaesthesia Drugs- IV drugs and inhalational agents and emergency drugs, local anaesthetics
    9. Suctionapparatus-1/table
    10. Surgical instruments-
    11. Breathingcircuits-2 /table
    12. Spinal, epidural&CVPsets
    13. OTTable-1/table
    14. Mayostand-1andsurgicaltrolley-2/table
    15. Observation table
    16. Sterilisation equipments
- Anaesthesia machines or work stations should contain multi paramonitors with NIBP, ECG, ETCO2, SPO2
- Post anaesthesia/recovery room- with monitors and oxygen pipeline
- One IABP is desirable
- Other facilities like ABG, ECHO, Mobile Xray, Blood Bank (Component facilities)should be available.
- Students should be exposed to all types of surgeries like major and minor surgeries and speciality surgeries like cardiac, neuro, ortho and other specialities.

A. Minimum eligibility requirements for Candidates:

A candidate seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences course from SI. No. 1 to 14 shall have studied English as one of the principal subjects during the tenure of the course and for those seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences courses mentioned above except for B.Sc. Imaging Technology and B.Sc. Radiotherapy Technology shall have passed:

1. Two year Pre-University examination or equivalent as recognized by Rajiv Gandhi University of Health Sciences with, Physics, Chemistry and Biology as subjects of study.

OR

2. Pre-Degree course from a recognized University considered as equivalent by RGUHS, (Two years after ten years of schooling} with Physics, Chemistry and Biology as subjects of study.

OR

3. Any equivalent examination recognized by the Rajiv Gandhi University of Health Sciences, Bangalore for the above purpose with Physics, Chemistry and Biology as subjects of study.

OR

1. The vocational higher secondary education course conducted by Vocational Higher Secondary Education of any other State Government with five Subjects including Physics, Chemistry, Biology and English in addition to Vocational subjects conducted is considered equivalent to plus TWO examinations of Government of Karnataka Pre University Course.
2. Candidates with two years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in SI. No. 1to 14 shall have passed Diploma [10+2] with Physics, Chemistry and Biology, as subjects or candidates with 3 years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in SI. No. 1 to 14 should have studied Physics, Biology and Chemistry as subjects during the tenure of the course.
3. Lateral entry to second year for allied health science courses for candidates who have passed diploma program from the Government Boards and Recognized by RGUHS, fulfilling the conditions specified above under sl. No. 5 and these students are eligible to take admission on lateral entry system only in the same subject studied at diploma level from the academic year 2008-09 vide RGUHS Notification no. AUTH/AHS/317/2008-09 dated: 01.08.2008.

Note

a. Incase of admission to B.Sc. Imaging Technology Or B.Sc. Radiotherapy Technology the candidate should have passed Pre-University or equivalent examination with Physics, Chemistry, Biology and Mathematics, as subjects of study.

b. The Candidate shall have passed individually in each of the principal subjects

c. Candidates who have completed diploma or vocational course through correspondence shall not be eligible for any of the courses mentioned above

B. INFRASTRUCTURE:

- Three Labs each with an area of 800 Sq. ft
- Three Classrooms each with a capacity for 20 students. (each not less than 600 sq. ft. each)
- Lab equipment's for Basic Medical Sciences as per the criteria mentioned in Basic Medical Sciences requirements.
  a. Board (Black or White) -Mandatory
  b. Multimedia /Computer and its accessories/LCD Projector-Mandatory

C. MINIMUM REQUIREMENTS FOR TEACHING BASIC MEDICAL SCIENCES SUBJECTS:

- **ANATOMY:**
  Specimens, Models, Charts, Dissected body parts, slides as per syllabus.

- **PHYSIOLOGY:**
  One Microscope per student, One Stethoscope per student, demonstration equipment for complete blood count, Blood grouping and matching kits, B.P apparatus one per student, Staining apparatus with few common stains, Spirometer for demonstration purpose.

- **BIOCHEMISTRY:**
  Digitalbalance, titrationapparatus, laboratory glassware, calorimeter, spectrophoto meter,pHmeter, basic kits for determining urine sugars / ketone bodies, proteins etc.

- **MICROBIOLOGY:**
  Microscope, Hotairoven, Autoclave, Incubator, Electronic analytical balance, Water bath,Vortexmixer, Laminarair flow chamber, Glasswares (beaker, conical flask, pipettes, test tubes, petridish), Refrigerator, Felix & drayer's tube ,Bunsen burner ,Culture media ,Centrifuge ,Inoculation loop ,Latex agglutination tiles, Vdrlrotator ,L4cintoshfilder anaerobic jar , Micro titre plate, Tnspisator

- **PATHOLOGY:**
  Haemocyto meter —RBC& WBC count, Haemoglobino meter ,Wintrobestube, Westergrentube&stand,Lancet,Capilarytube ,Whatsmanno.1filterpaper, Centrifuge, Microscope, Glassslide, Testtubes, Blood group reagent, Dpx, Coplinjar, H&estain ,Leishmanstain, brilliant cresylbluestain, pasteurpipette, special stains,diluting fluid -rbc,wbc, pit, papstain,Coomb'sreagent, Phosphate buffer, Distilled water

4. Teaching Staff:

Principal/ Professor & HOD,

- MS/DNB (Gen Surgery) or MD/DNB(Anaesthesia) with 5 years teaching experience

Associate Professor:

a} MS/DNB (Gen. Surgery) or MD/DNB(Anesthesia) with 2 years teaching experience
MD (Microbiology/Biochemistry/Pathology/Physiology/Pathology) with 2 years teaching experience
M.Sc. Medical (Anatomy Physiology, Biochemistry, Microbiology} with 6 years teaching experience
M.Sc. Ph.d - minimum 3 year
M.Sc (2 years course) (Clinical Biochemistry, Clinical Microbiology & Immunology, Hematology & Blood Banking) – minimum 07 years teaching experience

Assistant Professor:

MS/DNB (Gen Surgery) or MD/DNB(Anaesthesia)–Fresh candidate
M.Sc. Medical (03yearscourse)(Anatomy, Physiology, Biochemistry, Microbiology) with3 years teaching experience
M.Sc. MLT(02 years course) (Clinical Biochemistry, Clinical Microbiology & Immunology, Hematology & Blood Banking) - minimum4 years teaching experience

MD (Biochemistry, Microbiology, Pathology}Fresh candidate

Lecturer:

M.Sc. Medical (03 years course) (Anatomy, Physiology, Biochemistry, Microbiology)
M.Sc. MLT (02 years course) (Clinical Biochemistry, Clinical Microbiology & Immunology, Haematology & Blood Banking}

Tutor/Lab instructor:
B.Sc.AT & OT

Minimum no. of Faculty in each Department:
Anatomy: ONE
Physiology: ONE
Biochemistry: ONE
Microbiology: ONE
Pathology: ONE

ONLY for Anatomy & Physiology subjects visiting faculty services can be availed subject to the qualification criteria for respective subjects
Part time teachers' services can be availed for subsidiary subjects

Library: Standard reference books and journals should be made available in each of the subject speciality. Each subject should have 50 books each.

Minimum Standard Requirements

B.SC. RENAL DIALYSIS TECHNOLOGY

RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCE, KARNATAKA
4TH'T'Block, Jayanagar, Bangalore –560041.

MSR to be followed by AHS Institutions/LIC/Documents Scrutiny

Name of the Proposed college:.....
Courses Applied : B.Sc. Renal Dialysis Technology

Sl. No.	Particulars	Existing Guidelines as per GOK/ RGUHS	Details furnished by the College	Whether the college has fulfilled the requirement
1.	**Name of the Trust / Society**	Trust / Society should be registered		
2.	**Date of Registration**			
3.	**Minimum age of the Trust / Society**	Minimum 3 years		
4.	**Audit Statement of the Trust / Society**	Past 03 year		
5.	**Details of Principal**	1. Name: 2. Mobile No.: 3. Office no.: 4. Email:		
6.	**Clinical facilities** **a) Hospital NABH** **Accredited or Government Hospital**	➢ Own 100 bedded Hospital / Parent Hospital		
		➢ Managed and controlled by a member of the Trust		
		➢ The owner of the Hospital/lab is a member of the Trust		
		➢ Pollution control board certificate for 100 beds		

	b) OPD / IPD & Bed Strength	➢	OPD per day : Minimum 150-200/day		
		➢	IPD per day: Minimum 30-50/day		
		➢	Bed occupancy: Atleast 60-70%		
	c) Distance between Hospital & College	➢	Maximum within 20 kilometre radius in city limits		
		➢	Maximum within 30 kilometre radius in rural areas.		
7.	**Building (Own)**	➢	Owner of the building		
		➢	Details of property (Property No & Building Photos)		
		➢	Total sqft: 23,720 Sqft		
		➢	Building plan approved by the competent authority		
		➢	Up to date tax paid receipt		
		➢	RTC of land		
		➢	Any court case pending against the property		

8.	**Building (Rent / Lease)**	➢	Not allowed		
9.	**Infrastructure**				
	a) Teaching Block	➢	Minimum 23,720 sqft		
	b) Class Room	➢	3 Rooms (Each not less than 600 sqft) 1 seminar hall (not less than 800 sqft for M.Sc. programme)		
	c) Laboratories	➢	Minimum 03 (Each not less than 600 sqft) subjective to course		
	d) Library Books	➢	Minimum 50 books in each subject 2 journals (national/international for M.sc. programme)		
	e) Hostel facilities for students	➢	Separate hostel with separate wardens		
10.	**Staff details**	➢	No of Teaching Staffs		
11.	**Principal**	➢	01		
12.	**Teaching Staff**	➢	07 (including the visiting/part time faculty)		
13.	**Non Teaching staff & others**	➢	03		

14.	**Vehicle Details**	➢	Bus		
15.	**Sports & Recreation Facilities**	➢	Out door Facility & Indoor Facility		
16.	**KPME Certificate**	➢			
17.	**NABL/NABH certificate (if applicable)**	➢			
18.	**Lab Equipments**	➢	List Enclosed		
19.	**Teaching faculty/ Clinical material**	➢	Table Enclosed		

Teaching Faculty	For 10 seats intake	For 15 Seats intake	For 20 seats intake	For 40 seats Intake
DM (nephro) /M.Sc. Renal Dialysis Technology (HOD)	01	01	01	01
Associate Prof DM (Nephro)/ M.Sc. Renal Dialysis Technology	-	01	01	02
Lecturer/Assistant Prof/Associate Prof-Anatomy	01	01	01	01 (Fulltime)
Lecturer/Assistant Prof/Associate Prof-Physiology	01	01	01	01 (Fulltime)
Lecturer/Assistant Prof/Associate Prof-Biochemistry	01	01	01	01
Lecturer/Assistant Prof/Associate Prof-Microbiology	01	01	01	01
Lecturer/Assistant Prof/Associate Prof-Pathology	01	01	01	01
Tutor (B.Sc. Renal Dialysis tech)	01	01	02	04
Clinical Workload & Infrastructure				
Haemo dialysis Unit	10	15	20	30
CRRT machine/Online HDF Machine	01	01	01	02
Dialyser Re processer (If applicable)	01	01	01	01
Paediatrics dialysis facility	01	01	01	01
Dialysis procedures/day	20-25	25-30	30-40	40-45

Functioning Equipment:

a. Hemo Dialysis Units-10numbers (For 40 intake 30 Numbers)
b. CRRT machine / Online HDF machine-1 number (For 40 intake 2 CRRT machine)
c. Dialyser Reprocessor-1 Numbers (if hospital follows re use program)
d. Water treatment plant as per requirements(which includes and filter, ACF, of tener,DM or RO)

Apart from the above mentioned equipment's the Hospital should have the following facilities:

- Total isolation for HbsAg and optional dedicated machines for HCV
- The Hospital should follow standard infection protocol.
- Reprocessing area for general and isolation patients to process Dialyser and blood tubings.
- Procedure room to perform Catheterization etc.
- The hospital should have provision for chronic and maintenance Haemo dialysis and chronic and acute peritonealdialysis.
- CRRTs should be available.
- Paediatric dialysis facility should be available.
- HICC dept. should be Functioning

The following departments should be functioning in the hospital namely,
Intensive Care Unit,
Pathology,
Hematology,
Microbiology,
Biochemistry and Radiology and HICC dept.

Minimum Standard Requirements

BSC. EMERGENCY AND TRAUMA CARE TECHNOLOGY

RAJIVGANDHIUNIVERSITYOF HEALTHSCIENCE,KARNATAKA

4TH'T' Block,Jayanagar,Bangalore– 560041.

MSR to be followed by AHS Institutions/LIC/Documents Scrutiny

Name of the Proposed college:.....

Courses Applied….

….

Sl. No.	Particulars	Existing Guidelines as per GOK/ RGUHS		Details furnished by the College	Whether the college has fulfilled requirement
1.	**Name of the Trust/ Society**	Trust/Society should be registered			
2.	**Date of Registration**				
3.	**Minimum age of the Trust/Society**	Minimum 3 years			
4.	**Audit Statement of the Trust/Society**	Past03year			
5.	**Clinical facilities** **a) Hospital/Lab Should be accredited by NABL/NABH or Government hospital/Lab**	➢	Shouldowna100beddedhospital		
		➢	Managed and controlled by a member of the Trust		
		➢	The owner of the Hospital/Lab is a Member of the Trust		
		➢	Pollution control board certificate for 100 bedded		
	b)Samples/cases per *	➢	150-200 cases per day		

	College	➢	Minimum 30 kilo metre radius in rural areas.		
6.	**Building (Own)**	➢	Owner of the building		
		➢	Details of property (Property No & Building Photos)		
		➢	Total sq ft 23,720 Sq. ft		
		➢	Building plan approved by the competent authority		
		➢	Up to date tax paid receipt		
		➢	RTC of land		
		➢	Any court case pending against the property		
7.	**Building (Rent / Lease)**	➢	Not allowed		
8.	**Infrastructure**				
	a) Teaching Block	➢	Minimum 23,720 sq. ft		
	b) Class Room	➢	3 Rooms (Each not less than 600 Sq. ft) 1 seminar hall (not less than 800 sq. ft for BSc. and MSc. programme)		
	c) Laboratories	➢	Minimum 03 (Each not less than 800 sq. ft) subjective to course		
	d) Library Books	➢	50 books in each subject 2 journals (National/international for MSc programme)		
	e) Hostel facilities for students	➢	Separate Hostel for boys and girls with separate wardens		

9.	**Staff details**	➢	No of Core Sp. Teaching Staffs	P		AP		Asst.P		L		D		LT		Total			
10.	**Principal**	➢	01																
11.	**Teaching staff**	➢	07(including the visiting/part time faculty)																
12.	**Non-Teaching staff & others**	➢	03																
13.	**Vehicle Details**	➢	Bus																
14.	**Sports & Recreation Facilities**	➢	Outdoor Facility & Indoor Facility																
15.	**KPME Certificate**	➢																	
16.	**NABL/NABH certificate**	➢																	
17.	**Lab Equipments**	➢	List enclosed																
18.	**Teaching faculty/Clinical material ***	➢	Table enclosed																
19.	Opinion of the of the Scrutiny Committee for LIC inspection	➢																	

1.Minimum faculty requirement for seats sanctioned.

	FOR 10 SEATS INTAKE	FOR 15 SEATS INTAKE	FOR 20 SEATS INTAKE	FOR 40 SEATS INTAKE
Professor in Emergency Medicine/Anesthesia/General Medicine/General Surgery/Orthopedics **(HOD)**	0 1	01	01	1+1 = 2 1. Professor & HOD 2. Professor
Associate professor- Emergency Medicine/Anaesthesia/General Medicine/General Surgery/Orthopaedics	0 1	01	01	2 Associate Professor
Assistant Professor- Emergency Medicine / Anaesthesia/General Medicine/General Surgery/Orthopaedics	0 1	01	02	4 Assistant Professor

Change can be done for 40 intake

Minimum Standard Requirement for AHS UG Course

Lecturer/Asst. Prof/Associate Prof-Anatomy	0 1	01	01	
Lecturer/Asst. Prof/Associate Prof-Physiology	0 1	01	01	
Lecturer/Asst. Prof/Associate Prof-Biochemistry	0 1	01	01	
Lecturer/Asst. Prof/Associate Prof-Microbiology	0 1	01	01	
Lecturer/Asst. Prof/Associate Prof-Pathology	0 1	01	01	
Lecturer/Asst. Prof/Associate Prof-Pharmacology	0 1	01	01	
Tutor – Emergency Medicine	0 1	02	03	5 with B. Sc. Qualification (ETC)

PROPOSED FOR 40 INTAKE

Each department requirement 2 staff

1 Associate Professor
(in each Department)

ADDITIONAL in each Dept.
1 Lecturer with Qualification
M. Sc. Fresher's
OR
Assistant Professor with M. Sc.
With 3 years of Teaching Experience

2. Minimum eligibility requirements for Candidates

A candidate seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences course from SI. No. 1 to 14 shall have studied English as one of the principal subject during the tenure of the course and for those seeking admission to the Bachelor of Science Degree Courses in the Allied Health Sciences courses mentioned above except for B.Sc. Imaging Technology and B.Sc. Radiotherapy Technology shall have passed:

1. Two year Pre-University examination or equivalent as recognized by Rajiv Gandhi University of Health Sciences with, Physics, Chemistry and Biology as subjects of study.

OR

2. Pre-Degree course from a recognized University considered as equivalent by RGUHS, (Two years after ten years of schooling} with Physics, Chemistry and Biology as subjects of study.

OR

3. Any equivalent examination recognized by the Rajiv Gandhi University of Health Sciences, Bangalore for the above purpose with Physics, Chemistry and Biology as subjects of study.

OR

1. The vocational higher secondary education course conducted by Vocational Higher Secondary Education of any other State Government with five subjects including Physics, Chemistry, Biology and English in addition to Vocational subjects conducted is considered equivalent to plus TWO examinations of Government of Karnataka Pre University Course.
2. Candidates with two years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in SI. No. 1 to 14 shall have passed Diploma [10+2] with Physics, Chemistry and Biology, as subjects or candidates with 3 years diploma from a recognized Government Board in a subject for which the candidate desires to enroll, in the respective Allied Health Sciences course mentioned in

SI. No. 1 to 14 should have studied Physics, Biology and Chemistry as subjects during the tenure of the course.

3. Lateral entry to second year for allied health science courses for candidates who have passed diploma program from the Government Boards and recognized by RGUHS, fulfilling the conditions specified above under sl. No. 5 and these students are eligible to take admission on lateral entry system only in the same subject studied at diploma level from the academic year 2008-09 vide RGUHS Notification no. AUTH/AHS/317/2008-09 dated 01.08.2008.

4. In case of admission to B.Sc. Imaging Technology Or B.Sc. Radiotherapy Technology the candidate should have passed Pre Universiy or equivalent examination with Physics, Chemistry, Biology and Mathematics, as subjects of study.

Note

a. The Candidate shall have passed individually in each of the principal subjects

b. Candidates who have completed diploma or vocational course through correspondenceshall not be eligible for any of the courses mentioned above

PROPOSED FOR 40 INTAKE

3. Infrastructure:

1. Emergency Department with at least 20 beds } **Required with 40 Beds**
2. Three Class rooms each with a capacity for 20 students.(each not less than 600 sq. R. each)
3. Lab equipment' s for Basic Medical Sciences as per the criteria mentioned in Basic Medical Sciences requirements.
4. Board (Black or White) - Mandatory

   Multimedia / Computer and its accessories / LCD Projector- Mandatory in each classroom. One auditorium with a seating capacity if atleast 50 .

4. Laboratory requirements for teaching basic medical sciences

Basic Sciences.

Subject	Laboratory requirements
Anatomy	Specimens models, charts , dissected body parts, slides as per syllabus

Physiology	One microscope/student, one stethoscope /student, demonstration equipment for complete blood count, blood grouping and matching kits, BP apparatus one per student, staining apparatus with few common stains, spirometer for demonstration
Biochemistry	Chemical balance/single pan balance, titration apparatus glasswares, calorimeter, ph meter, spectrophotometer, Basic kits for determining urine sugars/ ketone bodies, proteins
Microbiology	Microscope, hot air oven, autoclave, incubator,electronic analytical balance, water bath, vortex mixer, laminar air flow chamber, glass wares, refrigerator, felix & drayers tube, bunsen burner, culture media, centrifuge, inoculation loop,latex agglutination tiles,vdrl rotator,Mcintosh filder anerobic jar, micro titre plate, inspissator
Pathology	Haemocytometer-rbc& wbc count ,haemoglobinometer, wintrobes tube, western gren tube , lancet, capillary tube, whatsman no 1 filter paper, centrifuge, microscope, glass slide, text tubes, blood group regent,dpx,coplin jar, h&E stain, Leishman stain, cresyl blue stain , pasteur pipette, special stains, diluting fluid-rbc,wbc,plt, pep stain, coombs regent, phosphate buffer, distilled tube.

5. Laboratory / Equipment' s requirements for teaching core speciality courses (Emergency & Trauma Care Technology)

- Crashcart with all emergency medications
- Laryngoscope and Blades (Macintosh, mccoy, millers blades) – Adult and Paediatric
- Ambu bags and masks – adult and paediatric
- Video laryngoscope
- Defibrillator
- Styllets
- Bougie
- Bains circuit
- Stethoscope
- BP Apparatus
- Monitors – Wall mounted and portable
- Ventilators
- Portable Ventilators
- USG machine
- ECG Machine
- ECHO Machine
- ABG Machine
- GRBS Kits
- Splints – all sizes
- Weighing Machine
- POC – Cardiac markers
- Nebulizers – Adult and Paediatric
- Infusion Pumps and syringes
- Thermometers

- CPR Manikins – Adult, paediatric and infant
- Oropharyngeal airways – all sizes
- Endotracheal tubes – cuffed and uncuffed (all sizes)
- Suction catheters
- Feeding tubes
- CVP lines
- IV Cannulas – all sizes
- Nasogastric tubes
- Minor OT Table with all equipment
- Suturing materials
- Sterile suturing sets, catheterization sets, minor dressing sets, ICD sets
- Shifting trolleys, shifting boards
- BLS, ACLS, ATLS, PALS, NALS Charts
- All general equipment' s and Medications used in emergency department

6. Academic Staff Qualifications

PROPOSED MODIFICATION

1.PRINCIPAL/PROFESSOR OR HOD (EMERGENCY CORE SPECIALITY)	▪ MD /DNB/MS – Emergency Medicine / Anaesthesia / General Medicine /General Surgery/Orthopaedics with 10 years of teaching experience. Principal/Professor with 8 years of Teaching Experience **OR** ▪MSc in Emergency and Trauma care technology with 10 years of experience M. Sc, with Ph. D with 10 years teaching experience M. Sc. With 12 years of Teaching Experience (without Ph. D)

Minimum Standard Requirement for AHS UG Course

2.ASSOCIATE PROFESSOR (EMERGENCY CORE SPECIALITY)	▪ MD /DNB/MS – Emergency Medicine / Anaesthesia / General Medicine /General Surgery/Orthopaedics with 5 years of teaching experience. **OR** ▪MSc in Emergency and Trauma care technology with 5 years of experience	M. Sc. Qualification with 8 years' Teaching Experience
3.ASSISTANT PROFESSOR	▪ MD /DNB/MS – Emergency Medicine / Anaesthesia / General Medicine /General Surgery/Orthopaedics with 2 years of teaching experience. ▪MSc in Emergency and Trauma care technology with 2 years of experience	IfRequired, as per RGUHS/NMC Norms M. Sc. Qualification with 3 years' Teaching Experience
4.LECTURER 5. TUTOR	▪MSc in Emergency and Trauma care technology ▪BSc in Emergency and Trauma care technology	

7. Minimum no. of Faculty in each Department:

PROPOSED FOR 40 INTAKE

Anatomy : ONE

Physiology: ONE

Biochemistry: ONE

Microbiology: ONE

Pathology: ONE

Pharmacology: ONE

1 Extra staff in each department (Explained above)

Core Specialty - Emergency and trauma care technology: Refer to the above Table.

8. Library:

Standard reference books and journals should be made available in each of the subject speciality. Atleast 50 books should be available

1.Basic sciences- prescribed books.

2.Course specific books:

9. DURATION OF CLINICAL POSTINGS

A. Emergency/rapid response team/ trauma care unit for atleast 9 months

B. Adult Intensive care units for atleast 2 months

C. Neonatal and Paediatric intensive care unit for atleast 1 month

D. OBG, Anesthesia, Cardiac ICU for atleast 1month each

Minimum Standard Requirement for AHS UG Course