



# UNIVERSITY OF JAMMU

(NAAC ACCREDITED A++ GRADE UNIVERSITY)  
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

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## NOTIFICATION (25/March/Adp./94)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Competent Bodies, has been pleased to authorize the following:

- Adoption of revised syllabi & Courses of Study of Bachelor of Science in Respiratory Care Technology Course No. BRCT-202, title Section A-Applied Pathology (with 100% change) of Second year (as given in Annexure) for the examinations to be held in the year 2025, 2026 and 2027.
- Continuation of the existing Syllabi & Courses of Study of Bachelor of Science in Respiratory Care Technology of the following courses for the examinations to be held in the year as indicated below:

Programme	year	Title	Course No	Examination to be held in the year
B.Sc. Respiratory Care Technology	First	Human Anatomy	BRCT-101	2025, 2026 and 2027
		Physiology	BRCT-102	2025, 2026 and 2027
		Biochemistry	BRCT-103	2025, 2026 and 2027
		Pathology-(Clinical Pathology Hematology & Blood Banking )	BRCT-104	2025, 2026 and 2027
		Microbiology	BRCT-105	2025, 2026 and 2027
		English	BRCT-106	2025, 2026 and 2027
		Health Care	BRCT-107	2025, 2026 and 2027
	Second	Medicine relevant Respiratory Technology	BRCT-201	2025, 2026 and 2027
		Section B Applied Microbiology	BRCT-202	2025, 2026 and 2027
		Introduction to Respiratory Care Technology	BRCT-203	2025, 2026 and 2027
		Sociology	BRCT-204	2025, 2026 and 2027
		Constitution of India	BRCT-205	2025, 2026 and 2027
		Environmental Science & Health	BRCT-206	2025, 2026 and 2027
			BRCT-301	2025, 2026 and 2027
	Third	Biochemistry III	BRCT-302	2025, 2026 and 2027
		Microbiology III	BRCT-303	2025, 2026 and 2027
		Pathology III	BRCT-304	2025, 2026 and 2027
		Research & Biostatistics	BRCT-305	2025, 2026 and 2027
		Computer Application	BRCT-306	2025, 2026 and 2027
		Ethics, Database Management		

Note: The Syllabi of the courses is available on the University Website: [www.jammuuniversity.ac.in](http://www.jammuuniversity.ac.in)

*Anju Blaci*  
DEAN ACADEMIC AFFAIRS

No. F.Acd/III/25/19345-357  
Dated: 26/03/2025

Copy for information & necessary action to:-

- Principal / Dean Faculty of Medical Science.
- Sr. P.A to the Controller of Examinations.
- Dr. Rachna Sabharwal, Coordinator, B.Sc. Paramedical courses, GMC, Jammu.
- All Members of the Board of Studies in Nursing.
- Principals of all concerned Colleges.
- Joint Registrar / Deputy Registrar (Exams Prof./Eval. Prof./ Confidential / Registration)

✓ --- University Website for Uploading of the same in the University website.

*Sumit*  
20/3

*SS*  
19/3

*Rak*  
19/03/2025

## Annexure

CLASS : B.Sc Anesthesia Technology 2<sup>nd</sup> Year,  
B.Sc Cardiac Care Technology 2<sup>nd</sup> Year,  
B.Sc Respiratory Care Technology 2<sup>nd</sup> Year,  
B.Sc OTT Technology 2<sup>nd</sup> Year  
COURSE TITLE : Section A Applied Pathology  
COURSE CODE : BAT202/BCCT202/BRCT202/BOT/202

### APPLIED PATHOLOGY

#### I. CARDIOVASCULAR SYSTEM

- Atherosclerosis — Definition, risk factors, briefly Pathogenesis & morphology clinical significance and prevention.
- Hypertension — Definition, types and briefly Pathogenesis and effects of Hypertension.
- Pathophysiology of Heart failure
- Ischaemic heart diseases — Definition, Types, Briefly Pathophysiology, Pathology & complications of various types of IHD.
- Pericardial effusion — causes, effects and diagnosis.

#### II. HAEMATOLOGY

- Anaemia — Definition, morphological types and diagnosis of anemia.
- Brief concept about Haemolytic anaemia and polycythemia.
- Leukocyte disorders — Briefly leukaemia, leukocytosis, agranulocytosis etc.
- Bleeding disorders — Definition, classification, causes & effects of important types of bleeding disorders. Briefly various laboratory tests used to diagnose bleeding disorders.

#### III. RESPIRATORY SYSTEM

- Chronic obstructive airway diseases — Definition and types. Briefly causes, Pathology and complications of each type of COPD.
- Briefly concept about obstructive versus restrictive pulmonary disease.
- Pulmonary congestion and edema
- Pleural effusion — causes, effects and diagnosis.

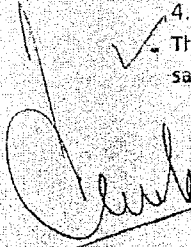
#### IV. RENAL SYSTEM

- Clinical manifestations of renal diseases. Briefly causes, mechanism, effects and laboratory diagnosis of ARF & CRS. Briefly Glomerulonephritis and Pyelonephritis.

#### PRACTICALS

1. Describe & diagnosis of the following gross specimens.
  - a. Atherosclerosis.
  - b. Myocardial infarction
  - c. Chronic glomerulonephritis.
2. Interpretation & diagnosis of the following charts.
  - a. Hematology Chart — AML, CIVIL, Hemophilia, neutrophilia, eosinophilia.
  - b. Urine chart — ARF, CRF, Acute glomerulonephritis.
3. Estimation of Hemoglobin.
4. Estimation Bleeding & Clotting time.

✓ The syllabus of Pathology subject for B.Sc MLT(2<sup>nd</sup> year) and B.Sc Renal Dialysis(2<sup>nd</sup> year) shall remain the same as earlier.

  
Head of Institution  
Govt. Medical College,  
Bikaner