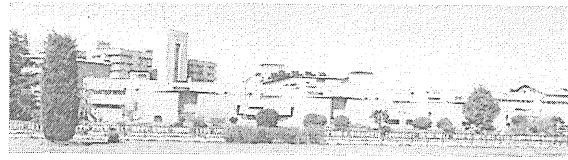


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GOVERNMENT OF JAMMU & KASHMIR
SHER-I-KASHMIR INSTITUTE OF MEDICAL SCIENCES
SOURA SRINAGAR

**Syllabus for Assistant Professor Posts of
the Department of Cardiology,
SKIMS, SOURA.**



In reference to letter No. SIMS:302/01/JKPSC/2026-1624-27 dated:26-05-2026, regarding framing of syllabus for Gazetted posts of SKIMS, Soura under direct recruitment.

The detailed syllabus prescribed for the post of Assistant Professor in the Department of Cardiology is given below.

1. Basic Cardiology

- Applied cardiac anatomy & physiology
- Cardiac embryology
- Cardiovascular pharmacology
- Cardiac pathology
- Molecular cardiology & genetics

2. Non-Invasive Cardiology

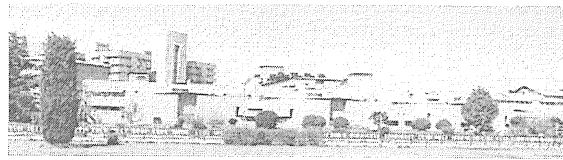
- ECG interpretation
- Holter and ambulatory BP
- Stress testing & stress echo
- Echocardiography:
 - TTE
 - TEE
- Strain imaging
- 3D/4D echo
- Cardiac CT & MRI
- Nuclear cardiology/PET viability

3. Invasive Cardiology

- Coronary angiography
- Hemodynamic assessment
- Right & left heart catheterization
- IVUS/OCT
- FFR/iFR
- PCI techniques
- Complications management

4. Coronary Artery Disease

- CCS/Chronic coronary syndrome
- ACS:
 - STEMI
 - NSTEMI
- Unstable angina



- Shock management
- Revascularization strategies

5. Heart Failure

- HFrEF/HFpEF
- Acute decompensated HF
- Cardiomyopathies
- Advanced HF therapies
- Device therapy:
 - CRT
 - ICD

6. Arrhythmias & EP

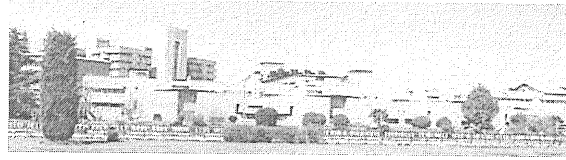
- Bradyarrhythmias
- Tachyarrhythmias
- Atrial fibrillation
- VT/VF
- Syncope
- EP studies
- Ablation
- Pacemakers & ICDs
- Sudden cardiac death

7. Valvular Heart Disease

- Rheumatic heart disease
- Degenerative valve disease
- Prosthetic valves
- Infective endocarditis
- TAVR/TAVI basics
- Mitral interventions

8. Congenital Heart Disease

- Cyanotic & acyanotic CHD
- Adult congenital heart disease
- Device closures
- Pulmonary hypertension



9. Hypertension & Preventive Cardiology

- Resistant HTN
- Dyslipidemia
- Diabetes & CVD
- Preventive cardiology
- Cardio-renal-metabolic medicine

10. Peripheral & Pulmonary Vascular Disease

- PAD
- Aortic disease
- DVT/PE
- Pulmonary hypertension

11. Research & Academics

- Clinical trials
- Statistics basics
- Evidence-based medicine
- Guidelines:
- Teaching methodology
- Thesis/publication methodology

12. Administrative/Faculty-Oriented Questions

- How to improve academics in department
- Simulation training
- Cath lab quality control
- Mortality audits
- DMteaching structure
- Handling emergencies & manpower

Dr. Imran Hafeez
Professor & Head
Department of Cardiology

**DEAN MEDICAL FACULTY
SKIMS**