

Career Paths Kashmiri Students Should Know About

Promising and often overlooked career options in science, technology, healthcare, research, design, media and more



Career / Field	Eligibility (Streams)	Degree / Course	Admission	Duration	Future / Career Options
Computer Science & IT	PCM / PCMB; (Arts with Math possible)	B.Sc. Computer Science, BCA, B.Tech (CSE)	CUET / JEE / Univ. entrance	3–4 years	Software developer, IT companies, government tech jobs, startups, higher studies (M.Sc., MCA, M.Tech), data analytics
Data Science & Analytics	PCM / PCMB (some accept PCB/Arts if Math)	B.Sc. Data Science / B.Sc. Statistics / B.Tech Data Science	CUET / Univ. entrance / JEE (For B.Tech)	3–4 years	Data analyst, data scientist, business analyst, AI & ML roles, research, higher studies (M.Sc. Data Science)
Artificial Intelligence & Machine Learning	PCM / PCMB (some accept PCB/Arts if Math)	B.Tech (AI/ML) / B.Sc. AI & ML / B.Sc. Computer Science	JEE / CUET / Univ. entrance	3–4 years	AI engineer, ML researcher, NLP specialist, robotics, automation, R&D (sector demand is growing rapidly)
Cybersecurity	PCM / PCMB (other backgrounds possible)	B.Sc. Cybersecurity / BCA (Cybersecurity) / B.Tech (Cybersecurity)	CUET / Univ. entrance / JEE (for B.Tech)	3–4 years	Cybersecurity analyst, SOC (Security Operations) specialist, penetration tester, digital forensics, security architect (high demand in government & industry)
Actuarial Science	PCM (Math compulsory) / Commerce + Math	B.Sc. Actuarial Science / B.Com/BB A + actuarial exams	Univ. admission	3–4+ years	Actuary (insurance, finance), risk analyst, data analyst, finance, consulting (newly qualified actuary salaries ~ ₹15-20 lakh)
Statistics	PCM / Commerce+ Math / PCMB	B.Sc. Statistics / B.Stat.	CUET / Univ. entrance	3–4 years	Statistician, data scientist, biostatistician, market researcher, finance, government data agencies, research

Biotechnology	PCB / PCMB	B.Sc. Biotechnology / B.Tech (Biotechnology)	CUET / Univ. entrance	3–4 years	Biotech industry (pharma, agritech), research labs, genetic engineering, diagnostics, M.Sc. Biotechnology or related, PhD (India's bioeconomy is growing fast)
Bioinformatics	PCB (with Math/CS advantageous)	B.Sc. Bioinformatics / B.Tech Bioinformatics	CUET / Univ. entrance	3–4 years	Genomics, computational biology, drug discovery, pharma R&D, bio-data science (combines biology, CS, stats)
Nuclear Medicine Technology	PCB / PCMB	B.Sc. Nuclear Medicine Tech (Allied Health)	Univ entrance or merit	3–4 years	Operate nuclear imaging equipment (PET, SPECT), diagnostic centers, oncology centers, research in medical imaging
Radiology & Medical Imaging Technology	PCB / PCMB	B.Sc. Medical Imaging Tech / B.Sc. Radiology Tech	Univ./institute entrance or merit	3–4 years	Medical imaging tech (X-ray, CT, MRI, ultrasound), hospital radiology departments, diagnostic centers
Medical Laboratory Technology	PCB / PCMB	B.Sc. Medical Lab Tech (BMLS)	Univ./institute entrance or merit	3–4 years	Lab technologist in pathology, microbiology, hematology, clinical labs, biotech labs (critical in healthcare)
Forensic Science	PCB (some accept PCM)	B.Sc. Forensic Science	CUET / Univ. entrance / merit	3–4 years	Crime laboratories (forensic analyst), toxicology, DNA profiling, cyber forensics, police science, criminology research
Geoinformatics & Remote Sensing (GIS)	PCM / PCMB	B.Sc. Geoinformatics / B.Sc. Geography (with GIS focus)	CUET / Univ. entrance	3–4 years	GIS analyst, remote sensing specialist, urban planning, environmental monitoring, disaster management, government GIS departments

Geology & Earth Sciences	PCM / PCMB	B.Sc. Geology / Earth Sciences	CUET / Univ. entrance	3–4 years	Mineral exploration, petroleum mining, groundwater/hydrogeology, environmental geoscience, geological surveys, resource management
Renewable Energy & Energy Science	PCM / PCMB	B.Sc. Energy Science / B.Tech (Renewable Energy)	CUET / Univ. entrance / JEE	3–4 years	Solar/wind energy companies, smart grid, battery tech, energy management, sustainability projects
Environmental Science	PCB / PCMB (other science streams)	B.Sc. Environmental Science	CUET / Univ. entrance	3–4 years	Environmental consultant, pollution control, climate policy, conservation, NGOs, ESG roles in industry
Economics & Quantitative Economics	Maths recommended/compulsory	B.A./B.Sc. Economics (often with Maths)	CUET / Univ. admission	3–4 years	Economist, financial analyst, policy analyst, data analyst, banking, consulting, higher studies (M.A., M.Sc., MBA)
UX & Product Design	Any (creative aptitude needed)	B.Des. (UX Design / Interaction Design / Product Design)	NID DAT / UCEED / Univ. entrance	4 years	UX/UI designer, product design, design research, design strategist in IT/product companies, startups
Animation, VFX & Game Design	Any	B.Des. / B.Sc. (Animation, VFX, Game Design)	Institute entrance (e.g. NID/NIFT/digital arts exam)	3–4 years	Animator, VFX artist, game developer, 3D modeler, multimedia specialist, entertainment industry (films, games), freelancing
Psychology	Any	B.A./B.Sc. Psychology	CUET / Univ. entrance	3–4 years	Clinical Psychology (with further degree), counselling, human resources, educational psychology, research, UX research (behavioral science roles)

Mass Media & Journalism	Any	B.A. (Journalism) / BMMMC / B.Sc. (Media Studies)	CUET / Univ. entrance / Media entrance tests	3 years	Journalist, media planner, PR, digital marketing, content creation, advertising, higher studies (M.A. in Mass Comm, MBA in Media)
Integrated Law	Any	BA LLB (Integrated)	CLAT/NLU exam / Univ. law entrance	5 years	Lawyer, corporate counsel, judiciary exams, legal services, policy, governance (law degree gives many career paths)
Fashion & Textile Design	Any (creative aptitude)	B.Des. (Fashion Design) / B.Sc. (Fashion & Textile Tech)	NIFT exam / Univ. entrance	4 years	Fashion designer, textile industry, apparel R&D, merchandising, retail management, entrepreneurship (India's apparel industry is large)
Architecture & Planning	PCM (Math compulsory)	B.Arch (Bachelor of Architecture)	NATA / JEE Paper-2	5 years	Architect, urban planner, interior architect, construction design, landscape architecture, government planning departments
Integrated Science (BS-MS)	PCM / PCMB	BS-MS (Integrated 5-year science degree) - e.g. IISER, NISER	IAT / NEST / JEE Advanced	5 years	Research scientist, PhD, specialized technical roles (IISER/NISER are premier science institutes, akin to IITs for science)

Note: Some colleges use NEET or JEE scores for admission to courses other than MBBS and B.Tech.

Disclaimer: We have made every effort to ensure that the information in this guide is accurate and up to date. However, eligibility, admission rules, course structures and entrance requirements may change between institutions and academic years. Students should always verify details with the official website or prospectus of the relevant institution before applying.

If you notice an error, outdated information or anything that needs correction, please write to us at contact@koshurdude.in or maroof@koshurdude.in