



जम्मू केंद्रीय विश्वविद्यालय
Central University of Jammu
राया-सूचानी (बागला), जिला सांबा-181143, जम्मू (जम्मू एवं कश्मीर)
Rahya-Suchani (Bagla), District: Samba – 181143, Jammu (J&K)

No: CUJ/Estab.T./ET-25/2025/302

21.02.2025

अधिसूचना /Notification No. 51/2025

Sub: Tentative interview/ written test schedule for the posts advertised under Employment Notification No. 25 dated 15.01.2025 for Dept of MCNM and Centre for Molecular Biology - Reg.
Ref: i) Employment Notification (EN) No. 25 dated 15.01.2025.
ii) Notification No. 72/2025 dated 17.02.2025

It is hereby notified for the information of all candidates of the above mentioned department/ Centre that interviews for the following posts advertised vide notification under reference will be held as per tentative interview schedule as given below:

TENTATIVE INTERVIEW SCHEDULE (Subject to availability of Eligible Candidates for interview as per final scrutiny lists & norms)		
Sl. No.	Name of the Department / Centre	Tentative Date of Interview
1.	Centre for Molecular Biology*	08.03.2025
2.	Mass Communication and New Media*	08.03.2025

Note: Final date and timing of the interviews will be uploaded on University website separately.

* As per the norms, the University will conduct written test to shortlist candidates for interviews if the number of eligible candidates exceeds 20. Marks obtained by the candidates in the written test will be used exclusively for short listing them for the interview. The final selection will be based solely on the performance of the shortlisted candidates in the interview. Written Test will be of **objective type/MCQs** and minimum qualifying marks will be 50%. There will be **negative marking of 0.33 marks** for each incorrect answer.

Schedule of Written test is as follows:

WRITTEN TEST SCHEDULE (Tentative)				
Sl. No.	Name of the Department / Centre	Tentative Date of written test	Post	Tentative Reporting Time
1.	Centre for Molecular Biology	06.03.2025	Associate Professor	09:30am
2.	Mass Communication & New Media	06.03.2025	Assistant Professor	09:30am

Syllabus for written test enclosed as **Annexure A** and **Annexure B** respectively.

Important Note:

1. Final Scrutiny lists being uploaded on University website. Eligible candidates (bearing Application form No.) will be invited for written test.
2. Candidate can download Written test Admit cards from SAMARTH portal and intimation through email this regard will also be sent to the candidates. The candidates are advised to regularly visit our website (www.cujammu.ac.in) for further updated information, if any.
3. Due to unavoidable circumstances, date of written test may be changed. Candidates may regularly check email, University website and SAMARTH portal for further updation, if any.
4. Candidate who do not receive admit cards, may request Establishment (Teaching) section through email teaching.recruitment@cujammu.ac.in at least two days prior to his/her written test for issue of duplicate /photo copy of same.
5. Candidates are required to report at least one hour prior to the time of written test.
6. The candidates are required to bring Written test admit cards **in original** along with photo identity.

Sd/-

कुलसचिव/Registrar

ईमेल:- registrar@cujammu.ac.in

दूरभाष. 91-8082197957

Introduction to Journalism and Mass Communication

- a. Concept of Journalism and mass communication, mass communication in India.
- b. History, growth and development of print and electronic media. Major landmarks in print and electronic media in Indian languages. Media's role in formulation of states of India.
- c. Media criticism and media literacy, Press Council and Press Commissions of India, status of journalism and media education in India. Media policies of the Government of India since Independence.
- d. Models and theories of mass communication, normative theories, administrative and critical traditions in communication, media and journalism studies, communication and theories of socio-cultural, educational and agricultural change. Technological determinism, critique of Marshall McLuhan's views on media and communication and Marxist approaches. Information and knowledge societies.
- e. Indian traditions and approaches to communication from the Vedic era to the 21st century. Western and Eastern philosophical, ethical and aesthetic perceptions of communication - Aristotle and Plato, Hindu, Buddhist, and Islamic traditions.
- f. Media and culture - framework for understanding culture in a globalised world. Globalisation with respect to politico-economic & socio-cultural developments in India.

Communication for Development and Social Change

- a. Concept and definition of development communication, role of media and journalism in society, characteristics of Indian society – demographic and sociological impact of communication, media and journalism. Media and specific audiences.
- b. Development and social change. Issues and post-colonial conceptions.
- c. Deconstruction of dominant paradigm of communication and development. Responses and critique of dominant models.
- d. Corporatisation of development - Corporate Social Responsibility, non-state actors in development, mass campaigns by NGOs, Government of India, international agencies and corporates. Paradigms and discourse of development communication.
- e. Emergence of global civil societies, public sphere, global communication system - nation state-universal, national communication policies.
- f. Leading influencers of social reform in India - Raja Rammohan Roy, Pandit Madanmohan Malviya, Bal Gangadhar Tilak, Mahatma Jyotiba Phule, Mahatma Gandhi, Acharya Vinoba Bhave, Dr B. R. Ambedkar, Deendayal Upadhyay, Dr Ram Manohar Lohia etc.

Reporting and Editing

- a. News-concepts, determinants (values), structure and perspectives. Reporting for print, radio, television and digital media. Types of reporting. National and international news agencies and feature syndicates, functions and role.
- b. Writing for print, electronic and digital news media. Translation and transcreation.
- c. Editing and presentation techniques for print, television and digital media.
- d. Journalism as profession, reportage of contemporary issues, ethics of reporting.
- e. Critique of western news values, effect of new technology on global communication flows.
- f. Niche Reporting.

Advertising and Marketing Communication

- a. Definition, concept, functions, types, evolution of advertising, standards and ethics in advertising. Theories and models of communication in advertising.
- b. Brand management.
- c. Advertising management - agency-role, structure and function, client-agency relationship, media planning and budgeting.
- d. Advertising and creativity, language and translation.
- e. Advertising campaign and marketing.
- f. Advertising and marketing research.

Public Relations and Corporate Communication

- a. Public Relations and Corporate Communication - definition, concept and scope.
- b. Structure of PR in State, Public, Private and non-government sectors.
- c. Tools and techniques of PR and Corporate Communication.
- d. Crisis communication and crisis communication management.
- e. Ethics of Public Relations.
- f. International Public Relations, communication audit.

Media Laws and Ethics

- a. Concept of law and ethics in India and rest of the world.
- b. The Constitution of India, historical evolution, relevance.
- c. Concept of freedom of speech and expression in Indian Constitution.
- d. Defamation, Libel, Slander-IPC 499-502, Sedition IPC 124(A), Contempt of Courts Act 1971, Official Secrets Act 1923, Press and Registration of Books Act 1867, Working Journalists and other Newspaper Employees (Conditions of Service) and Miscellaneous Provisions Act 1955, Wage Boards, Law of Obscenity (Section 292-294 of IPC); the Miller test, the Hicklin test, Indecent Representation of Women (Prohibition) Act 1986, Scheduled Castes and Tribes (Prevention of Atrocities) Act, 1989, Parliamentary Privileges. Famous cases involving journalists and news media organisations.
- e. Right to Information Act 2005, Copyright Act 1957, Intellectual Property Rights, Cable Television Network (Regulation) Act 1995, Information Technology Act (relevant) 2000 and cyber laws, Cinematograph Act 1952, Film Censorship, Press Council Act as amended from time to time, IPR, ASCI, Drugs and Magic Remedies (Objectionable Advertisements) Act, 1954, Various regulatory bodies for print, TV, Advertising, PR, and Internet.
- f. Rules, regulations and guidelines for the media as recommended by Press Council of India, Information and Broadcasting ministry and other professional organisations, adversarial role of the media, human rights and media.

Media Management and Production

- a. Definition, concept of media management. Grammar of electronic media.
- b. Communication design theories and practice.
- c. Media production techniques – print and electronic.
- d. Digital media production techniques.
- e. Economics and commerce of mass media in India.
- f. Principles and management in media industry post liberalisation.

ICT and Media

- a. ICT and media - definition, characteristics and role. Effect of computer mediated communication. Impact of ICT on mass media. Digitisation.
- b. Social networking.
- c. Economics and commerce of web enabled media.
- d. Mobile adaption and new generation telephony by media, ethics and new media.
- e. ICT in education and development in India, online media and e-governance.
- f. Animation - concepts and techniques.

Film and Visual Communication

- a. Film and television theory.
- b. Film and identity in Indian film studies, leading film directors of India before and after Independence. Indian cinema in the 21st century.
- c. Approaches to analysis of Indian television.
- d. Visual Communication. Visual analysis.
- e. Basics of film language and aesthetics, the dominant film paradigm, evolution of Indian cinema-commercial and 'non-commercial' genres, the Hindi film song, Indian aesthetics and poetics (the theory of Rasa and Dhvani).
- f. National cinema movements: Soviet Montage cinema, German Expressionistic cinema, Italian Neo-Realistic cinema, French New Wave cinema, British New Wave cinema, Indian New Wave cinema, Period cinema. Cinema in the new millennium.

Communication Research

- a. Definition, concept, constructs and approaches to communication research process.
- b. Research Designs - types, structure, components, classical, experimental and quasi experimental, variables and hypotheses; types and methods of research; basic, applied, descriptive, analytical, historical, case study, longitudinal studies.

- c. Research in journalism, Public Relations, advertising, cinema, animation and graphics, television, Internet, social media practices, magazines, children's media. Communication, journalism and media research in India.
- d. Levels of measurement: sampling-probability and non-probability, tests of validity and reliability, scaling techniques. Methods and tools of data collection-interviews, surveys, case studies, obtrusive and non-obtrusive techniques, ethnography, schedule, questionnaire, diary, and internet based tools, media specific methods such as exit polls, opinion polls, telephone, SMS surveys and voting with regard to GEC (general entertainment content).
- e. Data analysis, testing, interpretation, application of statistical tests-parametric and non-parametric, tests of variance-univariate, bivariate and multivariate, tests of significance, computer mediated research.
- f. Ethical considerations in communication, media and journalism research, writing research reports, plagiarism.

Centre for Molecular Biology

Syllabus

Cell membranes: methods to study organization of membranes, Transport across cell membranes: facilitated transport, Active transport, Na⁺-K⁺ ATPase pump.

Cytoskeleton: Composition, organization and functions of Microfilaments, microtubules, intermediate filaments and associated proteins. Basic concept of signal transduction, Key concepts in cellular signaling mechanisms. Cell cycle and its regulations. Biology of cancer cells and process of oncogenesis.

Organization of prokaryotic and eukaryotic genomes, supercoiling. Genome replication: Mechanism of replication of Prokaryotic & Eukaryotic Chromosome. Mutation: Types and molecular mechanisms of mutations, mutagens, DNA Repair.

Mendelian Laws and physical basis of inheritance, Basics of gene interaction. Microbial genetics: Methods of genetic transfers – transformation, conjugation, transduction and sex-duction, mapping genes by interrupted mating, fine structure analysis of genes

Gene expression in eukaryotes: Transcription, general and specific transcription factors, regulatory elements and mechanism of regulation, processing of transcripts. Gene expression in bacteria: Operons, transcription and its regulation.

Protein synthesis and processing; regulations of gene expression at translation level in prokaryotic and eukaryotic genes. Post translational modifications.

Recombinant DNA technology: Restriction endonucleases, DNA Modification enzymes needed in recombinant DNA technology. Molecular cloning: Cloning vectors: plasmid vectors, Phages and Phage Vectors, phagemids, cosmids, artificial chromosome vectors (YAC, BAC and MAC), Expression vectors, Animal virus derived vectors - SV40 and retroviral vectors.

Chromosomal DNA isolation (Animal Bacteria and Plant), construction of genomic DNA and cDNA libraries, screening of recombinants. Expression strategies for heterologous genes in bacteria and yeast system.

Sequencing of DNA, chemical synthesis of oligonucleotides; techniques of site directed mutagenesis, gene replacement and gene targeting. PCR and its applications.

Applications of Recombinant DNA technology: Transgenic animals and plants, production of recombinant pharmaceuticals, gene therapy, disease diagnosis. Biosafety regulation.

Detection of molecules using ELISA, RIA, western blot, immunoprecipitation, fluocytometry and immunofluorescence microscopy, detection of molecules in living cells, in situ localization by techniques such as FISH and GISH. DNA fingerprinting.

History of immunology; Nature of antigens, Antibody structure and function, Antigen - antibody interaction and applications. Major histocompatibility complex. Activation of B and T-lymphocytes. Hypersensitivity, Autoimmunity and Organ transplantation.

Amino acids and their chemical properties, Proteins: Protein structure (primary, secondary, tertiary & quaternary), Ramachandran plot, Circular Dichroism, SDS and native PAGE5. Protein folding and tools to study folding – unfolding phenomenon).

Carbohydrates; Glycolysis, Gluconeogenesis, Krebs' Cycle. Fatty acids; general properties and β -oxidation.

Microbiology; History, different branches of microbiology. Microbial world; Brief account of microorganisms, Cultivation of Bacteria; Isolation, Purification, Enrichment techniques and maintenance. Culture Collection. Role of microbes in human welfare.

Microbial fermentation and production of small and macro molecules. Application of immunological principles, vaccines, diagnostics. Tissue and cell culture methods for plants and animals. Bioremediation and phytoremediation. Biosensors.