



School of Computer & Systems Sciences

The School of Computer & Systems Sciences was established in 1975. It is one of the foremost institutions to start teaching and research programmes in computer science. The School has established itself as one of the most prestigious institutions in the area of computer education in the country. The School offers programmes of instruction and research leading to the degree of MCA, M.Tech. (Computer Science & Technology) M.Tech. (Statistical Computing), integrated M.Phil./Ph.D, and Ph.D. It attracts best of the students from all over the country. Every year around ten thousand applicants, including from the neighbouring SAARC countries appear for the entrance examinations for all the programmes of studies. The popularity of the courses offered can be judged from the successful placement of the students in the leading companies in the field of Computer Science and Information Technology. The graduates from the School have been placed in the companies such as IBM, CSC, TCS, Flextronics, Siemens, HP, Parot Systems, CSG, Accenture, Cadence, Genpact, etc. The School has also trained the students from foreign universities in the field of Computer Science.

The School continues to be at the forefront in offering interdisciplinary courses - a goal in JNU's charter. The School has the following research areas:

Big Data, Cloud Computing, Computer Graphics, Computer Networks, Computer Vision, Databases, Data Mining, Data Warehousing, Embedded Systems, Image Processing, Knowledge Engineering, Machine Learning, MEMS, Mobile Networks, Modelling and Simulation, Natural Language Processing, Network Security, Optimization Theory, Parallel and Distributed Systems, Pattern Recognition, Programming Languages, Software Engineering, VLSI, Web Mining, Wireless Networks.

PROGRAMMES OF STUDY

(i) Ph.D Programme

Admission is offered to candidates based on their performance in the written test and the viva-voce examination, as per University rules.

The candidates who join the programme are required to complete the course work within the first two semesters. Successful completion of the course work is the prerequisite for the confirmation in the Ph.D. programme.

(ii) M.Phil./Ph.D.

The candidates must appear in the written examination conducted by the University. Based on the performance in the written test, the short-listed candidates will be invited for the viva-voce examination.

Admission is offered to candidates based on their performance in the written test and the viva-voce examination, as per the University rules.

The two year component of the M.Phil. programme strengthens the foundations in various areas of computer science to prepare for the research in the current trends and challenges in computer science.

(iii) M.Tech. (Computer Science & Technology)

Admission is offered to candidates based on their performance in the written test and the interview as per the University rules.

This two year full-time programme is designed to provide fundamentals and advanced topics alike in theoretical background and to prepare the graduates for research in the current trends and growing challenges in the computing fields.

(iv) M.Tech (Statistical Computing)

This M.Tech Programme in Statistical Computing is a relatively new programme of two years' duration. The programme includes a course work in the first two semesters in preparation to the research component in the second year in the area of specialization. The two areas of specializations being, Data Science and Data Communication.

An applicant for M.Tech. in Statistical Computing should clearly mention only one specialization in the application form. The candidature of those applying for both the specializations is likely to be rejected. Therefore, the candidates are advised in their own interest not to apply for both the specializations. In the entrance examination, besides the common part, the applicants must answer questions only for the part meant for their choice of the specialization. Separate merit lists for Data Science and Data communication will be prepared. **No change-over from one specialization to another will be allowed. This programme is a terminal degree.**

The applicants for this programme must appear in the written examination conducted by the University. Based on the performance in the written examination, the short-listed candidates will be invited for the viva-voce examination.

(v) Master of Computer Application

The candidates are admitted to the MCA programme each year on the basis of their performance in the written test conducted by the University.

This three-year programme is designed to provide necessary theoretical background and practical experience in Computer Science and Applications to meet the ever growing manpower requirements in automatic computing.

MCA

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Eligibility
1	School of Computer & Systems Sciences (SC&SS)	Master of Computer Applications- MCAM (224)	Bachelor's degree in any discipline with adequate competence in Mathematics under 10+2+3 pattern of education with at least 55% marks.

M.Phil./Ph.D.

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Eligibility	Additional information
1	School of Computer & Systems Sciences (SC&SS)	Computer & System Sciences - SCSP (158)	Master's degree in Computer Science or Mathematics or Statistics or Operational Research or in any branch of Science or Bachelor's degree in any branch of Engineering or Master of Computer Applications (MCA) with at least 55% marks. Relaxation to SC/ST/OBC (Non creamy layer)/Differently abled as per the UGC Regulations 2016	P.G. holders of AYUSH related subjects are also eligible to apply.

M.Tech. (Computer Science and Technology)

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Eligibility
1	School of Computer & Systems Sciences (SC&SS)	Computer & System Sciences –MTCT (157)	Master's degree in Computer Science/ Mathematics/Statistics/ Operational Research/ any branch of Science/ any branch of Engineering/ Master of Computer Applications (MCA) with at least 55% marks. P.G. holders of AYUSH related subjects are also eligible to apply

M.Tech. (Statistical Computing)

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Eligibility	Additional information
1	School of Computer & Systems Sciences (SC&SS)	Statistical Computing (Data Science) - MTST (183) Statistical Computing (Data Communication) – MTD (189)	Master's degree in Computer Science or Mathematics or Statistics or Operational Research or in any branch of Science or Bachelor's degree in any branch of Engineering or Master of Computer Applications (MCA) with at least 55% marks.	P.G. holders of AYUSH related subjects are also eligible to apply.

Ph.D.

Sl. No.	Name of Centre	Sub. Code & Sub. Code Number	Eligibility	Additional information
1	School of Computer & Systems Sciences (SC&SS)	Computer & Systems Sciences - SCSH (890)	The candidates interested in research in Cloud Computing, Computer Graphics, Computer Network, Computer Vision, Databases, Data Mining, Data Warehousing, Embedded Systems, Image Processing, Knowledge Engineering, Machine Learning, MEMS, Mobile Networks, Modelling and Simulation, Natural Language Processing, Network Security, Optimization Theory, Parallel and Distributed Systems, Pattern Recognition, Programming Languages, Software Engineering, VLSI, Web Mining, Wireless Network will be considered for Admission to Ph.D. programme this year. only those candidates shall be considered for admission to the Ph.D programme who have a) Obtained 2 years M.Tech/M.Phil. degree with at least 55% marks of a recognized University/Institution (with Dissertation/Seminar/Viva), except those who joined M.Tech. on or before 2002-2003 and with at least 55% marks or equivalent in Master's degree; OR b) One year M.Phil. with 55% marks with additional one year research experience of a recognized University/Institute, and one publication and with at least 55% marks or equivalent in Master's degree; OR c) Master's Degree/BE/B.Tech with 55% marks or equivalent Grade 'B' in UGC 7-point scale (or an equivalent Grade in a point scale wherever Grading system is followed). Relaxation to SC/ST/OBC (Non creamy layer)/Differently abled as per the UGC Regulations 2016	P.G. holders of AYUSH related subjects are also eligible to apply.