



{Established Under U.P. Act No. 12 of 2019 & Recognized Under Section 2{f} of UGC Act, 1956}

SDGI GLOBAL UNIVERSITY

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Syllabus for Entrance Examination Of Pre Ph.D. (Computer Application)

(As per CBCS system)

W.E.F Session 2024-25





SDGI GLOBAL UNIVERSITY (SGU)

Syllabus for Entrance Examination

1. Computer Science Fundamentals:

Data Structures and Algorithms, Operating Systems, Computer Networks, Database Management Systems, Theory of Computation, Software Engineering.

2. Mathematics for Computer Science:

Discrete Mathematics, Linear Algebra, Calculus, Probability and Statistics, Mathematical Logic.

3. Programming Languages:

Concepts of Programming Languages, C/C++, Java, Python, Object-Oriented Programming, and Functional Programming.

4. Web Technologies:

HTML, CSS, JavaScript, Web Development Frameworks, Client-Server Architecture.

5. Machine Learning and Artificial Intelligence:

Basic Concepts of AI and ML, Supervised and Unsupervised Learning, Neural Networks.

6. Current Trends in Computer Applications:

Cloud Computing, Internet of Things (IoT), Cybersecurity, Blockchain Technology.

7. General Aptitude and Reasoning:

Analytical Reasoning, Quantitative Aptitude, Verbal Ability Quantitative Aptitude, Verbal Ability