

Bachelor of Computer Application (BCA)

Course Overview Institution: St. Anne's First Grade College for Women

Program Duration: 3 Years (6 Semesters)

Semester 6:

Machine Learning:

This course introduces the core concepts and algorithms of machine learning. Students will study supervised and unsupervised learning techniques, including regression, classification, clustering, and neural networks. Practical implementation using tools like Python and libraries such as scikit-learn or TensorFlow will be emphasized.

Mobile Application Development:

This course covers the design and development of mobile applications for platforms such as Android and iOS. Students will learn user interface design, mobile app architecture, data storage, and integration with APIs. The course includes hands-on projects using development tools like Android Studio or Flutter.

Software Engineering:

This course introduces the foundational principles of software engineering. Students will explore the software development life cycle (SDLC), including requirements analysis, system design, implementation, testing, deployment, and maintenance. Emphasis is placed on project management, documentation, and quality assurance.

Electronic Content Design:

This course focuses on the creation and design of digital educational and multimedia content. Students will learn principles of instructional design, multimedia tools, user interaction, and content management systems. The course prepares students to produce engaging and accessible content for e-learning platforms and digital media.