



*Ready for
Every Good Work*

SACRED HEART COLLEGE (AUTONOMOUS)

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A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

Name of the Programme: PGDCS

1.	Fundamentals of Information Security	CADC101	<ul style="list-style-type: none"> • To learn the fundamentals of Cryptography and its applications. • To understand the types of malwares. • To learn the ethical issues in information security. 	<ul style="list-style-type: none"> • Observe and Discuss the basic principles of security. • Observe and Apply the substitution and transposition methods. • Recognize and Compute symmetric ciphers • Tabulate and Compute Asymmetric ciphers • Observe , Discuss and Correlate the concept of digital signatures with security • Recognize and Express the structure of Public Key Interfaces. • Observe and Explain the basic concepts in Internet Security. • Observe and Use the Internet Security Protocols. • Recognize and Operate the User Authentication Methods. • Recognize and Assess the architecture of kerberos. 	global developmental needs
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2.	Cyber Forensics	CADC202	<ul style="list-style-type: none"> • To learn the basics of cyber forensics. • To understand the types of cyber forensic systems. 	<ul style="list-style-type: none"> • Observe and Elicit the relevance of cyber forensics. • Observe, Recognize and Use methods to perform IR. • Draft and Develop systems capable of doing analysis and validation. • Discuss and Apply evidence collection and forensic tools. • Observe and Discuss the basics of network forensics. • Compare and Correlate various aspects of cyber forensics. 	global developmental needs
3.	Application Cyber Security	CADC203	<ul style="list-style-type: none"> • To learn the concepts in application level cyber security. • To understand the concepts of ethical hacking and cyber laws. • 	<ul style="list-style-type: none"> • Identify and analyze malicious code in the system and data base • Review and recognize Operating system security vulnerabilities • Understand the ethical hacking and computer forensics • Understand and Describe the Cyber Laws and standards • Perform security audit and assess • Plan, implement and monitor security breaches 	global developmental needs

4.	Advanced Ethical Hacking	CADC205	<ul style="list-style-type: none"> • To understand the basics of Ethical hacking. • To learn the types of hacking and DDOS attacks. • 	<ul style="list-style-type: none"> • Outline and Elicit ethical considerations of hacking • Outline and Apply legal considerations of hacking • Execute, Analyze and Evaluate a penetration test using standard hacking tools in an ethical manner. • Plan and Draft a vulnerability assessment and penetration test for a network • Compare and Correlate on the strengths and vulnerabilities of the tested network • Recognize and Identify legal and ethical issues related to vulnerability and penetration testing. • 	global developmental needs