



Jan Seva Sangh Sanchlit

Shri Ram college of Commerce

(Affiliated to University of Mumbai)

NAAC ACCREDITED BY "B"

ISO 9001:2015 Certified



Bachelor of Science in Information Technology (B.SC.IT)

Programme Outcome, & Course Outcome



I/C PRINCIPAL
SHRI RAM COLLEGE OF COMMERCE
Datta Mandir Road, Bhandup (W),
Mumbai - 78.

Gen. Sec. :Dr. Aun Mule (Ph.d., D.H.E., M.com)

M.D.:Dr. Mansi Mule (Ph.D. M.B.A, M.Com, B.Ed)



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BACHELOR OF SCIENCE (COMPUTER SCIENCE) PROGRAM SPECIFIC OUTCOMES

B. Sc. computer science students at the end of three years will be able to:

1. Provide socially acceptable technical solutions to complex computer science problems with the application of modern and appropriate techniques for sustainable development relevant to professional practice.
2. Apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.
3. Comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies



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BACHELOR OF SCIENCE (COMPUTER SCIENCE) COURSE

OUTCOMES

T.Y.B.SCI (CS)

SEMESTER V		
Linux Server Administration	To demonstrate proficiency with the Linux command line interface, directory & file management techniques, file system organization, and tools commonly found on most Linux distributions. Effectively operate a Linux system inside of a network environment to integrate with existing service solutions.	<ol style="list-style-type: none">1. Learner will be able to develop Linux based systems and maintain.2. Learner will be able to install appropriate service on Linux server as per requirement.3. Learner will have proficiency in Linux server administration.
Software Testing and Quality Assurance	To provide learner with knowledge in Software Testing techniques. To understand how testing methods can be used as an effective tools in providing quality assurance concerning for software. To provide skills to design test case plan for testing software	<ol style="list-style-type: none">1. Understand various software testing methods and strategies.2. Understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software.3. Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance



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Information and Network Security	To provide students with knowledge of basic concepts of computer security including network security and cryptography	<ol style="list-style-type: none">1. Understand the principles and practices of cryptographic techniques.2. Understand a variety of generic security threats and vulnerabilities, and identify
		<p>& analyse particular security problems for a given application.</p> <ol style="list-style-type: none">3. Understand various protocols for network security to protect against the threats in a network
Web Services	To understand the details of web services technologies like SOAP, WSDL, and UDDI. To learn how to implement and deploy web service client and server. To understand the design principles and application of SOAP and REST based web services (JAX-WS and JAX-RS). To understand WCF service. To design secure web services and QoS of Web Services	<ol style="list-style-type: none">1. Emphasis on SOAP based web services and associated standards such as WSDL.2. Design SOAP based / RESTful / WCF services Deal with Security and QoS issues of Web Services



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Game Programming	To understand computer Graphics programming using Directx or Opengl. Along with the VR and AR they should also aware of GPU, newer technologies and programming using most important API for windows	Learner should study Graphics and gaming concepts with present working style of developers where everything remains on internet and they need to review it, understand it, be a part of community and learn.
Project Implementation	To provide hands-on experience in making Live project.	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.
SEMESTER VI		
Cloud Computing	To provide learners with the comprehensive and in-depth knowledge of Cloud Computing concepts, technologies, architecture, implantations and applications. To expose the learners to frontier areas of Cloud Computing, while providing sufficient foundations to enable further study and research.	After successfully completion of this course, learner should be able to articulate the main concepts, key technologies, strengths, and limitations of cloud computing and the possible applications for state- of-the-art cloud computing using open source technology. Learner should be able to identify the architecture and infrastructure of cloud computing, including SaaS, PaaS, IaaS, public cloud, private cloud, hybrid cloud, etc. They should explain the core issues of cloud computing such as security, privacy, and interoperability



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Cyber Forensics	To understand the procedures for identification, preservation, and extraction of electronic evidence, auditing and investigation of network and host system intrusions, analysis and documentation of information gathered	The student will be able to plan and prepare for all stages of an investigation - detection, initial response and management interaction, investigate various media to collect evidence, report them in a way that would be acceptable in the court of law.
Information Retrieval	To provide an overview of the important issues in classical and web information retrieval. The focus is to give an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents and of methods for evaluating systems.	After completion of this course, learner should get an understanding of the field of information retrieval and its relationship to search engines. It will give the learner an understanding to apply information retrieval models.
Data Science	To Understand basic data science concepts. Learning to detect and diagnose common data	After completion of this course, the students should be able to understand & comprehend the
	issues, such as missing values, special values, outliers, inconsistencies, and localization. Making aware of how to address advanced statistical situations, Modelling and Machine Learning.	problem; and should be able to define suitable statistical method to be adopted.



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Ethical Hacking	To understand the ethics, legality, methodologies and techniques of hacking.	Learner will know to identify security vulnerabilities and weaknesses in the target applications. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines
Project Implementation	To provide hands-on experience in making Live project.	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied.



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