SUBBALAKSHMI LAKSHMIPATHY COLLEGE OF SCIENCE

(An Autonomous Institution,

Affiliated to Madurai Kamaraj University &

Re-Accredited with B Grade by NAAC)

T.V.R. NAGAR, ARUPPUKOTTAI ROAD, MADURAI-22

Program Outcomes, Program Specific Outcomes & Course Outcomes

B.Sc Networking

(To be followed for the batch 2018 – 2021

from Semester I to VI from the academic Year 2018 -19)

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B.Sc Networking

Program Code : NW1009

Programme Outcomes

The Programme Outcomes of the B.Sc Networking degree are:

PO No.	Programme Outcomes
1.	Equip and prepare highly qualified graduates in the filed of computer network technology through employing educational curriculum and teaching methods of modern international standards.
2.	Rely on interaction, integration and specialization in building and preparing qualified and capable professionals in the fields of networking and information technology.
3.	Encourage and support specialized scientific research and practical studies in the field of networking technologies for academic personnel and students.
4.	Creatively bond theoretical knowledge to practical application and training through the utilization of equipped modern networking labs and provide training incubators to polish the knowledge and enhance the skills of students.

Programme Specific Outcomes

The Programme Specific Outcomes of the B.Sc Networking degree are:

PO No.	Programme Outcomes
1.	Competent Network Engineer rendering expertise to the industrial and societal needs in an effective manner
2.	Sustained learner by adapting to societal change for improved career opportunities in industries, academics

	and entrepreneurial endeavors
3.	Team leader ethically committed to the profession in a multi-disciplinary environment with positive attitude towards the individual, industry and society
4.	Utilize and develop the methods and means of electronic learning, regard education technology resources, and use the latest references and equipment.

Course Outcomes

Subject Code	Subject	Course Outcomes
18BN103	Principle of Networks	This subject will enable the students to • Understand Networking devices • Describe of TCP and IP protocols • Elaborate flow control within an internetwork.
18BN104	Digital Principles and Computer Organization	• Understand logic gates and number systems • To develop the knowledge on logical circuits and combinational circuits. • To learn the various aspects of basic architecture of the computer and organization of functional

		units of a computer
18BN105	PC Assembling & Maintenance	• Understand PC working principles • Learn the basic of PC and their components • Provide knowledge of Selecting, installing and troubleshooting computer peripherals
18BN107	PC Assembling & Maintenance Lab	• Perform tasks such as installation, configuration of system software • diagnosing, preventive maintenance of PC • Learn basics of networking.
18BN203	Operating System	• Understand in general the structure of modern computers and purpose, • Learn basic knowledge about the structure, functions and key aspects of an operating system by example. • Understand and analyze theory and implementation of processes, resource control, physical and virtual memory, scheduling, I/O and files.
18BN204	Computer Networks	• Understand of the fundamental concepts of TCP/IP • Learn the OSI layer mode of the computer networking
18BN205	Progrmming in C	• Understand the basics Concepts of Programming. • Elaborate programming constructs of C language.
18BN206	Networking Lab	• Troubleshoot Router and other switching devices. • Learn to take Backup and restore the IOS and

		configuration files. • Practice security settings in the Local Area Network • Configure Network Bandwidth
18BN207	Programming in C Lab	• Create simple programs using basic constructs • Understand Branching, Conditional and Looping Statements mechanism • Develop programs using structures, unions, functions and files
18BN301	Wireless Networks	• Learn major concepts involved in wide-area networks (WANs), local area networks (LANs), Wireless LANs (WLANs) • To provide a WLAN performance evaluation experience. • To expose students to emerging technologies and their potential impact.
18BN302	Network Security	• To know the various encryption techniques. • To understand the standard algorithms used to provide confidentiality, integrity and authenticity.
18BN303	Relational Database Management System	• Understand the fundamental concepts involved in the design and implementation of a database system. • Elaborate Database architecture and data modeling • Learn transaction management and database security
18BN304	Linux Lab - I	• Acquire knowledge in Installation, Configuration and Administration in the Linux operating system. • Enable the student to work with file and

		directory commands and shell scripting • Configure network management using IP Addresses
18BN305	Database Administration Lab	• Design & manipulate the database and database objects by implementing RDBMS concepts using SQL Server. • Develop conceptual understanding of *database management* system • Understand a real world problem can be mapped to schemas • Enhance the knowledge of the processes of Database Development *and* Administration
18BN306	PC Assembling & Troubleshooting(NME)	• Perform tasks such as installation of system software • Configuration and diagnosing of PC • Basics of networking.
18BN401	Virtualization	• Implement Hyper-V Virtualization • Configure Hyper-V on a Windows Server 2008 Server • Install SCVMM and configure Security Roles • Troubleshoot SCVMM
18BN402	Network Administration	• Learn network Security design • Create strategies for planning, implementing, and maintenance. • Understand Standards, Policies and its implementations.
18BN403	Customer Relationship Management	• Understand the components of customer relations ship management and it purpose IT industry. • Learn the process of implementing and maintaining CRM system in the

		organization.
18BN404	Network security lab	• To understand fundamental issues in computer and network security. • To Understand reasons for policies, settings, and configurations practically • To develop a working knowledge of network security issues that pertain to traditional and evolving security technology architecture and security operations. • To Develop an understanding of the security architecture impact of the transition from IPv4 to IPv6
18BN405	Linux Lab-II	• Learn practically how to manage partitioning, file systems, and Swap Partition and LVM Partition • Understand File sharing using NFS and Samba Server Configuration • Manage network connection using bonding
18BN406	Sever Deployment Lab	• Install and Configure Streaming Media Services • Secure Streaming Media
18BN407	Basic of Networks	• Learn basics of Network and its design, Common Network components • Understand Physical Network topology and Internetworking models
18BN501	Sever Administration	• Learn to design an Active Directory Infrastructure in Windows Server. • Design Active Directory forests and Public Key Infrastructures.

		• Implement security, high availability, disaster recovery, and migrations on server
18BN502	Cloud Computing	• Understand infrastructure of cloud computing services like CaaS, IaaS, MaaS, PaaS, SaaS. • Learn the Evolution of Cloud Computing and web Services • Build Cloud Network with Security and Common standards of Cloud Computing.
18BN503	Advanced Networking	• Understand technologies used in the Data Center Industry. • Learn designing and implementing of mission-critical network Infrastructure. • Elaborate DC Infrastructure Management and energy efficient technologies.
18BN504	Network Processing	• Learn the concepts of installing, configuring IOS • Understand Routing, ACL and WAN switching
18BN505	Advanced Networking Administration Lab	• Learn to design an Active Directory Infrastructure in Windows Server. • Design Active Directory forests and Public Key Infrastructures. • Configure Virtual machine with Hyper-V.
18BN506	Network Processing Lab	• Learn the concepts of installing, configuring IOS • Understand Routing, ACL and WAN switching