MASTER OF SCIENCE
Computer Science Systems Network and Administration

M. Sc. - CS - SNA

CURRICULUM

for 2015 admissions onwards

GENERAL INFORMATION

Code Numbering:

Each course is assigned an 8-character Code number. The first two digits indicate the year of curriculum revision. The next three letters indicate the Department offering the course. The last three digits are unique to the course – the first digit indicates the level of the course (100, 200, 300, 400 etc.); the second digit indicates the type of the course, viz. 0, 1 and 2 indicate the core courses; 3,4,5,6 and 7 indicate the Elective courses; 8 indicates the Lab. or practical-based courses and 9 indicates Projects**.**

ABBREVIATIONS USED IN THE CURRICULUM:

Cat.	- Category
Cr	- Credits
ES	- Exam Slot
L	- Lecture
P	- Practicals
T	- Tutorial

DISCIPLINES

AVP	- Amrita Values Programmes
BUS	- Business Management
CHY	- Chemistry
CMJ	- Communication and Journalism
COM	- Commerce
CSA	- Computer Science and Applications
CSN	- Computer Systems and Network
CUL	- Cultural Education
ECO	- Economics
ELL	- English Language and Literature
ENG	- English
ENV	- Environmental Sciences
FNA	- Fine Arts
HIN	- Hindi
KAN	- Kannada
LAW	- Law
MAL	- Malayalam
MAT	- Mathematics
MCJ	- Mass Communication and Journalism
OEL	- Open Elective
PHY	- Physics
SAN	- Sanskrit
SSK	- Soft Skills
SWK	- Social Work
TAM	- Tamil

SEMESTER I

Course Code	Course Title	L-T-P	Cr	ES
15CSN501	Basic Networking Technologies	4 0 0	4	A
15CSN502	Fundamentals of Operating System	3 0 0	3	B
15CSN503	Hardware and Troubleshooting	3 0 0	3	C
15CSN504	PC Software Essentials	3 0 0	3	D
15CSN581	Networking Technologies Lab.	1 0 3	2	L1
15CSN582	Operating Systems Lab.	1 0 3	2	L2
15CSN583	PC Hardware and Software Essentials Lab.	1 0 3	2	L3
15CUL501	Cultural Education	2 0 0	P/F	F
		TOTAL	19	

SEMESTER II

Course Code	Course Title	L-T-P	Cr	ES
15CSN511	Basics of Linux Operating System	1 1 3	3	A
15CSN512	Enterprise Network Design and Implementation	3 0 3	4	B
15CSN513	Information Technology Enabled Services	3 0 0	3	C
15CSN514	Windows Server Administration	3 0 3	4	D
15SSK511	Life Skills	1 0 2	2	H
15AVP501	Amrita Values Programme	1 0 0	1	F
		TOTAL	17	

SEMESTER III

Course Code	Course Title	L-T-P	Cr	ES
15CSN601	Design and Implementation of Server Infrastructure	4 0 0	4	A
15CSN602	Network Security and Services	4 0 0	4	B
	Elective I		3	E
15CSN681	Design and Implementation of Server Infrastructure Lab.	0 0 3	1	L1
15CSN682	Network Security and Services Lab.	0 0 3	1	L2
15CSN690	Live-in-Lab.@ / Open Elective*	2 0 0	2	J
15CSN698	Mini Project		4	P1
		TOTAL	19	

SEMESTER IV

Course Code	Course Title	L-T-P	Cr	ES
15CSN611	Administration of Wireless Networks	2 0 3	3	A
15CSN612	Linux Server Administration	3 0 3	4	B
	Elective II		3	E
15CSN685	Linux Server Administration Lab.	0 0 3	1	L1
15CSN699	Project		8	P
		TOTAL	19	

Total credits for the Programme   74

ELECTIVES (any two)

Course Code	Course Title	L-T-P	Cr	ES
15CSN632	Database Server Administration	2 0 3	3	E
15CSN633	Enterprise Communication Servers	2 0 3	3	E
15CSN634	Ethical Hacking, Cyber Crimes and Cyber Forensics	3 0 0	3	E
15CSN635	Mobile Technologies	2 0 3	3	E
15CSN636	Computer Systems Security	3 0 0	3	E
15CSN637	Web Design and Administration	2 0 3	3	E
16CA425	Cloud Computing	3 0 0	3	E

*One Open Elective course is to be taken by each student, in the 3rd semester, from the list of Open electives offered by the School.

@Students undertaking and registering for a Live-in-Lab project, can be exempted from registering for the Open Elective course in the third semester.

OPEN ELECTIVES (2 0 0 2)

15OEL631	Advanced Statistical Analysis for Research
15OEL632	Basics of PC Software
15OEL633	Computer Hardware and Networking
15OEL634	Consumer Protection Act
15OEL635	Corporate Communication
15OEL636	Design Studies
15OEL637	Disaster Management
15OEL638	Essentials of Cultural Studies
15OEL639	Foundations of Mathematics
15OEL640	Foundations of Quantum Mechanics
15OEL641	Glimpses of Life through Literature
15OEL642	Information Technology in Banking
15OEL643	Introduction to Web Technologies
15OEL644	Knowledge Management
15OEL645	Marketing Research
15OEL646	Media for Social Change
15OEL647	Media Management
15OEL648	Object-Oriented Programming
15OEL649	Painting and Sculpture
15OEL650	Personal Finance
15OEL651	Principles of Advertising
15OEL652	Principles of Packaging
15OEL653	Scripting for Rural Broadcasting
15OEL654	Social Media Website Awareness
15OEL655	Theatre Studies
15OEL656	Writing for Technical Purposes
15OEL657	Yoga and Personal Development