



SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)

Sree Sainath Nagar, Tirupati

Department of Master of Computer Applications

Approved Course Structure

Program: MCA- Master of Computer Applications
Regulations: SVEC-16

S. No	Course Code	Course Title	L	T	P	Credits	Max. Marks		
							IE	EE	Total
MCA I- Semester									
Theory									
1.	16MC1HS01	Accounting and Financial Management	4	-	-	4	40	60	100
2.	16MC1BS01	Mathematical Foundations of Computer Science	4	-	-	4	40	60	100
3.	16MC10101	Computer Organization	4	-	-	4	40	60	100
4.	16MC10102	Operating Systems	4	-	-	4	40	60	100
5.	16MC10103	Programming in C	4	-	-	4	40	60	100
Practical									
6.	16MC1HS31	English Language Laboratory	-	-	3	2	50	50	100
7.	16MC10131	IT Lab	-	-	3	2	50	50	100
8.	16MC10132	Programming in C Lab	-	-	3	2	50	50	100
TOTAL			20	-	9	26	350	450	800

S. No	Course Code	Course Title	L	T	P	Credits	Max. Marks		
							IE	EE	Total
MCA II- Semester									
Theory									
1.	16MC2BS01	Probability and Statistics	4	-	-	4	40	60	100
2.	16MC20101	Database Management Systems	4	-	-	4	40	60	100
3.	16MC20102	Data Structures	4	-	-	4	40	60	100
4.	16MC20103	Object Oriented Programming through JAVA	4	-	-	4	40	60	100
5.	16MC20104	Software Engineering	4	-	-	4	40	60	100
Practical									
6.	16MC20131	Database Management Systems Lab	-	-	3	2	50	50	100
7.	16MC20132	Data Structures Through C Lab	-	-	3	2	50	50	100
8.	16MC20133	Object Oriented Programming Through JAVA Lab	-	-	3	2	50	50	100
TOTAL			20	-	9	26	350	450	800


S. No	Course Code	Course Title	L	T	P	Credits	Max. Marks		
							IE	EE	Total
MCA III- Semester									
Theory									
1.	16MC3HS01	Organizational Behavior and Human Resource Management	4	-	-	4	40	60	100
2.	16MC3BS01	Operations Research	4	-	-	4	40	60	100
3.	16MC30101	Computer Networks	4	-	-	4	40	60	100
4.	16MC30102	Data Warehousing and Data Mining	4	-	-	4	40	60	100
5.	16MC30103	Object Oriented Analysis and Design	4	-	-	4	40	60	100
Practical									
6.	16MC30131	Computer Networks Lab	-	-	3	2	50	50	100
7.	16MC30132	Data Warehousing and Data Mining Lab	-	-	3	2	50	50	100
8.	16MC30133	Object Oriented Analysis and Design Lab	-	-	3	2	50	50	100
TOTAL			20	-	9	26	350	450	800


S. No	Course Code	Course Title	L	T	P	Credits	Max. Marks		
							IE	EE	Total
MCA IV- Semester									
Theory									
1.	16MC40101	Big Data Analytics	4	-	-	4	40	60	100
2.	16MC40102	LINUX Programming	4	-	-	4	40	60	100
3.	16MC40103	Web Programming	4	-	-	4	40	60	100
Professional Elective – I									
4.	16MC40104	i. Service Oriented Architecture	4	-	-	4	40	60	100
	16MC40105	ii. Internet of Things							
	16MC40106	iii. Computer Forensics							
	16MC40107	iv. E-Commerce							
Professional Elective – II									
5.	16MC40108	i. Software Project Management	4	-	-	4	40	60	100
	16MC40109	ii. Information Retrieval Systems							
	16MC40110	iii. Wireless Networks							
	16MC40111	iv. Business Intelligence							
Practical									
6.	16MC4HS31	Soft Skills Laboratory	-	-	3	2	50	50	100
7.	16MC40131	Big Data Analytics Lab	-	-	3	2	50	50	100
8.	16MC40132	LINUX and Web Programming Lab	-	-	3	2	50	50	100
9.	16MC4MOOC	Massive Open Online Course (MOOC)	--	-	-	--	--	--	--
TOTAL			20	-	9	26	350	450	800

S. No	Course Code	Course Title	L	T	P	Credits	Max. Marks		
							IE	EE	Total
MCA V- Semester									
Theory									
1.	16MC50101	Cloud Computing	4	-	-	4	40	60	100
2.	16MC50102	Mobile Application Development	4	-	-	4	40	60	100
3.	16MC50103	Software Testing	4	-	-	4	40	60	100
Professional Elective - III									
4.	16MC50104	i. Software Quality Assurance	4	-	-	4	40	60	100
	16MC50105	ii. Semantic Web							
	16MC50106	iii. Information Security							
	16MC50107	iv. Enterprise Resource Planning							
Professional Elective - IV									
5.	16MC50108	i. Management Information Systems	4	-	-	4	40	60	100
	16MC50109	ii. Bioinformatics							
	16MC50110	iii. Ethical Hacking							
	16MC50111	iv. Multimedia and Rich Internet Application Development							
Practical									
6.	16MC50131	Cloud Computing Lab	-	-	3	2	50	50	100
7.	16MC50132	Mini Project	-	-	-	2	50	50	100
8.	16MC50133	Comprehensive Assessment	-	-	-	2	-	100	100
TOTAL			20	-	3	26	300	50	800

S. No.	Course Code	Course Title	Credits	Max. Marks		
				IE	EE	Total
VI Semester						
1.	16MC60131	Seminar	02	--	100	100
2.	16MC60132	Project Work	12	100	100	200
TOTAL			14	100	200	300

Total Credits :144
Total Marks :4300


DEAN (Academics)
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Sree Vidyanikethan Engg. College -
Sree Sainath Nagar
TIRUPATI - 517 102, A.P., India.


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Sree Sainath Nagar, A. RANGAMPET
Chittoor (Dist.) - 517 102, A.P., INDIA.