



SRI KRISHNA INSTITUTIONS

**SRI KRISHNA COLLEGE OF TECHNOLOGY
&
SRI KRISHNA COLLEGE OF ENGINEERING & TECHNOLOGY**

DEPARTMENT OF COMPUTER APPLICATIONS

**COMMON CURRICULUM
DESIGNED FOR**

REGULATION 2016

Applicable for students admitted from

2016-2019

**SRI KRISHNA INSTITUTIONS
CURRICULUM DESIGN UNDER REGULATION 2016**

SEMESTER I							
S No.	Course Code	Course	L/T/P	Contact hrs/w week	Credit	Ext/Int	Category
1	16MA101	Mathematical Foundations of Computer Science	3/2/0	5	4	60/40	PC
2	16MA102	Digital Principles and Computer Organization	4/0/0	4	4	60/40	PC
3	16MA103	Problem Solving and C Programming	4/0/0	4	4	60/40	PC
4	16MA104	System Software	3/0/0	3	3	60/40	PC
5	16MA105	Fundamentals of Web design	3/0/0	3	3	60/40	PC
6	16PH101	Communication Skills – I	2/0/2	4	3	60/40	FCG
7	16MA106	Programming in C Laboratory	0/0/3	3	2	0/100	PC LAB
8	16MA107	Office Automation Laboratory	0/0/3	3	2	0/100	PC LAB
9	16MA108	Web design Laboratory	0/0/3	3	2	0/100	PC LAB
Total				32	27	900	

SEMESTER II							
S No.	Course Code	Course	L/T/P	Contact hrs/w week	Credit	Ext/Int	Category
1	16MA201	Data Structures	4/0/0	4	4	60/40	PC
2	16MA202	Database System concepts	4/0/0	4	4	60/40	PC
3	16MA203	Object Oriented Programming in C++	3/0/0	3	3	60/40	PC
4	16MA204	Operating System concepts	4/0/0	4	4	60/40	PC
5	16MA205	Computer Graphics and Multimedia	3/0/0	3	3	60/40	PC
6	16PH102	Communication Skills – II	2/0/2	3	3	60/40	FCG
7	16MA206	Programming in C++ Laboratory	0/0/3	3	2	0/100	PC LAB
8	16MA207	Data Structures Laboratory	0/0/3	3	2	0/100	PC LAB
9	16MA208	RDBMS Laboratory	0/0/3	3	2	0/100	PC LAB
Total				30	27	900	

SEMESTER III							
S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/Int	Category
1	16MA301	Advanced Data Structures and Algorithms	4/0/0	4	4	60/40	PC
2	16MA302	Advanced Web Technology	3/0/0	3	3	60/40	PSC
	16MA303	Object Oriented Analysis and Design					
3	16MA304	Fundamentals of Java Programming	3/0/0	3	3	60/40	PC
4	16MA305	Software Engineering	3/0/0	3	3	60/40	PC
5	16MA306	Computer Communication and Networks	3/0/0	3	3	60/40	PC
6	16MA307	Java Programming Laboratory	0/0/3	3	2	0/100	PC LAB
7	16MA308	Advanced dataStructures and algorithms Laboratory	0/0/3	3	2	0/100	PC LAB
8	16MA309	Software development Laboratory	0/0/3	3	2	0/100	PC LAB
Total				25	22	800	

SEMESTER IV							
S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/Int	Category
1	16MA401	Applied Probability and Statistics	3/2/0	5	4	60/40	BS
2	16MA402	Unix Architecture and Programming	3/0/0	3	3	60/40	PC
3	16MA403	Enterprise computing	3/0/0	3	3	60/40	PC
4	16MA404	Security in Computing	3/0/0	3	3	60/40	PSC
	16MA405	Internet of Things					
5	16MAE1	Professional Elective-I	3/0/0	3	3	60/40	PE
6	16MAOE	Open Elective	3/0/0	3	3	60/40	OE
7	16MC409	Mandatory Course	-	-	-	-	MC
8	16MA406	Unix Laboratory	0/0/3	3	2	0/100	PC LAB
9	16MA407	Enterprise Computing Laboratory	0/0/3	3	2	0/100	PC LAB
10	16MA408	Quantitative Aptitude Laboratory	0/0/3	3	2	0/100	PC LAB
Total				29	25	900	

SEMESTER V							
S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/Int	Category
1	16MA501	Software Quality and Assurance	3/0/0	3	3	60/40	PC
2	16MA502	Data Mining	4/0/0	4	4	60/40	PC
3	16MAE2	Professional Elective II	3/0/0	3	3	60/40	PE
4	16MAE3	Professional Elective III	3/0/0	3	3	60/40	PE
5	16MA503	Mobile Application Development	3/0/0	3	3	60/40	PSC
	16MA504	Open Source Computing					
6	16MA505	Software Quality and testing Laboratory	0/0/3	3	2	0/100	PC LAB
7	16MA506	Data Mining Laboratory	0/0/3	3	2	0/100	PC LAB
8	16MA507	Open Source Tools Laboratory	0/0/3	3	2	0/100	PC LAB
Total				25	22	800	

SEMESTER VI							
S No.	Course Code	Course	L/T/P	Contact hrs/week	Credit	Ext/Int	Category
1	16MA601	Project Work	0/0/28	0	14	60/40	PW
Total				0	14	100	

ELECTIVE/AUDIT COURSES (3+9 Credits)

S. No	Course Code	Course Title	L/T/P	Contact Hrs/Wk	Credits	Category
OPEN ELECTIVES						
1	16MAO1	Web Graphics	3/0/0	3	3	OE
2	16MAO2	Responsive Web Design	3/0/0	3	3	OE
3	16MAO3	Graph theory	3/0/0	3	3	OE
4	16MAO4	Optimization techniques	3/0/0	3	3	OE
PROFESSIONAL ELECTIVES						
Elective Stream I- Computing Technologies						
1	16MAE41	Design Patterns	3/0/0	3	3	PE
2	16MAE42	Extreme programming	3/0/0	3	3	PE
3	16MAE43	Data Analysis Tool	3/0/0	3	3	PE
4		Special Elective *	3/0/0	3	3	PE
Elective Stream II- Networks & Cloud Computing						
1	16MAE51	Cloud Computing Technology	3/0/0	3	3	PE
2	16MAE52	Storage Systems and Management	3/0/0	3	3	PE
3	16MAE53	TCP/IP	3/0/0	3	3	PE
4		Special Elective *	3/0/0	3	3	PE
Elective Stream III- Knowledge Engineering						
1	16MAE54	Business Intelligence	3/0/0	3	3	PE
2	16MAE55	Artificial Intelligence	3/0/0	3	3	PE
3	16MAE56	Big Data Analytics	3/0/0	3	3	PE
4		Special Elective *	3/0/0	3	3	PE

***Special Elective**

Special Elective will be offered based on the current trends in the industry.
(Syllabus will be updated before offering)

MANDATORY COURSE

S. No	Name of the Course	L/T/P	Contact Hours/Wk	Credits
1.	Business English Course/ IELTS/TOEFL/GATE/GRE/Foreign Language/any international competitive examinations/MOOC Certification	-	-	-

EMPLOYABILITY ENHANCEMENT SKILLS (2 credits)

S. No	Name of the Course	L/T/P	Contact Hours/Wk	Credits
1.	Industrial Practice One 1 Credit Courses	-	-	1
2.	Publication in refereed Journals or Conferences (National/International)	-	-	1

Total Number of Credits: 139**ONE CREDIT COURSES**

S.No	Course Code	Course Title	Credits
1.	16MA701	Software Testing	1
2.	16MA702	Perl	1
3.	16MA703	Ruby on Rails	1
4.	16MA704	Tally	1
5.	16MA705	ANDROID	1
6.	16MA706	IOS	1
7.	16MA707	NS2	1
8.	16MA708	Networking	1
9.	16MA709	Virtual reality	1
10.	16MA710	Financial Management	1