



SRI KRISHNA INSTITUTIONS

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

DEPARTMENT OF COMPUTER APPLICATIONS

**COMMON CURRICULUM
DESIGNED FOR**

REGULATION 2015

Applicable for students admitted from

2015-2018

**SRI KRISHNA INSTITUTIONS
CURRICULUM DESIGN UNDER REGULATION 2015**

SEMESTER I							
S No.	Course Code	Course	L/T/P	Contact hrs/w week	Credit	Ext/Int	Category
1	15PM401	Mathematical Foundations of Computer Science	3/2/0	5	4	60/40	PC
2	15PM402	Digital Principles and Computer Organization	4/0/0	4	4	60/40	PC
3	15PM403	Problem Solving and C Programming	4/0/0	4	4	60/40	PC
4	15PM404	System Software	3/0/0	3	3	60/40	PC
5	15PM405	Fundamentals of Web design	3/0/0	3	3	60/40	PC
6	15PH101	Communication Skills – I	2/0/2	4	3	60/40	FCG
7	15PM451	Programming in C Laboratory	0/0/3	3	2	0/100	PC LAB
8	15PM452	Office Automation Laboratory	0/0/3	3	2	0/100	PC LAB
9	15PM453	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	15PM406	Data Structures	4/0/0	4	4	60/40	PC
2	15PM407	Database System concepts	4/0/0	4	4	60/40	PC
3	15PM408	Object Oriented Programming in C++	3/0/0	3	3	60/40	PC
4	15PM409	Operating System concepts	4/0/0	4	4	60/40	PC
5	15PM501	Principles of Accounting and Financial Management	3/0/0	3	3	60/40	PSC
	15PM502	Computer Graphics and Multimedia					
6	15PH102	Communication Skills – II	2/0/2	3	3	60/40	FCG
7	15PM454	Programming in C++ Laboratory	0/0/3	3	2	0/100	PC LAB
8	15PM455	Data Structures Laboratory	0/0/3	3	2	0/100	PC LAB
9	15PM456	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	15MA301	Advanced Data Structures and Algorithms	4/0/0	4	4	60/40	PC
2	15MA302	Advanced Web Technology	3/0/0	3	3	60/40	PSC
	15MA303	Object Oriented Analysis and Design					
3	15MA304	Fundamentals of Java Programming	3/0/0	3	3	60/40	PC
4	15MA305	Software Engineering	3/0/0	3	3	60/40	PC
5	15MA306	Computer Communication and Networks	3/0/0	3	3	60/40	PC
6	15MA307	Java Programming Laboratory	0/0/3	3	2	0/100	PC LAB
7	15MA308	Advanced dataStructures and algorithms Laboratory	0/0/3	3	2	0/100	PC LAB
8	15MA309	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	15MA401	Applied Probability and Statistics	3/2/0	5	4	60/40	BS
2	15MA402	Unix Architecture and Programming	3/0/0	3	3	60/40	PC
3	15MA403	Enterprise computing	3/0/0	3	3	60/40	PC
4	15MA404	Security in Computing	3/0/0	3	3	60/40	PSC
	15MA405	Internet of Things					
5	15MAE1	Professional Elective-I	3/0/0	3	3	60/40	PE
6	15MAOE	Open Elective	3/0/0	3	3	60/40	OE
7	15MC409	Mandatory Course	-	-	-	-	MC
8	15MA406	Unix Laboratory	0/0/3	3	2	0/100	PC LAB
9	15MA407	Enterprise Computing Laboratory	0/0/3	3	2	0/100	PC LAB
10	15MA408	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	15MA501	Software Quality and Assurance	3/0/0	3	3	60/40	PC
2	15MA502	Data Mining	4/0/0	4	4	60/40	PC
3	15MAE2	Professional Elective II	3/0/0	3	3	60/40	PE
4	15MAE3	Professional Elective III	3/0/0	3	3	60/40	PE
5	15MA503	Mobile Application Development	3/0/0	3	3	60/40	PSC
	15MA504	Open Source Computing					
6	15MA505	Software Quality and testing Laboratory	0/0/3	3	2	0/100	PC LAB
7	15MA506	Data Mining Laboratory	0/0/3	3	2	0/100	PC LAB
8	15MA507	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	15MA601	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	15MAO1	Web Graphics	3/0/0	3	3	OE
2	15MAO2	Responsive Web Design	3/0/0	3	3	OE
3	15MAO3	Graph theory	3/0/0	3	3	OE
4	15MAO4	Optimization techniques	3/0/0	3	3	OE
PROFESSIONAL ELECTIVES						
Elective Stream I- Computing Technologies						
1	15MAE41	Design Patterns	3/0/0	3	3	PE
2	15MAE42	Extreme programming	3/0/0	3	3	PE
3	15MAE43	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	15MAE51	Cloud Computing Technology	3/0/0	3	3	PE
2	15MAE52	Storage Systems and Management	3/0/0	3	3	PE
3	15MAE53	TCP/IP	3/0/0	3	3	PE
4		Special Elective *	3/0/0	3	3	PE
Elective Stream III- Knowledge Engineering						
1	15MAE54	Business Intelligence	3/0/0	3	3	PE
2	15MAE55	Artificial Intelligence	3/0/0	3	3	PE
3	15MAE56	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.	15MA701	Software Testing	1
2.	15MA702	Perl	1
3.	15MA703	Ruby on Rails	1
4.	15MA704	Tally	1
5.	15MA705	ANDROID	1
6.	15MA706	IOS	1
7.	15MA707	NS2	1
8.	15MA708	Networking	1
9.	15MA709	Virtual Reality	1
10.	15MA710	Financial Management	1