SRI KRISHNA ARTS AND SCIENCE COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

SCHEME OF EXAMINATION - CBCS PATTERN

PG PROGRAMME: M.Sc. SS

SCHEMA

Courses	Marks	Credits
Discipline Specific Core Courses (DSC)	4400	165
Project Work	500	35
Discipline Specific Elective Courses (DSE)	400	15
Generic Elective Courses (GEC)	700	19
Total	6000	234

Discipline Specific Core Courses: Minimum of 45 Courses.
GEC: Taught in First, Second and Third Year.

Course Code	Course Title	Ins. hrs / week	Examination				CIA	Credits
			Dur. Hrs	CIA	ES	Total Marks	System Code	
	Semester – I							
19SSI01	DSC 1: English	4	3	25	75	100	A	4
19SSI02	DSC 2: C Programming	5	3	25	75	100	F	5
19SSI03	DSC 3: Algebra for Software Systems	4	3	25	75	100	I	4
19SSI04	DSC 4: Computer System Architecture	5	3	25	75	100	H	4
19SSI05	DSC 5: Practical - Programming Lab- C	4	3	40	60	100	K	2
19SSI06	DSC 6: Self Study Paper- PC Software Lab	1	3	-	50	50	M	1
19GEP20	GEC 1: Digital Electronics	4	3	25	75	100	H	3
19GEP21	GEC 2: Digital Electronics Lab	3	3	40	60	100	L	2
	Semester – II							
19SSI07	DSC 7: Calculus and Applications	4	3	25	75	100	I	4

19SSI08	DSC 8: C++ Programming	5	3	25	75	100	F	5
19SSI09	DSC 9: Data Structures	5	3	25	75	100	C	5
19SSI10	DSC 10: Practical- C++ with Data Structures Lab	4	3	40	60	100	K	2
19GEP22	GEC 3: Embedded Systems	4	3	25	75	100	F	3
19GEP23	GEC 4: Embedded Systems Lab	3	3	40	60	100	M	2
19GEP29	GEC 5: Accounting & Financial Management	5	3	25	75	100	I	4
	Semester – III							
19SSI11	DSC 11: Numerical and Statistical Methods	4	3	25	75	100	I	4
19SSI12	DSC 12: Computer Networks	4	3	25	75	100	C	3
19SSI13	DSC 13: Java Programming	5	3	25	75	100	F	6
19SSI14	DSC 14: System Software and Operating System	4	3	25	75	100	D	3
19SSI15	DSC 15: Practical- Java Programming Lab	3	3	40	60	100	K	2
19SSI16	DSC 16: Practical-System Software Lab (C & C++)	3	3	40	60	100	M	2
19GEP24	GEC 6: Internet of Things with Arduino	4	3	25	75	100	D	3
19GEP31	GEC 7: Practical - Internet of Things with Arduino	3	3	40	60	100	M	2
	Semester – IV							
19SSI17	DSC 17: Discrete Structures	4	3	25	75	100	C	4
19SSI18	DSC 18: Advanced Java Programming	5	3	25	75	100	D	5
19SSI19	DSC 19: Database Management Systems	5	3	25	75	100	C	6

19SSI20	DSC 20: Principles of Compiler Design	5	3	25	75	100	D	5
19SSI21	DSC 21: Practical - J2EE Lab	4	3	40	60	100	M	2
19SSI22	DSC 22: Practical- Database Management Systems Lab	4	3	40	60	100	M	2
19SSI23	DSC 23: Practical- Compiler Design Lab	3	3	40	60	100	L	2
	Semester – V							
19SSI24	DSC 24: Operations Research	4	3	25	75	100	J	4
19SSI25	DSC 25: Design and Analysis of Algorithm	5	3	25	75	100	D	5
19SSI26	DSC 26: Object Oriented System Development	4	3	25	75	100	D	4
19SSI27	DSC 27: Linux Programming	4	3	25	75	100	F	4
19SSI28	DSC 28: Practical- Algorithm Lab	4	3	20	30	50	M	2
19SSI29	DSC 29: Practical- Linux Programming Lab	4	3	40	60	100	K	3
19SSI30	DSC 30: Self Study Paper : Practical-UML and CASE Tools	2	3	-	50	50	M	1
19SSI31	DSC 31: Self Study Paper - Practical-HTML and XML lab	3	3	-	50	50	M	2
	Semester – VI							
19SSI32	DSC 32: Software Project Management	4	3	25	75	100	D	4
19SSI33	DSC 33: Advanced Web Technology	6	3	25	75	100	C	5
19SSI34	DSC 34: Android Programming	5	3	25	75	100	D	5

19SSI35	DSC 35: Distributed Operating System	5	3	25	75	100	D	4
19SSI36	DSC 36: Practical - Advanced Web Technology Lab	4	3	40	60	100	M	2
19SSI37	DSC 37: Practical - Application Development Using Android	4	3	40	60	100	M	2
19SSI38	Mini Project Work and Viva Voce	2	-	40	60	100*	N	8
	Semester – VII							
19SSI39	Project Work (6 months)	-	-	80	120	200**	-	12
	Semester – VIII							
19SSI40	DSC 38: Data Mining and Warehousing	5	3	25	75	100	F	5
19SSI41	DSC 39: Python Programming	5	3	25	75	100	F	5
19SSI42	DSC 40: Mobile Technology	5	3	25	75	100	C	4
19SSI43/ 19SSI44	DSE 1/2: Option I – Machine Learning/ Computer Graphics	5	3	25	75	100	D	5
19SSI45	DSC 41: Practical - Python Programming	3	3	20	30	50	K	2
19SSI46/ 19SSI47	DSE 3/4: Option II - Practical –Machine Learning Lab /Computer Graphics Lab	4	3	40	60	100	M	2
19SSI48	DSC 42: Practical – PHP Programming	3	3	20	30	50	K	2
	Semester – IX							
19SSI48	DSC 42: Digital Image Processing	5	3	25	75	100	F	5
19SSI49	DSC 43:Crytography and Network Security	5	3	25	75	100	C	5
19SSI50	DSC 44: Cloud Computing	4	3	25	75	100	D	3

19SSI51/ 19SSI52	DSE 5/6: Option III – Deep Learning/ Animation Techniques	5	3	25	75	100	D	5
19SSI53	DSC 45: Practical – Image Processing Lab	4	3	40	60	100	K	3
19SSI54	DSC 46:Practical - Cryptography Lab	4	3	40	60	100	M	3
19SSI55/ 19SSI56	DSE 7/8: Option IV - Practical –Deep Learning Lab /Animations Lab	3	3	40	60	100	M	2
	Semester – X							
19SSI57	Project Work (6 months)	-	-	80	120	200**	-	15
	Total Marks/Credits					**6000**		**234**

S.NO	SEMESTER	TOTAL MARKS	CREDITS
1.	**I**	**750**	**25**
2.	**II**	**700**	**25**
3.	**III**	**800**	**25**
4.	**IV**	**700**	**26**
5.	**V**	**650**	**25**
6.	**VI**	**700**	**30**
7.	**VII**	**200**	**12**
8.	**VIII**	**600**	**25**
9.	**IX**	**700**	**26**
10.	**X**	**200**	**15**
	TOTAL	**6000**	**234**

Regulations:

1. **Generic Elective Course (GEC) Offered by Software Systems Department for students admitted in MSW Programme.**

Course Code	Course Title	Ins. Hrs.	CIA	ES	Total Marks	MAP Code	Credits
19GEP19	Office Automation	4	40	60	100	K	3

2. Project Work

During the sixth semester, every student should undergo a Mini Project. Report of mini project should be submitted. A guide will be allotted to each student in the department. Student can select any topic in discussion with the guide. The project report shall be subjected to internal evaluation followed by a Viva-Voce**.**

Mark Distribution: Mini Project*

FirstReview	15Marks
SecondReview	15Marks
WorkDiary	10Marks
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	40 Marks

During the seventh and tenth semester, every student shall prepare a Major Project report. A guide will be allotted to each student by the department. Student can select any topic in discussion with the guide. The project report shall be subjected to internal evaluation followed by a Viva Voce.

Mark Distribution: Major Project**

FirstReview	10Marks
SecondReview	20Marks
ThirdReview	20Marks
FourthReview	20Marks
WorkDiary	10Marks
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	80 Marks

3.1. Optional Paper: Student can opt any of the following groups**.**

Optional Group I:

OptionI: 19SSI43 Machine Learning
Option II: 19SSI46 Machine Learning Lab
Option III: 19SSI51 Deep Learning
Option IV: 19SSI55 Deep Learning Lab

Optional Group II:

Option I : 19SSI44 Computer Graphics
Option II: 19SSI47 Computer Graphics Lab
Option III: 19SSI52 Animation Techniques
Option IV: 19SSI56 Animation Techniques Lab