

7. Programme Structure- B.C.A. - Data Science
(Bachelor of Computer Applications – Data Science) - Regulation 2020

1. Professional Core Courses (C) (14 Courses)					
Course Code	Course Title	Hours/Week			C
		L	T	P	
UDS21101T	Introduction to Artificial Intelligence	4	0	0	4
UDS21102J	Introduction to Advanced Computing	4	0	4	6
UDS21201J	Introduction to Data Science	4	0	2	5
UDS21202J	Advanced Computing With Distributed Data Processing	4	0	2	5
UDS21301J	Introduction to Deep Learning	4	0	2	5
UDS21302J	Advanced Computing With Python and GCP	4	0	2	5
UDS21303J	Introduction to Natural Language Processing	4	0	2	5
UDS21401J	Deep Learning for Enterprise	4	0	2	5
UDS21402J	Introduction to Computer Vision	4	0	2	5
UDS21403J	Working with Big Data	4	0	2	5
UDS21404J	Data Science for Enterprise	4	0	2	5
UDS21501J	Intelligent Automation	4	0	4	6
UDS21502J	Real-World Computer Vision Applications	4	0	2	5
UDS21601J	Intelligent Automation for Enterprise	4	0	4	6
Total Learning Credits					72

2. Discipline Specific Elective Courses (D) (6 Courses)					
Course Code	Course Title	Hours/Week			C
		L	T	P	
UDS21D01J	Advanced Analytics and Data Visualization for Enterprise	4	0	2	5
UDS21D02J	Machine Learning for Enterprise				
UDS21D03T	Digital Transformation	4	0	0	4
UDS21D04T	Working with IIoT Data				
UDS21D05T	Technology Leadership and Innovation Management	4	0	0	4
UDS21D06T	Social Media and Text Analytics				
UDS21D07J	Internship - I	0	0	0	1
UDS21D08J	Internship - II	0	0	0	1
UDS21D09J	Project Work	0	0	12	6
Total Learning Credits					21

3. Generic Elective Courses (G) (4 Courses)					
Course Code	Course Title	Hours/Week			C
		L	T	P	
ULT20G01J	Tamil-I				
ULH20G01J	Hindi-I	2	0	2	3
ULF20G01J	French-I				
ULT20G02J	Tamil-II				
ULH20G02J	Hindi-II	2	0	2	3
ULF20G02J	French -II				
UDS21G01T	Role of Mathematics in AI	4	0	0	4
UDS21G02T	Role of Statistics in AI	4	0	0	4
Total Learning Credits					14

4. Ability Enhancement Courses (AE) (2 Courses)					
Course Code	Course Title	Hours/Week			C
		L	T	P	
ULE21AE1T	Business English	4	0	0	4
UES20AE1T	Environmental Studies	3	0	0	3
Total Learning Credits					7

6. Extension Activity (EA) (Any 1 Course - Mandatory)					
Course Code	Course Title	Hours/Week			C
		L	T	P	
UNS20201L	NSS				
UNC20201L	NCC	0	0	0	0
UNO20201L	NSO				
UYG20201L	YOGA				
Total Learning Credits					0

5. Skill Enhancement Courses (S) (5 Courses+ My India Project)					
Course Code	Course Title	Hours/Week			C
		L	T	P	
UDS21S01T	Introduction to Data Engineering	4	0	0	4
UDS21S02T	Introduction to Machine Learning	4	0	0	4
UDS21S03J	Data Engineering for Enterprise	4	0	2	5
UMI20S01L	My India Project	0	0	0	1
UCD20S01L	Soft Skills	0	0	2	1
UCD20S02L	Quantitative Aptitude and Reasoning	0	0	2	1
Total Learning Credits					16

7. Life Skill Courses (JK) (4 Courses)					
Course Code	Course Title	Hours/Week			C
		L	T	P	
UJK20201L	Communication Skills	0	0	4	2
UJK20301T	Universal Human Values	2	0	0	2
UJK20401T	Professional Skills	2	0	0	2
UJK20501T	Leadership and Management Skills	2	0	0	2
Total Learning Credits					8

Total Learning Credits : 138

As SRMIST strongly encourages the use of SWAYAM (Study Web of Active Learning by Learning by Young and Aspiring Minds) platform, the students are encouraged to choose at least one core/ elective course from SWAYAM on the recommendation of the faculty advisor and the credits will be transferred