



Loyola Academy Degree & PG College
B.Sc Computer Data Science and Data Analytics Engineering (2022-25) (Choice-Based Credit System)(Proposed)

	Sem	Course-1	Course-2	Course-3	Course-4	Course-5	Course-6	Course-7	Hou rs	Credit s	
I	I	General English-I (3) (AECC-1)	Value Education and Personality Development (2) (AECC-2)	Fundamentals of Information Technology (4+1) (SEC-1)	Differential Equations Numeric Analysis (4) (Core-1)	Descriptive Statistics and Probability (4+1) (Core-2)	Problem Solving and Programming through C (4+1) (Core-3)		29	24	AECC=2 SEC=1 CORE=3
	II	General English-II (3) (AECC-3)	Indian Heritage and Culture (2) (AECC-4)	Abstract Algebra (4) (Core-4)	Operating Systems (4) (Core-5)	Probability Distributions (4+1) (Core-6)	Data Structures through C (4+1) (Core-7)	Summer Project I (1)	29	24	AECC=2 CORE=4
II	III	Environmental Studies and Gender Sensitization (3) (AECC-5)	Generic Elective (2+1) (GE-1) (IDE)	Python Programming (4+1) (SEC-2)	Computer Organization (4) (Core-8)	Statistical Methods (4+1) (Core-9)	Database Management Systems (4+1) (Core-10)		30	25	AECC=1 GE=1 SEC=1 CORE=3
	IV	Accounting and Financial Management (3) (GE-2)	R Programming (4+1) (SEC-3)	Data Warehousing and Data Mining (4) (Core-11)	Computer Networks (4) (Core-12)	Statistical Inference (4+1) (Core-13)	Java Programming (4+1) (Core-14)	Summer Project II (1)	29	27	GE=1 SEC=1 CORE=4
III	V	Operations Research (4) (GE-3)	Data Visualization Tools (3+1) (SEC-4)	Software Engineering/ Text Data Analytics (4) (DSE-1)	Machine Learning Techniques (4+1) (Core-15)	Artificial Intelligence (4) (Core-16)	Applied Statistics (4) (Core-17)		29	25	GE=1 DSE=1 SEC=1 CORE=3
	VI	Data Security/ Cloud Computing (4) (DSE-2)	Software Testing & Quality / Marketing Data Analytics (4) (DSE-3)	Big Data Analytics (4+1) (Core-18)	MAJOR PROJECT(6)				29	19	DSE=2 CORE=1 PROJECT=1
Legend: 1. Ability Enhancement Compulsory Course (AECC) : 05 2. Generic Elective (GE) : 03 3. Skill Enhancement Course (SEC) : 04 4. Core : 18 5. Discipline-Specific Elective (DSE) : 03							Total		175	144	