ourse Code	Course Title	(L-T-P-S-C)	Prerequisite
	C.	DAECTED 4	110104
DC4.04		MESTER 1	
DS101	Mathematics for Data Science	3-1-0-0-4	
DS102	Finance and Accounting	3-0-2-0-4	
CS105	Problem Solving through Programming	3-1-2-0-5	
DS104	Data Science and Al Applications	3-0-0-4-4	
HS103	Language and Communication	2-0-2-0-3	
	Semester Credits	20	
DC10F		MESTER 2	
DS105	Probability and Statistics	3-1-0-0-4	Death of Calling Through a construction CC405
CS102	Data Structure	3-1-2-0-5	Problem Solving Through programming-CS105
EG101	Engineering101	2-0-2-4-4	
HS204	Economics	3-1-0-0-4	
HS102	Professional Communication	2-1-2-0-4	
	Semester Credits	21	
D6204		MESTER 3	
DS201	Data and Business Analytics	3-0-2-0-4	
CS201	Discrete Mathematics	3-1-0-0-4	0.11.01.71
CS207	Object Oriented Programming	3-0-2-0-4	Problem Solving Through programming-CS105
	Psychology/Sociology/LifeSkills Basket	3-0-0-0-3	2 . 2
CS202	Design & Analysis of Algorithms	3-1-2-0-5	Data Structure-CS102
HS205	Ethics	3-0-0-0-3	
	Semester Credits	23	
		MESTER 4	
MA202	Linear Algebra	3-1-0-0-4	
EC209	Introduction to Systems Thinking	3-0-2-0-4	
DS203	Operating Systems and Cloud Computing	3-1-0-0-4	Data Structure-CS102
DS204	Software Engineering and Services	3-0-2-0-4	Problem Solving Through programming-CS105
CS310	Database Management Systems	3-1-2-0-5	Data Structure-CS102
DS205	Global Business Perspectives	3-0-0-0-3	
	Semester Credits	24	
	SE	MESTER 5	
DS301	Graphs and Social Networks	3-1-0-0-4	Discrete Mathematics-CS201
DS302	Computer Communication Networks	3-1-2-0-5	Data Structure-CS102
DS303	Algorithms and Artificial Intelligence	3-1-0-0-4	
CS307	Machine Learning	3-1-0-0-4	Linear Algebra-MA202
DS304	Visualization and App Development	2-1-2-0-4	
	Semester Credits	21	
	SE	MESTER 6	
DS305	Legal Aspects of IT	3-1-0-0-4	
DS306	Financial Data Analytics	2-1-2-0-4	Discrete Mathematics-CS201
DS307	Innovation and Entrepreneurship	3-1-0-0-4	
DS308	Data Security and Privacy	3-1-0-0-4	
	Elective 1	4-0-0-0-4	
DS399	Mini Project I	0-0-0-8-2	
	Semester Credits	22	
	SE	MESTER 7	
DS401	Healthcare Data Analytics	3-1-0-0-4	Discrete Mathematics-CS201
	Elective 2	4-0-0-0-4	
	Elective 3	4-0-0-0-4	
	Elective 4	4-0-0-0-4	
DS498	Mini Project II	0-0-0-8-2	
HS101	Environmental Studies*	0-0-0-8-2	
	Semester Credits	20	
		MESTER 8	
DS499	Major Project	0-0-0-32-8	
	Semester Credits	8	
I .	Program Credits	159	

C-d-	Computer Sci		
ourse Code	Course Title	(L-T-P-S-C) EMESTER 1	Prerequisite
MA101	Calculus	1	
EG101	Engineering 101	3-1-0-0-4 2-0-2-4-4	
CS105	Problem Solving Through Programming	3-1-2-0-5	
HS204	Economics	3-1-2-0-5	
HS103	Language and Communication	2-0-2-0-3	
П3103	Semester Credits	20	
		EMESTER 2	
MA103	Mathematics for Computer Science	3-1-0-0-4	
CS102	Data Structure	3-1-2-0-5	Problem Solving Through programming-CS105
CS102	Microprocessors & Microcontrollers	3-0-2-0-4	Troblem Solving Through programming-CS105
PH105	Physics For IT	3-1-0-0-4	
HS102	Professional Communication	2-1-2-0-4	
П3102			
	Semester Credits	21 EMESTER 3	
MA201	Probability	3-1-0-0-4	
CS201	Discrete Mathematics	3-1-0-0-4	Duckland Calving Through Ducknessing CC105
CS207	Object Oriented Programming	3-0-2-0-4	Problem Solving Through Programming-CS105
CS208	Computer Architecture	3-0-2-0-4	Microprocessors and Microcontrollers-CS106
CS202	Design & Analysis of Algorithms	3-1-2-0-5	Data Structure-CS102
	Psychology/Sociology/LifeSkills Basket	3-0-0-0-3	
	Semester Credits	24	
		EMESTER 4	
MA202	Linear Algebra	3-1-0-0-4	
CS206	Theory of Computing	3-1-0-0-4	Data Structures -CS102, Discrete Mathematics CS201
CS204	Operating Systems	3-1-0-0-4	Data Structure-CS102
CS301	Software Engineering	3-1-0-0-4	Problem Solving Through programming-CS105
CS310	Database Management Systems	3-1-2-0-5	Data Structure-CS102
HS205	Ethics	3-0-0-0-3	
	Semester Credits	24	
	Si	EMESTER 5	
CS309	Statistics for Computer Science	3-1-0-0-4	
CS303	Computer Networks	3-1-2-0-5	Data Structure-CS102
CS304	Artificial Intelligence	3-1-0-0-4	
	CS Theory Basket Elective	4-0-0-0-4	
	Elective 1	4-0-0-0-4	
	Semester Credits	21	
	S	EMESTER 6	
CS307	Machine Learning	3-0-2-0-4	Linear Algebra-MA202
	Elective 2	4-0-0-0-4	
	Elective 3	4-0-0-0-4	
	Elective 4	4-0-0-0-4	
	Elective 5	4-0-0-0-4	
CS399	Mini Project I	0-0-0-8-2	
	Semester Credits	22	
	S	EMESTER 7	
	Elective 6	4-0-0-0-4	
	Elective 7	4-0-0-0-4	
	Elective 8	4-0-0-0-4	
	Elective 9	4-0-0-0-4	
CS498	Mini Project II	0-0-0-8-2	
HS101	Environmental Studies*	0-0-0-8-2	
113101	Semester Credits	20	
		EMESTER 8	
CS499		0-0-0-32-R	
CS499	Major Project Semester Credits	0-0-0-32-8 <b>8</b>	

semester maximum credit limit of 25.

	Electronics and	l Communicati	ion Engineering
Course Code	Course Title	(L-T-P-S-C)	Prerequisite
·		SEMESTER 1	
MA101	Calculus	3-1-0-0-4	
EC102	Digital Design	3-0-2-0-4	
CS103	Programming and Data Structures	3-1-2-0-5	
PH104	Physics for ECE	3-1-0-0-4	
EG102	Basic Circuit Theory	3-1-0-0-4	
	Semester Credits	SEMESTER 2	
MA102	Differential Faustians	1	
	Differential Equations	3-1-0-0-4	
EC203 EC208	Analog Electronics Introduction to Embedded Systems	3-0-2-0-4 3-0-2-0-4	Digital Design-EC102
EG101	Engineering101	2-0-2-4-4	Digital Design-EC102
HS103	Language and Communication	2-0-2-4-4	
113103	Semester Credits	19	
	Jeniester Creats	SEMESTER 3	<u> </u>
MA202	Linear Algebra	3-1-0-0-4	
EC207	Electromagnetic Theory	3-1-0-0-4	Calculus-MA101
EC206	Linear Integrated Circuits	3-0-2-0-4	
EC201	Signals and Systems	3-1-0-0-4	Differential Equations-MA102
EC202	Microprocessors and Microcontrollers	3-0-2-0-4	Programming and Data Structures-CS103,Introduction to
			embedded systems- EC208
HS203	Professional Communication	2-1-0-0-3	
	Semester Credits	SEMESTER 4	
MA203	Probability and Random Processes	3-1-0-0-4	
EC205	Control Systems	3-0-2-0-4	Differential Equations-MA102
EC310	Embedded Systems Design	3-1-0-0-4	Microprocessors and Microcontrollers-EC202
EC204	Analog and Digital Communication	3-1-2-0-5	Whereprocessors and Wherecontrollers Ee202
HS204	Economics	3-1-0-0-4	
HS205	Ethics	3-0-0-0-3	
	Semester Credits	24	
		SEMESTER 5	
EC306	Digital Signal Processing	3-0-2-0-4	Signals and Systems-EC201
EC301	Introduction to VLSI Design	3-1-0-0-4	Digital Design-EC102, Analog Electronics-EC203
	Psychology/Sociology/Life Skills Basket	3-0-0-0-3	
	Elective 1	4-0-0-0-4	
	Elective 2	4-0-0-0-4	
	Elective 3	4-0-0-0-4	
	Semester Credits	23	
		SEMESTER 6	
EC307	Wireless Communication	3-0-2-0-4	Analog and Digital Communication-EC204
	Elective 4	4-0-0-0-4	
	Elective 5	4-0-0-0-4	
	Elective 6	4-0-0-0-4	
50200	Elective 7	4-0-0-0-4	
EC399	Mini Project I	0-0-0-8-2	
	Semester Credits	SEMESTER 7	
Т	Elective 8	4-0-0-0-4	
	Elective 9	4-0-0-0-4	
	Elective 10	4-0-0-0-4	
	Elective 11	4-0-0-0-4	
EC498	Mini Project II	0-0-0-8-2	
HS101	Environmental Studies*	0-0-0-8-2	
	Semester Credits	20	
		SEMESTER 8	
EC499	Major Project	0-0-0-32-8	
	Semester Credits	8	
	Program Credits	160	
1/2 credit	online courses need to be given during any s	pecific semest	er decided by the concerned HoD without violating the

<sup>1/2</sup> credit online courses need to be given during any specific semester decided by the concerned HoD without violating the semester maximum credit limit of 25.