Department of Computer Science and Engineering

For Batch 2016 onwards

Course Category	Course No.	Course Title	Contact Hours			Credit	Prerequisites
			L	Τ	Ρ		
Science Core Courses (SC)	MA 101	Mathematics-I	3	1	0	4	None
	MA 102	Mathematics-II	3	1	0	4	None
	PH 101	Engineering Physics	3	1	0	4	None
	CH 101	Engineering Chemistry	3	1	0	4	None
	ES 101	Environmental Science	2	0	0	2	None
	PH 151	Engineering Physics Laboratory	0	0	2	1	None
	CH 151	Engineering Chemistry Laboratory	0	0	2	1	None
	MA 202	Probability & Statistics	3	0	0	3	None
	MA 204	Discrete Mathematics	3	1	0	4	None
	MA 210	Mathematics Laboratory	0	0	4	2	CS101, MA101, MA102
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Science	BT 201	Elements of Modern Biology	3	0	0	3	None
	PH 201	Physics of Materials	3	0	0	3	None
Elective	CH 201	Introduction to Material Science	3	0	0	3	None
Courses (SE)		er subject offered by Sc. departments and	-	-	-		
		commended by the Course Adviser.					
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	CE 101	Engineering Drawing	1	0	0	1	None
	EE 101	Basic Electrical Engineering	3	0	0	3	None
Engineering Sc. Core Courses (ESC)	EC 101	Basic Electronics	3	0	0	3	EE 101
	ME 101	Engineering Mechanics	3	0	0	3	None
	ME 102	Engineering Thermodynamics	2	0	0	2	None
	CS 101	Computer Programming	2	1	0	3	None
	ME 103	Workshop Practice-I	0	0	4	2	None
	EE 151	Basic Electrical Engineering Laboratory	0	0	2	1	None
	EC 151	Basic Electronics Laboratory	0	0	2	1	EE 151
	CS 151	Computer Programming Laboratory	0	0	2	1	None
	CE 151	Engineering Drawing laboratory	0	0	4	2	None
			0	0	4	2	INOIIC
Discipline Core Courses (DC)	CS 201	Digital Logic Design	3	1	0	4	EC 101
	CS 202	Data Structures	3	1	0	4	CS 101
	CS 202	Automata and Formal Languages	3	1	0	4	CS 101
	CS 204	Computer Organization & Architecture	3	1	0	4	CS 201
	CS 205	Algorithms	3	1	0	4	CS 202
	CS 205	Database Systems	3	0	0	3	CS 202
	CS 200	Data Communication	3	0	0	3	0.0 202
	CS 200 CS 251		0	0	2	ں ۱	EC 151
	CS 251 CS 252	Digital Logic Design Laboratory Data Structures Laboratory	0	0	2	1	CS 151
	CS 252 CS 254	,	0	0	-	1	CS 151 CS 251
	CS 254 CS 255	Computer Organization Laboratory	0	0	2	1	
		Algorithms Laboratory			2	1	CS 252
	CS 256	Database Systems Laboratory	0	0	2	1	CS 252
	CS 258	Data Communication Laboratory	0	0	2		00.000
	CS 302	Computer Networks	3	0	0	3	CS 208
	CS 311	Object Oriented Programming and Design	3	0	0	3	CS 202
	CS 304	Operating System	3	1	0	4	CS 202, CS 204

	CS 305	Software Engineering	3	0	0	3	CS 202
	CS 306	Compiler Design	3	0	0	3	CS 202, CS 203
	CS 352	Computer Networks Laboratory	0	0	2	1	CS 258
	CS 354	Operating System Laboratory	0	0	2	1	CS 252, CS 254
	CS 355	Software Engineering Laboratory	0	0	2	1	CS 252
	CS 356	Compiler Design Laboratory	0	0	2	1	CS 252
	CS 361	Object Oriented Programming and Design	0	0	2	1	CS 252
		Laboratory	Ŭ	Ŭ		•	00 202
	CS 207	Principles of Programming Languages	3	0	0	3	CS 101
	CS 210	Data Structure and Algorithm	3	0	0	3	CS 101
	CS 211	Object Oriented Programming	3	0	0	3	CS 101
	CS 261	Object Oriented Programming Lab	0	0	2	1	CS 151
	CS 312	Computer Graphics	3	0	0	3	CS 202
	CS 314	Testing of Digital Systems	3	1	0	4	CS 204
	CS 362	Computer Graphics Laboratory	0	0	2	1	CS 252
	CS 411	Cryptography and Network Security	3	0	0	3	CS 302, CS 304
	CS 412	Artificial Intelligence	3	0	0	3	CS 203, CS 207
Discipline	CS 413	High Performance Architectures	3	0	0	3	CS 204
Elective	CS 414	Web Technology	3	0	0	3	CS 312
Courses (DE)	CS 415	Data Mining	3	0	0	3	CS 205, CS 206
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	CS 511	Mobile Computing	3	0	0	3	CS 302
	CS 512	Image Processing	3	0	0	3	CS 202
	CS 513	Software Defined Networking	3	0	0	3	CS 302
	CS 515	Distributed Computing	3	0	0	3	CS 304
	CS 516	Data Warehousing and Data Mining	3	0	0	3	CS 205, CS 206
	CS 519	Cloud Computing	3	0	0	3	CS 302, CS 304
	CS 521	Principles of Program Analysis	3	0	0	3	MA204, CS101
	CS 522	Pattern Recognition	3	0	0	3	None
		other course of level 300 and above offered	None				
		recommended by it.	oy a		pur		
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··		Any course of appropriate level offered in the		titute	and		
Open Elective	00.040	recommended by the Course Adv		•		0	00.004
Courses	CS 313	Embedded Systems	3	0	0	3	CS 204
	CS 363	Embedded System laboratory	0	0	2	1	CS 254
	CS 401	Project-I	0	0	8	4	100 or more credits earned
Project Works	CS 402	Project-II	0	0	16	8	120 or more credits earned
	03 402		0	U	10	0	
	HS 101	English Language Skills	2	0	0	2	None
HSS Core Courses	HS 301	Foundations of Management	3	0	0	3	None
	HS 302	Accounting and Financial Methods	3	0	0	3	HS 301
	HS 401	Professional Ethics	2	0	0	2	HS 301
	HS 151	English language skills laboratory	0	0	2	1	None
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HSS Elective Courses	HS 402	Introduction to Economics	3	0	0	3	None
	HS 403	Introduction to Sociology	3	0	0	3	None
	HS 403	Introduction to Psychology	3	0	0	3	None
	HS 405	Introduction to Behavioural Sc.	3	0	0	3	None