COMPUTER SCIENCE & ENGINEERING (Dual Degree)

COURSE CURRICULUM FOR THE NEW PROGRAMME w.e.f. 2007 BATCH

Semester I

Course code	Course Name	L	T	P	C
CH 103+	Chemistry	2	1	0	6
CS 101	Computer Programming	2	0	2	6
HS 101	Economics	3	0	0	6
MA 105	Calculus	3	1	0	8
PH 103*	Electricity and Magnetism	2	1	0	6
PH 105*	Modern Physics	2	1	0	6
CH 117+	Chemistry Lab	0	0	3	3
ME 113*	Workshop Practice	0	1	3	5
ME 119*	Engineering Graphics and Drawing	1	0	3	5
PH 117+	Physics Lab	0	0	3	3
NC 101#	National Cadet Corps (NCC)	0	0	0	P/NP
NO 101#	National Sports Organization (NSO)	0	0	0	P/NP
NS 101#	National Service Scheme (NSS)	0	0	0	P/NP

* Any one of these two courses and any one of these Lab courses only for **D3 D4**
 + Only for D1 D2
 # Any one of these three P/NP courses

Semester – II

Course Code	Course Name	L	T	P	C
MA 106 And MA 108	Linear Algebra and Ordinary Differential Equations I	3	1	0	8
CH 103+	Chemistry	2	1	0	6
PH 103*	Electricity and Magnetism	3	0	0	6
PH 105*	Modern Physics	2	1	0	6
CS 152	Department Introductory Course	3	0	0	6
XX 102	Data Analysis and Interpretations	2	1	0	6
CH 117*	Chemistry Lab.	0	0	3	3
ME 113+	Workshop Practice	0	1	3	5
ME 119+	Engineering Graphics and Drawing	0	1	3	5
PH 117*	Physics Lab.	0	0	3	3
CS 154	Abstractions and Paradigms in Programming Lab	0	0	3	3
NC 102#	National Cadet Corps (NCC)	0	0	0	P/NP
NO 102#	National Sports Organization (NSO)	0	0	0	P/NP
NS 102#	National Service Scheme (NSS)	0	0	0	P/NP

* Any one of these two courses and any one of these Lab courses only for **D1 D2**
 + Only for D3 D4
 # Any one of these three P/NP courses

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Semester III						Semester –IV					
Course code	**Course Name**	**Credit Structure**				**Course Code**	**Course Name**	**Credit Structure**			
		L	**T**	**P**	**C**			**L**	**T**	**P**	**C**
ES 200 And HS 200	Environmental Studies: Science and Engg And Environmental Studies	3 3	0 0	0 0	3 3	MA 214	Numerical Analysis	3	1	0	8
EE 101	Introduction to Electrical and Electronic Circuits	3	1	0	8	CS 208	Automata Theory and Logic	3	0	0	6
CS 207	Discrete Structures	3	0	0	6	CS 218	Design and Analysis of Algorithms	3	0	0	6
CS 213	Data Structures and Algorithms	3	0	0	6	CS 210	Logic Design	3	0	0	6
IC 211	Experimentation and Measurement Lab	0	0.5	3	4	CS 296	Software Systems Lab	2	0	2	6
CS 293	Data Structures and Algorithms Lab	0	0	3	3	CS 288	Logic Design Lab	0	0	3	3
					33						**35**
COURSES FOR HONOR REQUIREMENT						COURSES FOR HONOR REQUIREMENT					
							CSE Elective	3	0	0	6

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Semester V						Semester –VI					
Course code	**Course Name**	**Credit Structure**				**Course Code**	**Course Name**	**Credit Structure**			
		L	**T**	**P**	**C**			**L**	**T**	**P**	**C**
HS 301/ HS 303/ HS 305/ HS 307	Philosophy/ Psychology/ Literature/ Sociology	3	0	0	6	CS 344	Artificial Intelligence	3	0	0	6
CS 305	Computer Architecture	3	0	0	6	CS 302	Implementation of Programming Languages	3	1	0	8
CS 347	Operating Systems	3	0	0	6	CS 348	Computer Networks	3	0	0	6
CS 317	Database and Information Systems	3	0	0	6	CS 386	Artificial Intelligence Lab	0	0	3	3
CS 387	Database and Information Systems Lab	0	0	3	3	CS 306	Implementation of Programming Languages Lab	0	0	3	3
CS 341	Computer Architecture Lab	0	0	3	3	CS 378	Computer Networks Lab	0	0	3	3
CS 377	Operating Systems Lab	0	0	3	3	CS 308	Embedded Systems Lab	1	0	2	4
					33						33
COURSES FOR HONOR REQUIREMENT						COURSES FOR HONOR REQUIREMENT					
	CSE Elective	3	0	0	6		CSE Elective	3	0	0	6

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Semester VII						Semester –VIII					
Course code	**Course Name**	**Credit Structure**				**Course Code**	**Course Name**	**Credit Structure**			
		L	**T**	**P**	**C**			**L**	**T**	**P**	**C**
	Elective 1	**3**	**0**	**0**	**6**		Elective 4	**3**	**0**	**0**	**6**
	Elective 2	**3**	**0**	**0**	**6**		Elective 5	**3**	**0**	**0**	**6**
	Elective 3	**3**	**0**	**0**	**6**		Elective 6	**3**	**0**	**0**	**6**
	Institute Elective 1	**3**	**0**	**0**	**6**		Institute Elective II	**3**	**0**	**0**	**6**
					24						**24**
COURSES FOR HONOR REQUIREMENT						COURSES FOR HONOR REQUIREMENT					
	CSE Elective	**3**	**0**	**0**	**6**		CSE Elective	**3**	**0**	**0**	**6**
	CSE Elective	**3**	**0**	**0**	**6**		CSE Elective	**3**	**0**	**0**	**6**

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Semester IX						Semester –X					
Course code	**Course Name**	**Credit Structure**				**Course Code**	**Course Name**	**Credit Structure**			
		L	**T**	**P**	**C**			**L**	**T**	**P**	**C**
CS 593	Dual Degree Project I				**36**	CS 594	Dual Degree Project – II				**36**
	PG Elective I	**3**	**0**	**0**	**6**		PG Elective III	**3**	**0**	**0**	**6**
	PG Elective II	**3**	**0**	**0**	**6**		PG Elective IV	**3**	**0**	**0**	**6**
					48						**48**
COURSES FOR HONOR REQUIREMENT						COURSES FOR HONOR REQUIREMENT					