

**COURSE CATEGORIES-COMPUTER SCIENCE AND ENGINEERING**

<b>S. No.</b>	<b>Category</b>	<b>Description</b>
1	<b>CB – Chemistry and Biology</b>	<b>Courses in Chemistry and Biology.</b>
2	<b>CE – Civil Engineering</b>	<b>Courses related to Civil Engineering</b>
3	<b>CS – Computer Science</b>	<b>Courses in Computer Science and Technology</b>
4	<b>EE – Electrical Engineering</b>	<b>Courses of Electrical Engineering</b>
6	<b>ME – Mechanical Engineering</b>	<b>Courses in Mechanical Engineering</b>
7	<b>HS – Humanities and Social Sciences</b>	<b>Courses in Language, Culture, Philosophy, etc.</b>
8	<b>SE – Society &amp; Enterprise</b>	<b>Includes projects and courses in Media, Industrial Engineering, Management, Finance, etc.</b>

R-2017

**CURRICULUM-COMPUTER SCIENCE AND ENGINEERING**

Semester 1						
	Code	Course	L	T	P	Credits
1	CS-111	Engineering Mathematics-I	3	1	0	3
2	CS-112	Physics for Computer Engineers	3	1	0	3
3	CS-113	Computer Fundamentals & Programming	3	1	0	3
4	CS-114	Computer Workshop	1	0	3	2
5	CS-115	Basic Electronics Engineering	3	1	0	3
6	CS-116	Engineering Economics and Management	3	1	0	3
7	CS-117	Physics Lab	0	0	3	1
8	CS-118	Computer Fundamentals & Programming Lab	0	0	3	1
9	CS-119	Basic Electronics Engineering Lab	0	0	3	1
10	HS 102	French Language & Culture I	0	2	0	0
		Hours =	33			20

Semester 2						
	Code	Course	L	T	P	Credits
1	CS-121	Engineering Mathematics-II	3	1	0	3
2	CS-122	Chemistry for Computer Engineers	3	1	0	3
3	CS-123	Communication Skills	3	1	0	3
4	CS-124	Basic Electrical Engineering	3	1	0	3
5	CS-125	Chemistry Lab	0	0	3	1
6	CS-126	Communication Skills Lab	0	0	3	1
7	CS-127	Engineering Graphics	1	0	3	3
8	CS-128	Media Project	1	0	3	2
9	HS 104	French Language & Culture II	0	2	0	0
		Hours =	30			19



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Semester 3						
	Code	Course	L	T	P	Credits
1	CS-210	Probability & Queuing Models	3	1	0	3
2	CS-211	Discrete Mathematics	3	1	0	3
3	CS-212	Object Oriented Paradigm	3	1	0	3
4	CS-213	Computer Graphics	3	1	0	3
5	CS-214	Microprocessor and Interfacing	3	1	0	3
6	CS-215	Digital Electronics & Logic Design	3	1	0	3
7	CS-216	Object Oriented Paradigm Lab	0	0	3	1
8	CS-217	Computer Graphics Lab	0	0	3	1
9	CS-218	Microprocessor and Interfacing Lab	0	0	3	1
10	CS-219	Digital Electronics & Logic Design Lab	0	0	3	1
11	HS 206	French Language & Culture III	0	2	0	0
Hours =36						22

Semester 4						
	Code	Course	L	T	P	Credits
1	CS-220	Computer Organization	3	1	0	3
2	CS-221	Operating Systems	3	1	0	3
3	CS-222	Data Structures	3	1	0	3
4	CS-223	System Software	3	1	0	3
5	CS-224	Theory of Computation	3	1	0	3
6	CS-225	Basic Environmental Science and Engineering	3	1	0	3
7	CS-226	Computer Organization Lab	0	0	3	1
8	CS-227	Operating System Lab	0	0	3	1
9	CS-228	Data Structure Lab	0	0	3	2
10	CS-229	Design Thinking	1	0	3	2
11	HS 208	French Language & Culture IV	0	2	0	0
Hours =37						24



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Semester 5						
	Code	Course	L	T	P	Credits
1	MA 305	Mathematics V	3	2	0	4
2	CE 301	Earth and Environmental Sciences	2	0	0	2
3	ME 305	Multiphysics	3	2	0	4
4	CS 307	Computer Architecture and Design	2	2	0	3
5	CS 309	Programmable Devices and Microprocessors	2	0	2	3
6	CS 311	Operating Systems	3	0	2	4
7	SE 306	Year-3 Project Phase I	0	2	2	2
8	HS 310	French Language & Culture V	0	2	0	0
						22

Semester 6						
	Code	Course	L	T	P	Credits
1	MA 306	Mathematics VI	2	0	0	2
2	CS 306	Computer Communication Networks	2	0	2	3
3	CS 308	Database Management Systems	3	0	2	4
4	CS 310	Web Programming	2	0	2	3
5	E1	Elective	X	X	X	3
6	SE 308	Year-3 Project Phase II	0	3	3	3
7	SE 309	Corporate Management and Finance	3	0	0	3
8	HS 312	French Language & Culture VI	0	2	0	0
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Semester 7						
	Code	Course	L	T	P	Credits
1	CS 413	Software Engineering	3	0	2	4
2	CS 415	Programming Languages and Compiler Construction	3	2	0	4
3	CS 417	Artificial Intelligence	3	0	0	3
4	CS 419	Cloud Computing	2	2	0	3
5	E2	Elective	X	X	X	3
6	SE 421	Year-4 Project Phase I	0	2	2	2
7	HS 420	Communication Skills and Personality Development	1	2	0	2
8	HS 414	French Language & Culture VII	0	2	0	0
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Semester 8						
	Code	Course	L	T	P	Credits
1	E3	Elective	X	X	X	3
2	E4	Elective	X	X	X	3
3	E5	Elective	X	X	X	3
4	SE 422	Year-4 Project Phase II	0	9	9	9
5	SE 410	Entrepreneurship, IPR, Legal	3	0	0	3
6	HS 416	French Language & Culture VIII	0	2	0	0
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