

ACADEMIC REGULATIONS FOR FOUR-YEAR UNDERGRADUATE DEGREE PROGRAMS

(Applicable to students from the Academic Year 2014-15 and onwards)

Branch: CSE

Semester 1						
	Code	Course	L	T	P	Credits
1	MA 101	Math I: Calculus & Ordinary Differential Equations	4	2	0	5
2	PH101	Physics I: Mechanics & Thermodynamics	4	2	2	6
3	EE 101	Basic Electrical Engineering	2	1	2	3.5
4	ME 101	Introduction to Engineering Design	2	0	2	3
5	SE 101	Introduction to Society & Technology	1	1	0	1.5
6	HS 101	Literature & Philosophy	1	2	0	2
7	HS 102	French Language & Culture	0	2	0	0
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Semester 2						
	Code	Course	L	T	P	Credits
1	MA 102	Math II - Linear Algebra & Applied Analysis	4	2	0	5
2	CB 101	Chemistry	4	2	2	6
3	EE 102	Electronics	2	1	2	3.5

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4	CS 101	Introduction to Computer Sciences	2	0	2	3
5	SE 102	Media Project	1	1	0	1.5
6	HS 103	Cinema & Philosophy	1	2	0	2
7	HS 104	French Language & Culture	0	2	0	0
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Semester 3						
	Code	Course	L	T	P	Credits
1	MA 203	Math III –Real Analysis & Algebra	4	2	0	5
2	PH 202	Physics II: electromagnetism & optics	4	2	2	6
3	ME 202	Solid Mechanics & Fluid Mechanics	2	2	0	3
4	EE 203	Signals & Systems	2	1	1	3
5	SE 203	Design Thinking	1	0	2	2
6	SE 205	Introduction to Economy	1	1	0	1.5
7	HS 205	Indian English Literature	1	1	0	1.5
8	HS 206	French Language & Culture	0	2	0	0
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Semester 4						
	Code	Course	L	T	P	Credits
1	MA 204	Math IV : Computational Methods & Scientific Computing	3	2	2	5
2	CB 202	Biology	2	0	0	2

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3	PH 203	Physics III: Introduction to Modern Physics	2	1	0	2.5
4	ME 203	Material Sciences	2	1	1	3
5	CS 202	Data Structures and Algorithms	2	0	2	3
6	CS 204	Object Oriented Programming using JAVA	2	2	0	3
7	SE 204	Design Project	0	1	3	2
8	HS 207	Modern Culture & Philosophy	1	1	0	1.5
9	HS 208	French Language & Culture	0	2	0	0
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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
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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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ELECTIVES LIST (for semesters 6, 7 and 8)

S.No.	Code	Course	L	T	P	Credits
1	CS 351	Embedded Systems	2	0	2	3
2	CS 452	Datamining	2	2	0	3
3	CS 453	Mobile Communication and Computing	2	2	0	3
4	CS 454	VLSI Design Using Verilog	2	0	2	3
5	CS 455	Cryptography and Information Security	3	0	0	3
6	CS 456	Data warehousing and Advanced Database concepts	2	2	0	3
7	CS 457	Machine Learning	3	0	0	3
8	EE 454	Image Processing and Computer Vision	3	0	0	3
9	EE 456	VLSI Circuits	3	0	0	3
10	EE 457	Information Theory and Coding	3	0	0	3
11	EE 459	Design for Testability/Co-design	3	0	0	3
12	EE 461	Wireless Sensor Networks	3	0	0	3
13	EE 466	Medical Imaging	3	0	0	3
14	ME 467	Introduction to Robotics	3	0	0	3
15	ME 452	Introduction to Operations Research	3	0	0	3
16	PH 304	Physics IV	3	0	0	3
17	PH 452	Fiber and Integrated Optics for Optical Communication	3	0	0	3
18	HS 411	Introduction to Social Sciences	3	0	0	3
19	CB 304	Chemical & Bio Engineering	3	0	0	3