

STUDENTS ADMITTED IN THE YEAR 2011 & 2012

Semester I			
S. No.	Interactive Learning Modules	Credits	Examination code
I.1	Seeing the world through calculus: First Steps	7	911101
I.2	The Science and Art of Logic and Programming	7	911102
I.3	Language and Communication: Computational Linguistics	7	911103
I.4	Information organization and the art of problem solving	7	911104
Engineering Kitchen: Innovation Lab			
	Activity Module:: Creative Writing equally distributed over the first four semesters	4	911105
Total credits		32	
Semester II			
II.1	Modeling continuous change through ordinary differential equations and complex analysis	7	911201
II.2	Reflecting thought processes via object oriented programming	7	911202
II.3	Linearity in Nature: Engineering through Linear Algebra	7	911203
II.4	The art of communication	4	911204
Engineering Kitchen: Innovation Lab			
	Activity Module:: Summer Internship	7	911205
Total credits		32	
Semester III			
III.1	Modeling change in the world around us : partial differential equations with MatLab	7	911301
III.2	Constructing Computers: deconstructing digital architecture	7	911302
III.3	Impact of Technology: Philosophical Implications	4	911303
III.4	Option Pool 3-1: (Pick one)		
III.4.1	Physics of Motion	7	911304
III.4.2	Understanding 'New Biology': convergence and	7	911305

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	experimentation		
III.4.3	Understanding Economic Behaviour: The micro level	7	911306
Engineering Kitchen: Innovation Lab			
	Activity Module: Project Work	7	911307
Total credits		32	
Semester IV			
IV.1	Does Nature play dice?: The amazing world of probability and statistics	7	911401
IV.2	Communication in Digital Networks	7	911402
IV.3	Data Modeling and Design	7	911403
IV.4	Option Pool 4-1: (Pick one)		
IV.4.1	Logic and Functions through Digital Electronics	4	911404
IV.4.2	Exploring the Organization of Cells	4	911405
IV.4.3	Understanding Economic Behaviour: The macro level	4	911406
Engineering Kitchen: Innovation Lab			
	Activity Module:: Summer Internship : projects drawn from the world around us	7	911407
Total credits		32	
Semester V			
V.1	Discretizing and understanding real life situations through a mathematical lens	7	911501
V.2	Digital Signal Processing	7	911502
V.3	Option Pool 5-1: (Pick one)		
V.3.1	Heat and Thermodynamics	4	911503
V.3.2	Language of Cellular Communication & Interactions	4	911504
V.3.3	Environmental Management	4	911505
V.4	Option Pool 5-2: (Pick one)		
V.4.1	Design your system: The digital way	7	911506
V.4.2	Design & Flow of Information in living systems	7	911507
V.4.3	Management Principles	7	911508
Engineering Kitchen: Innovation Lab			
	Activity Module:: Project in Industry, Society and Villages	7	911509
Total credits		32	
Semester VI			
VI.1	Algorithms for Continuous Mathematics: Numerical methods	7	911601
VI.2	Addressing real world complexities: Logic systems	7	911602
VI.3	Option Pool 6-1: (Pick one)		


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	Control Systems	4	911603
	Methods for studying Biological Informational Molecules	4	911604
	eBusiness: Organization & Strategy	4	911605
VI.4	Option Pool 6-2: (Pick one)		
VI.4.1	Engineering at Molecular Scale: Devices and Nanotechnology	7	911606
VI.4.2	Computational Methods for Structure & function Prediction in Biology	7	911607
VI.4.3	Innovation Management	7	911608
Engineering Kitchen: Innovation Lab			
	Activity Module:: Industrial mini project	7	911609
Total credits		32	
Semester VII			
VII.1	Understanding Signals: The mathematical and computational way	7	911701
VII.2	Digital Security: Compression and Encryption	7	911702
VII.3	Option Pool 7-1: (Pick one)		
	Circuit Analysis and Synthesis	4	911703
	Biological Networks and Oscillations (Molecular, Cellular, and Neuronal Networks)	4	911704
	Theory in Practice: The art of project management	4	911705
VII.4	Option Pool 7-2: (Pick one)		
VII.4.1	Robotics: Design, Construct and Operate <i>eYantra with IIT Bombay</i>	7	911706
VII.4.2	Systems Biology and Synthetic Biology	7	911707
VII.4.3	Operations and Technology Management	7	911708
Engineering Kitchen: Innovation Lab			
	Activity Module:: Industrial mini project, Simulation of real time cases	7	911709
Total credits		32	
Semester VIII			
VIII.1	Fluidity in nature: computational interpretations	7	911801
VIII.2	Creativity in Digital World: Graphics and Multimedia	7	911802
Engineering Kitchen: Innovation Lab			
	Activity Module:: Industrial major project	18	911803
Total credits		32	


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