

**List of Courses 112**

Sr. No.	Course No.	Course Title	Credits L-T-P-C	Instr	2 <sup>nd</sup> sem	4 <sup>th</sup> sem CS	4 <sup>th</sup> sem EE	4 <sup>th</sup> sem ME	6th sem CS	6th sem EE	6th sem ME
1	MA102	Mathematics II	2-1-0-3	SA	C						
2	EE101	Basic Electrical Engg.	3-0-0-3	AJ	C						
3	EE101P	Basic Electrical & Electronics Lab	0-0-3-2	AJ & SM	C						
4	EE102(NKN)	Introduction to Electronics	3-0-0-3	SM LC: BSR	C						
5	ME104	Engineering Thermodynamics	3-2-0-5	AK	C						
6	CS101	Introduction to Computing	3-0-0-3	TAG	C						
7	CS101P	Introduction to Computing Lab	0-0-3-2	SB, MT, PCR, PJ	C						
8	HS151	Advanced English	3-0-0-3	Suman	E						
9	HS152	Introduction to Rhetoric	3-0-0-3	BS	E						
10	HS352	German II	3-0-0-3	BK	E				E	E	E
11	IC201	Design Practicum	0-0-6-4	RK		C	C	C			
12	HS251	Managerial Economics	3-0-0-3	RDT		E	E	E			
13	HS252	Introduction to Psychology	3-0-0-3	SS		E	E	E			
14	HS253	Introduction to Sociology	3-0-0-3	A. Kumar		E	E	E			
15	HS254	Introduction to European Philosophy	3-0-0-3	BS		E	E	E			
16	HS255	India since Independence	3-0-0-3	MD		E	E	E			
17	MA202	Probability and Random Processes	3-0-0-3	S. Azad		C	C	E			
18	CS203	Discrete Structures	3-0-0-3	GG/?		C					
19	CS204	Introduction to Database	3-0-0-3	AK		C					
20	CS206	Computer Networks	3-0-0-3	AS & AK		C					
21	EE201	Electromechanics	3-0-0-3	BSR			C				
22	EE201P	Electromechanics Lab	0-0-2-1	BSR			C				
23	EE202	Analog Electronics	3-0-0-3	GH			C				
24	EE202P	Analog Electronics Lab	0-0-3-2	GH & TJ			C				
25	EE204	Signals and Systems	3-0-0-3	AKS			C				
26	ME209	Dynamics	2-2-0-4	BNB				C			
27	ME210	Fluid Mechanics	3-1-0-4	AB				C			
28	ME211	Analysis and Synthesis of Mechanisms	3-2-0-5	VSC				C			
29	CS306	Operating Systems	3-0-0-3	SB					C		
30	CS350	Computer Graphics	1-0-3-3	GG					E		
31	CS501	Access Network	3-0-0-3	AS					E	E	
32	CS592	Topics in SNMP and Network Management	2-0-0-2 Directed Self Study	TAG					E	E	
33	CS592	Selected Topics in Bio-Informatics	2-0-0-2	Guest Instructor					E	E	
34	EE304 (NKN)	Communications Engg.	3-0-0-3	DKM LC: AJ						C	
35	EE305	Digital Signal Processing	3-0-0-3	SCD LC: BTH						C	
36	EE306	Computer Organization & Microprocessor	3-0-0-3	AKS						C	
37	EE501	Power System Operation & Control	3-0-0-3	TJ						E	
38	EE502P	Analog System Design Lab	0-0-3-2	GH & TJ						E	
39	EE307	Theory of Measurements	3-0-0-3	BTH					E	E	C
40	ME307	Energy Conversion Devices	3-1-0-4	OPS							C
41	ME351	Management of Manufacturing & Logistics Systems	3-0-0-3	NS					E	E	C
42	ME352	Finite Element Methods in Engg.	3-0-0-3	RK						E	E
43	HS351	Popular Fiction	3-0-0-3	Suman					E	E	E
44	HS353	Science, Technology and Society	3-0-0-3	A. Kumar					E	E	E
45	HS354	Social Psychology	3-0-0-3	SS					E	E	E
46	HS355	India Through its Epics	3-0-0-3	MD					E	E	E
47	ME353	Electronic Materials and their Applications	3-0-0-3	RV		E	E	E	E	E	E
48	ME354	Science & Technology of Thin Films	3-0-0-3	AD		E	E	E	E	E	E
49	MA460	Nonlinear Dynamics and Chaos	3-0-0-3	NK					E	E	E
50	PH341	X-rays as a Probe to Study the Material Properties	3-0-0-3	BR					E	E	E
51	PH342	Laser Science and Applications	3-0-0-3	SKP					E	E	E
52	PH343	Photonics	3-0-0-3	PP					E	E	E
53	CY344	Food Chemistry: Processing, Preservation and Storage	3-0-0-3	SG					E	E	E
54	CY342	Nanoscience: Understanding Small Systems	3-0-0-3	AC					E	E	E
55	PH602	Quantum Theory of Electrons in Solids	3-0-0-3	AT	MS/PhD				E	E	E
56	MA641	Operations Research	3-0-0-3 Self Study	MT	PhD Math						
57	CY641	Polymer Synthesis	3-0-0-3	KG	MS/PhD						
58	MA651	Optimization Techniques	3-0-0-3	MT	MS/PhD				E		
59	MA608	Computational Fluid Dynamics	3-0-0-3	RR	MS/PhD						E
60	PH701	Introduction to Molecular Simulations	3-0-0-3	PJ	PhD						
61	PH702	Advanced Quantum Mechanics	3-0-0-3	HV	PhD						
62	PH703	Electrodynamics	3-0-0-3	VR	PhD						
63	CY701	Advanced Physical Methods: Theory and Applications	3-0-0-3	CKN	PhD						
64	CY702	Advanced Inorganic Chemistry: Theory and Applications	3-0-0-3	PCP	PhD						
65	CY705	Modern Methods in Organic Synthesis	3-0-0-3	PCR	PhD						
66	CY706	Self-assembly of Surfactants and Polymers in Solutions	3-0-0-3	PFS	PhD						
67	CS547	Network Management Systems	3-0-0-3 Directed Self Study	TAG	MS/PhD						
68	CS693	Special Topics in Compressed Sensing & its Applications	3-0-0-3 Self Study	AKS	MS/PhD						
69	CS609	Speech Processing	3-0-0-3 Self Study	AKS	MS/PhD						
70	?	Fractional Differential Equations	3-0-0-3 Self Study	SA	PhD						

**HSS Workshops (Registration for these will be done later)**

HS591	Journalism	15 contact Hours ( 1 credit)	Shailaja Bajpai (Indian Express)	All B.Tech April 5-9, 2012				
HS591	Principles of Financial Accounting	15 contact Hours ( 1 credit)	Mahim Sagar (IIT Delhi)	All B.Tech April 5-9, 2012				
HS591	Principles of Organizational Management	15 contact Hours ( 1 credit)	Invited Speaker	All B.Tech April 5-9, 2012				