

Course Offering Winter 2015

Course_Code	Title	Instructor 2014-15	Credits	On offer for
Core				
CSE102	Data Structures & Algorithms	Sandip Aine	4	UG-I Year
CSE112/ECE112	Computer Organization	Neeraj Goel (G)	4	UG-I Year
DES130	Intro. Engg. Design	Jyoti Sinha (V)	4	UG-I Year
MTH201	Probability & Statistics	Richa Singh + Mayank Vatsa	4	UG-I Year
BIO2xx	Introduction to Biology and its Quantitative Modeling	Subhadip Raychaudhuri	2	UG-II Year
COM301A	Technical Communication (2 cr)	Hemant Kumar + Pankaj Jalote	2	UG-II Year
CSE202	Fundamentals of Database Systems	Vikram Goyal	4	UG-II Year
CSE222	Algorithm Design & Analysis	Rajiv Raman	4	UG-II Year
CSE232	Computer Networks	Vinayak S Naik	4	UG-II Year
ECE230	Fields and Waves	M S Hashmi	4	UG-II Year
ECE214	Integrated Electronics	R N Biswas + Sujay Deb	4	UG-II Year
ECE240	Principles of Communication Systems	Pravesh Biyani	4	UG-II Year
MTH204	Math IV (Numerical Methods)	S C S Rao (G)	4	UG-II Year
ESC205A	Environmental Sciences (2 cr)	Suresh Jain (G)	2	UG
Elective				
BIO3xx/BIO5xx	Foundations of Biology - II (new)	Sriram K	4	UG/PG
BIO505	Introduction to Computational Neuroscience	Anubha Gupta	4	UG/PG
BIO5xx	Stochastic Simulations in System Biology and Biophysics	Subhadip Raychaudhuri	4	UG/PG
CSE233	Network Administration	Vinayak S Naik	2	UG-II Year
CSE322	Theory of Computation	Astrid Kiehn	4	UG
CSE341/CSE541	Biometrics/Advanced Biometrics	Mayank Vatsa	4	UG/PG
CSE342/CSE542	Pattern Recognition	Richa Singh	4	UG/PG
CSE344/CSE544/ECE344/ ECE544	Computer Vision	Saket Anand	4	UG/PG
CSE3xx/5xx	Security Engineering (new)	Sambuddho Chakravarty	4	UG/PG
CSE501	Designing Human-Centred Systems	Ponnurangam K	4	UG/PG
CSE508	Information Retrieval	Srikanta Bedathur	4	UG/PG
CSE522	Verification of Reactive Systems	Astrid Kiehn	4	UG/PG
CSE530	Distributed Systems Security	H B Acharya	4	UG/PG
CSE5WN/ECE5WN	Wireless Networks	Sanjit kaul	4	UG/PG
CSE5xx	Big Data Analytics	Vikram Goyal	2	UG/PG
CSE5xx	Introduction to Quantum Computing (new)	Debajyoti Bera	4	UG/PG
CSE5xx	Programming Cloud Services for Mobile Applications (new)	Pushpendra Singh	4	UG/PG
CSE3xx	Practice of Programing (new)	Rahul Purandare	4	UG/PG
CSE5xx	GPU Computing (new)	Ojaswa Sharma	4	UG/PG

CSE5xx	Probabilistic Graphical Models (new)	Chetan Arora	4	UG/PG
CSE3xx/CSE5xx	Complexity Theory(New)	Debajyoti Bera	4	UG/PG
CSE602	Program Optimization	Apala Guha	4	UG/PG
CSE645	Digital and Cyber Forensics	Robin Verma	4	UG/PG
CSE694F	Multimedia Security	A V Subramanayam	4	UG/PG
CSE793A	Topics in Cryptanalysis	Donghoon Chang	4	UG/PG
DES302	Animation and Graphics	Manohar Khushalani (V)	4	UG
ECE452/ECE552	Statistical Signal Processing (new)	Angshul Majumdar+ Saket Anand	4	UG/PG
ECE470/ECE670	Robotics	Jyoti Sinha	4	UG/PG
ECE516	System on Chip Design and Test	Sujay Deb	4	UG/PG
ECE539	Wireless System Implementation (new)	Vivek Bohara	4	UG/PG
ECE573	Advanced Embedded Logic Design (AELD)	Alexander Fell	4	UG/PG
ECE5xx	Advanced Image Processing (new - 2 cr)	Angshul Majumdar	2	UG/PG
ECE5xx	Special Topics RF Circuit Design (new - 2 cr)	M S Hashmi	2	UG/PG
ECE5OCS	Optical Communication Systems(New)	Anand Srivastava	4	UG/PG
ECE4xx/ECE5xx	Antennas Theory and Design	Shobha Sundar Ram	4	UG/PG
ECE672	Stochastic Estimation and Control (new - 2 cr)	Sachit Butail	2	UG/PG
ECE5xx	Principles of Digital Communication System (new)	Anand Srivastava	4	UG/PG
ECE5GICT	Green Information and Communication Technology(new)	Sumit Darak	4	PG
ECO302	Applied Econometric Analysis	Shreemoy Mishra	4	UG
ECO303	Economics of Information and IT	Shreemoy Mishra	4	UG
ENT402	Entrepreneurship as Career II	Hemant Kumar	2	UG
HSS203	Introduction to the Study of Literature	Honey Jhalani (G)	4	UG
HSS204	Introduction to Psychology	Kailash Tuli (G)	4	UG
HSS205	Introduction to Sociology	Duru Arunkumar (G)	4	UG
HSS208	Theory and Practice of Engineering Ethics	Raj Ayyar(V)	4	UG
HSS212	Critical Thinking	Raj Ayyar(V)	4	UG
HSS213	Issues in Contemporary World	Uma Shanker Singh (G)	4	UG
HSS2xx	Positive Psychology	Akshay Kumar(V)	4	UG
MTH303	Graph Theory	Samaresh Chatterji	4	UG/PG
MTH502	Number Theory	Balkrishna Shetty (G)	4	UG/PG
PHY3xx	Opto-Electronics (new)	Subhash Chopra (G)	4	UG

BTech 1st Year -Winter Semester 2015

BTech 1st Year -Winter Semester 2015																	
Day	9-9:30	9:30-10	10-10:30	10:30-11	11-11:30	11:30-12	12-12:30	12:30-1	1-1:30	1:30-2	2-2:30	2:30-3	3-3:30	3:30-4	4-4:30	4:30-5	5-5:30
MON		CO C01			Lab-IED Gp 3 L33			LUNCH	Lab-IED Gp 4 L33			CT C12	Socio C24	Psy C02	Ppsy C11		
					Lab-DSA Gp 4/5/6 L21,L22,L23				Lab-DSA Gp 1/2/3 L21,L22,L23								
TUE	PS C01	DSA C01			Tut-DSA Gp 1/2/3 LR1,LR2,LR3			LUNCH	Lab-IED Gp 2 L33			Lit C23	ICW C11	TPEE C12			
					Lab-IED Gp 5 L33				Tut-CO Gp 4/5/6 LR1,LR2,LR3								
WED		CO C01			IED C01			LUNCH	Lab-IED Gp6 L33			CT C12	Socio C24	Psy C02	Ppsy C11		
					Tut-CO Gp 1/2/3 LR1,LR2,LR3				Lab-IED Gp1 L33								
THU	PS C01	DSA C01			Lab-CO Gp 4/5/6 L21,L22,L23			LUNCH	Tut-DSA Gp 4/5/6 LR1,LR2,LR3			Seminar C21					
					Tut-PS Gp 1/2/3 C01, C02												
FRI	PS C01	DSA C01			Lab-CO Gp 1/2/3 L21,L22,L23			LUNCH	IED C01			Lit C23	ICW C11	TPEE C12			
					Tut-PS Gp 4/5/6 C01, C12												

Mandatory /Elective	Course Code	Course Title	Instructor	Credit	Accronym
Mandatory	CSE102	Data Structures & Algorithms	Sandip Aine	4	DSA
Mandatory	CSE112/ECE112	Computer Organization	Neeraj Goel (G)	4	CO
Mandatory	DES130	Introduction to Engineering Design	Jyoti Sinha(V)	4	IED
Mandatory	MTH201	Probability & Statistics	Richa Singh + Mayank Vatsa	4	PS
Elective	HSS203	Introduction to Study of Literature	Honey Jalhani (G)	4	Lit
Elective	HSS208	Theory and Practice of Engineering	Raj Ayyar (V)	4	TPEE
Elective	HSS212	Critical Thinking	Raj Ayyar (V)	4	CT
Elective	HSS213	Issues in Contemporary World	Uma Shanker Singh (G)	4	ICW
Elective	HSS205	Introduction to Sociology	Duru Arun Kumar (G)	4	Socio
Elective	HSS204	Introduction to Psychology	Kailash Tuli (G)	4	Psy
Elective	HSS2PP	Positive Psychology	Akshay Kumar (V)	4	Ppsy

BTech 2nd Year (CSE)-Winter Semester 2015

Day	9-9:30	9:30-10	10-10:30	10:30-11	11-11:30	11:30-12	12-12:30	12:30-1	1-1:30	1:30-2	2-2:30	2:30-3	3-3:30	3:30-4	4-4:30	4:30-5	5-5:30	
MON		Tut-CN Gp 1/2/3/4 LR2,LR3,S01,S02			CN C21		ADA C21		LUNCH		Tut-PCS LR1			Tut-DBMS - Gp1 -LR2				
TUE		NA C24			CN C21		ADA C21				Tut-TOC LR2							
WED	Tut-ADA Gp1/2/3/4 L21,L22,L23,LR2				DBMS C21						Faculty Meeting							
											Tut-DBMS -Gp2-C23							
											Tut DBMS-Gp3 & 4-S01&S02							
THU	Lab-ADA Gp 1/2/3/4 L21,L22,L23,LR2				CN C21		ADA C21				TOC C13 NT C02 GT C24 FOB-II C11 PCS C03			Seminar C21				
FRI					DBMS C21						TCom C21			IBQM C02				

Mandatory/ Elective	Course Code	Course Title	Instructor	Credit	Acronym
Mandatory	CSE202	Fundamentals of Database Systems	Vikram Goyal	4	DBMS
Mandatory	CSE222	Algorithm Design & Analysis	Rajiv Raman	4	ADA
Mandatory	CSE232	Computer Networks	Vinayak S Naik	4	CN
Mandatory	COM301A	Technical Communication	Hemant Kumar+Pankaj Jalote	2	Tcom
Elective	ESC205A	Environmental Sciences	Suresh Jain(G)	2	EVS
Elective	BIO2xx	Introduction to Biology and its Quantitative Modeling	Subhadip Raychaudhuri	2	IBQM
Elective	BIO3FOB/ BIO5FOB	Foundations of Biology-II	Sriram K	4	FOB-II
Elective	CSE322	Theory of Computation	Astrid Kiehn	4	TOC
Elective	MTH302	Graph Theory	Samaresh Chatterji	4	GT
Elective	ECE240	Principles of Communication Systems	Pravesh Biyani	4	PCS
Elective	CSE233	Network Administration	Vinayak S Naik	2	NA
Elective	MTH502	Number Theory	Balakrishna Shetty(G)	4	NT

Eng/SC/Math Course

Eng/SC/Math Course

Eng/SC/Math Course

Eng/SC/Math Course

Eng/SC/Math Course

Eng/SC/Math Course

BTech 2nd Year (ECE)-Winter Semester 2015

Day	9:00-10	9:30-10	10:10-30	10:30-11	11-11:30	11:30-12	12-12:30	12:30-1	1-1:30	1:30-2	2-2:30	2:30-3	3-3:30	3:30-4	4-4:30	4:30-5	5-5:30	5:30-6	6-6:30	6:30-7	
MON						F&W C03			LUNCH		Tut-PCS Gp 1/2 LR1			IE C03				Maths IV C03			
TUE					Lab-IE Gp 1		L32				PCS C03			EVS C21							
WED					Lab-IE Gp2		L32				Lab-F&W		L31								
THU			IE C24			F&W C03					PCS C03					Seminar C21			Maths IV C03		
FRI			Tut-F&W S02			Tut-Maths IV LR1					TCom C21				IBQM C02						

Course Code	Course Title	Instructor	Credit	Accronym
ECE230	Fields and Waves	M S Hashmi	4	F&W
ECE214	Integrated Electronics	R N Biswas+Sujay Deb	4	IE
MTH204	Math IV (Numerical Methods)	S C S Rao (G)	4	Maths IV
COM301 A	Technical Communication	Hemant Kumar + Pankaj Jalote	2	Tcom
ESC205A	Environmental Sciences	Suresh Jain (G)	2	EVS
BIO2xx	Introduction to Biology and its Quantitative Modeling	Subhadip Raychaudhuri	2	IBQM
ECE240	Principles of Communication Systems	Pravesh Biyani	4	PCS

Eng/SC/Math Course

Eng/SC/Math Course

Btech 3rd Year, Btech 4th Year, Mtech 1st year, Mtech 2nd Year & PhD's-Winter Semester 2015

Day	9-9:30	9:30-10	10-10:30	10:30-11	11-11:30	11:30-12	12-12:30	12:30-1	1-1:30	1:30-2	2-2:30	2:30-3	3-3:30	3:30-4	4-4:30	4:30-5	5-5:30	
MON		CV C13	GPU C23	MS C11	LUNCH						ENT-II C03				CT C12			
		STRFCD C03		TC C13							SSP C13				Socio C24			
		SSSBB C02		WSI C23							IQC C22				Psy C02			
		VRS C22		CMPT C22							AELD C23				Ppsy C11			
		AIP LR1																
		SEC LR1																
TUE		PP C21		ATD C13	LUNCH						FOB-II C11	A&G L21/C12		Lit C23	EIT C03			
		SCDT C22		AEA C22							NT C02			PDCS C01		ICW C11		
		DHCS C11		SE C11							TOC C13					TPEE C12		
		WN C23		PGM C02							GT C24					DCF C22		
		PO C03		Rob C23							PR C21					Dsys C01		
											PCSMA C22					EVS C21		
WED		ENT-II C03		BIOM C22	LUNCH						Faculty Meeting			CT C12				
		SSP C13		IR C03												Socio C24		
		IQC C22		Neuro C23												Psy C02		
		AELD C23		OCS C02												Ppsy C11		
				GICT LR1												BDA C22		
THU		CV C13	GPU C23	MS C11	LUNCH						FOB-II C11	A&G L21		Seminar C21				
		STRFCD C03		TC C13							NT C02					PDCS C01		
		SSSBB C02		WSI C23							TOC C13							
		VRS C22		CMPT C22							GT C24							
		AIP LR1									PR C21							
		SEC LR1									PCSMA C22							
FRI		PP C21		ATD C13	LUNCH						BIOM C22			Lit C23	EIT C03			
		SCDT C22		AEA C22							IR C03					ICW C11		
		DHCS C11		SE C11							Neuro C23					TPEE C12		
		WN C23		PGM C02							OCS C02					DCF C22		
		PO C03		Rob C23							GICT LR1					Dsys C01		
SAT		Lab-DCF L21			LUNCH													

Course Code	Course Title	Instructor	Credit	Accronym
BIO3xx/BIO5xx	Foundations of Biology-II	Sriram K	4	FOB-II
BIO505	Introduction to Computational Neuroscience	Anubha Gupta	4	Neuro
BIO5xx	Stochastic Simulations in System Biology and Biophysics	Subhadip Raychaudhuri	4	SSSBB

Eng/SC/Math Course

CSE322	Theory of Computation	Astrid Kiehn	4	TOC
CSE341/CSE541	Biometrics/Advanced Biometrics	Mayank Vatsa	4	BIOM
CSE342/542	Pattern Recognition	Richa Singh	4	PR
CSE344/CSE544/ ECE344/ ECE544	Computer Vision	Saket Anand	4	CV
CSE3xx/CSE5xx	Security Engineering	Sambuddho	4	SE
CSE501	Designing Human-Centred Systems	Ponnurangam K	4	DHCS
CSE508	Information Retrieval	Srikanta Bedathur	4	IR
CSE522	Verification of Reactive Systems	Astrid Kiehn	4	VRS
CSE530	Distributed Systems Security	H B Acharya	4	DSys
CSE5WN/ECE5WN	Wireless Networks	Sanjit Kaul	4	WN
CSE5xx	Big Data Analytics	Vikram Goyal	2	BDA
CSE5xx	Introduction to Quantum Computing	Debajyoti Bera	4	IQC
CSE5xx	Programming Cloud Services for Mobile Applications	Pushpendra Singh	4	PCSMA
CSE3xx	Practice of Programming	Rahul Purandare	4	PP
CSE5xx	GPU Computing	Ojaswa Sharma	4	GPU
CSE5xx	Probabilistic Graphical Models	Chetan Arora	4	PGM
CSE3xx/CSE5xx	Complexity Theory	Debajyoti Bera	4	CMPT
CSE602	Programm Optimization	Apala Guha	4	PO
CSE645	Digital and Cyber Forensics	Robin Verma	4	DCF
CSE694F	Multimedia Security	A V Subramanyam	4	MS
CSE793A	Topics in Cryptanalysis	Donghoon Chang	4	TC
ECE452/ECE552	Statistical Signal Processing	Angshul Majumdar + Saket Anand	4	SSP
ECE516	System on Chip Design and Test	Sujay Deb	4	SCDT
ECE539	Wireless System Implementation	Vivek Bohara	4	WSI
ECE573	Advanced Embedded Logic Design	Alexander Fell	4	AELD
ECE355/ECE555	Advanced Image Processing	Angshul Majumdar	2	AIP
ECE4xx/ECE5xx	Antennas Theory and Design	Shobha Sundar Ram	4	ATD
ECE5xx	Special Topics in RF Circuit Design	M S Hashmi	2	STRFCD
ECE5OCS	Optical Communication Systems	Anand Srivastava	4	OCS
ECE470/ECE670	Robotics	Jyoti Sinha	4	Rob
ECE672	Stochastic Estimation and Control	Sachit Butail	2	SEC
ECE5xx	Principles of Digital Communication System	Anand Srivastava	4	PDCS
ECE5GICT	Green Information and Communication Technology	Sumit Darak	4	GICT
ECO302	Applied Econometric Analysis	Shreemoy Mishra	4	AEA
ECO303	Economics of Information and IT	Shreemoy Mishra	4	EIIT
ENT402	Entrepreneurship as Career II	Hemant Kumar	2	ENT-2
ESC2EVS	Environmental Sciences	Suresh Jain (G)	2	EVS

Eng/SC/Math Course

Pre Mid Sem

Post Mid Sem

Eng/SC/Math Course

DES302	Animation and Graphics	Manohar Khushalani (V)	4	AG
HSS203	Introduction to Study of Literature	Honey Jalhani(G)	4	Lit
HSS208	Theory and Practice of Engineering Ethics	Raj Ayyar(V)	4	TPEE
HSS212	Critical Thinking	Raj Ayyar(V)	4	CT
HSS213	Issues in Contemporary World	Uma Shanker Singh (G)	4	ICW
HSS205	Introduction to Sociology	Duru Arun Kumar (G)	4	Socio
HSS204	Introduction to Psychology	Kailash Tuli(G)	4	Psy
HSS2PP	Positive Psychology	Akshay Kumar(V)	4	Ppsy
MTH303	Graph Theory	Samaresh Chatterji	4	GT
MTH502	Number Theory	Balkrishna Shetty (G)	4	NT
PHY302	Opto-Electronics	Subhash Chopra (G)	4	OE

Eng/SC/Math Course

Eng/SC/Math Course