

Course offerings in 2016-17 Semester II

Version 3 dated 21.12.2016

UG Programmes

CD	AD	CNO	CName	Credits	Faculty
B.Tech I year II Semester – CSE&CSD					
In	MA	IMA102	Mathematics II	3-1-0-4	Subhadip Mitra + Lakshmi Burra
In	CS	ICS103	Data Structures	3-1-3-5	Lini Thomas
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
In	EC	IEC103	Basic Electronic Circuits	3-1-3-5	Rambabu Kalla
In	CS	ICS105	IT Workshop II	2-0-3-3	Venkatesh Choppella (Coordinator)
In	HS	IHS106/ IHS102	HSS Skills 2 / English 2	2-0-0-2	CEH Lecturers / Aruna Chaluvadi
Total 16-6-9-23					
B.Tech I year II Semester - ECE & ECD					
In	MA	IMA102	Mathematics II	3-1-0-4	Subhadip Mitra + Lakshmi Burra
In	CS	ICS103	Data Structures	3-1-3-5	Lini Thomas
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
In	EC	IEC103	Basic Electronic Circuits	3-1-3-5	Rambabu Kalla
In	EC	IEC104	Electronics Workshop I (H2)	1-0-4-2	K. Madhava Krishna
In	HS	IHS106/ IHS102	HSS Skills 2 / English 2	2-0-0-2	CEH Lecturers / Aruna Chaluvadi
Total 15-4-10-22					
B.Tech I year II Semester – CND					
In	MA	IMA102	Mathematics II	3-1-0-4	Subhadip Mitra + Lakshmi Burra
In	CS	ICS103	Data Structures	3-1-3-5	Lini Thomas
In	CS	ICS105	IT Workshop II	2-0-3-3	Venkatesh Choppella (Coordinator)
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
PR	SC	SCI341	General & Structural Chemistry	3-1-0-4	Abhijit Mitra
PR	CNS	SCI320	Intro. to Biology	3-1-0-4	Vinod Pallakkad
In	HS	IHS106/ IHS102	HSS Skills 2 / English 2	2-0-0-2	CEH Lecturers / Aruna Chaluvadi
Total 19-5-6-26					
B.Tech I year II Semester – CLD					
In	MA	IMA102	Mathematics II	3-1-0-4	Subhadip Mitra + Lakshmi Burra
In	CS	ICS103	Data Structures	3-1-3-5	Lini Thomas
In	CS	ICS105	IT Workshop II	2-0-3-3	Venkatesh Choppella (Coordinator)
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
Pr	HS	CLG412	Linguistics 2: Language & Society	3-0-0-4	Radhika M
In	HS	IHS106/ IHS102	HSS Skills 2 / English 2	2-0-0-2	CEH Lecturers / Aruna Chaluvadi
Total 16-4-6-22					

B.Tech I year II Semester – BSD					
In	MA	IMA102	Mathematics II	3-1-0-4	Subhadip Mitra+ Lakshmi Burra
In	CS	IEC103	Basic Electronic Circuits	3-1-3-5	Rambabu Kalla
In	CS	ICS105	IT Workshop II	2-0-3-3	Venkatesh Choppella (Coordinator)
Pr	BS	CES212	Structural Analysis	3-1-0-4	Venkateswarlu M
In	BS	CES511	Engineering Drawing and Sketching	3-1-0-4	Aniket Bhalkikar
In	BS		Basic Design	3-1-0-4	Sraavani G
In	HS	IHS106/ IHS102	HSS Skills 2 / English 2	2-0-0-2	CEH Lecturers / Aruna Chaluvadi

Total 19-5-6-26

B.Tech II year II Semester – CSE&CSD					
In	HS	IHS201	Intro to Human Sciences	3-1-0-4	Aniket Alam (Coordinator)
Pr	CS	CSE311	Formal Methods	2-1-0-2	Saswata Shannigrahi
In	HS	IHS107	Human Values II	0-2-0-2	Abhijit Mitra (Coordinator)
In	EG	IEG201	Engineering Systems(*)	3-1-0-4	Vishal Garg (Coordinator)
Pr	CS	CSE371	Artificial Intelligence (*)	3-1-0-4	Praveen Paruchuri
Pr	CS	CSE251	Graphics (*)	2-1-0-3	Avinash Sharma
In	EC	IEC239	Digital Signal Anal. & Appl. (*)	3-1-0-4	Vineet Gandhi
In	CS	ICS251	Computer Networks (*)	2-1-0-2	Ganesh Iyer

Total 18-9-0-25

Notes: Students can postpone one or two (*) courses to take Science and Humanities courses – to pursue Honours or DD in Sciences or Humanities. As an exception, to pursue a research area, a student can drop a (*) course and take a bouquet course.

Lateral Entry I year II Semester CSD					
Pr	CS	CSE311	Formal Methods	2-1-0-2	Saswata Shannigrahi
In	HS	IHS107	Human Values II	0-2-0-2	Abhijit Mitra (Coordinator)
In	EG	IEG201	Engineering Systems(*)	3-1-0-4	Vishal Garg (Coordinator)
Pr	CS	CSE371	Artificial Intelligence (*)	3-1-0-4	Praveen Paruchuri
Pr	CS	CSE251	Graphics (*)	2-1-0-3	Avinash Sharma
In	EC	IEC239	Digital Signal Anal. & Appl. (*)	3-1-0-4	Vineet Gandhi
In	CS	ICS251	Computer Networks (*)	2-1-0-2	Ganesh Iyer
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	

Total 18-9-0-25

B.Tech II year II Semester ECE & ECD:					
In	EG	IEG201	Engineering Systems	3-1-0-4	Vishal Garg (Coordinator)
Pr	EC	ECE335	Communication Theory I	3-1-0-4	Sachin Chaudhury
Pr	EC	ECE341	Digital Signal Processing	3-1-0-4	Lalitha V + Anil Kumar (T)
Pr	EC	ECE339	ECE Lab	0-0-3-1	Ubaidulla + Zia Abbas
Pr	EC	ECE361	Intro to VLSI *	3-1-0-4	Syed Azeemuddin + Zia Abbas
Pr	EC	ECE291	Electronics Workshop II	1-0-4-4	Jayanthi Sivaswamy + Syed Azeemuddin
In	HS	IHS201	Intro to Human Sciences	3-1-0-4	Aniket Alam (Coordinator)
In	HS	IHS107	Human Values II	0-2-0-2	Abhijit Mitra (Coordinator)

Total 16-7-7-27

B.Tech II year II Semester CND					
In	HS	IHS201	Intro to Human Sciences	3-1-0-4	Aniket Alam (Coordinator)
Pr	CS	CSE251	Graphics	2-1-0-3	Avinash Sharma
Pr	CS	CSE311	Formal Methods	2-1-0-2	Saswata Shannigrahi
In	HS	IHS107	Human Values II	0-2-0-2	Abhijit Mitra (Coordinator)

Pr	CNS	SCI347	Select topics in Physical Chemistry	3-1-0-4	Harjinder Singh
Pr	CNS	SCI372	Science Lab II	0-1-4-4	Tapan Kumar Sau + Prabhakar B
Pr	CNS	SCI438	Electromagnetism and Optics	3-1-0-4	Prabhakar B
Total				13-8-4-23	
B.Tech II year II Semester CLD					
In	EG	IEG201	Engineering Systems	3-1-0-4	Vishal Garg (Coordinator)
Pr	CS	CSE371	Artificial Intelligence	3-1-0-4	Praveen Paruchuri
Pr	CS	CSE251	Graphics	2-1-0-3	Avinash Sharma
Pr	CS	CSE311	Formal Methods	2-1-0-2	Saswata Shannigrahi
In	HS	IHS201	Intro to Human Sciences	3-1-0-4	Aniket Alam (Coordinator)
In	HS	IHS107	Human Values II	0-2-0-2	Abhijit Mitra (Coordinator)
In	CS	ICS251	Computer Networks	2-1-0-2	Ganesh Iyer
Pr	HS	CLG422	Computational Linguistics 2	3-1-0-4	Radhika M + Soma Paul
Total				18-9-0-25	
B.Tech II year II Semester CHD					
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
Pr	CS	CSE371	Artificial Intelligence (*)	3-1-0-4	Praveen Paruchuri
Pr	CS	CSE251	Graphics (*)	2-1-0-3	Avinash Sharma
Pr	CS	CSE311	Formal Methods	2-1-0-2	Saswata Shannigrahi
In	HS	IHS107	Human Values II	0-2-0-2	Abhijit Mitra (Coordinator)
In	CS	ICS251	Computer Networks	2-1-0-2	Ganesh Iyer
Pr	EH	HSS330	Space Time & Imaginary Reality	3-0-0-4	Sunil M Lohar + Jayachandran S + Navjyoti Singh
Pr	EH	HSS300	History of Ideas	3-0-0-4	Nandkishore Acharya
Pr	EH	HSS341	Classical Language: Sanskrit I	3-0-0-2	Devendra Dubey
Total				21-7-0-27	
B.Tech II year II Semester – BSD					
In	CS	CSE251	Basic Design	3-1-0-4	Sraavani G
In	HS	IHS107	Human Values II	0-2-0-2	Abhijit Mitra (Coordinator)
In	BS	CES223	Design of Concrete Structures	3-1-0-4	Pradeep R
In	HS	IHS201	Intro to Human Sciences	3-1-0-4	Aniket Alam (Coordinator)
Pr	BS	CEB411	Illumination Engineering	3-1-0-4	Vishal Garg
Pr	BS	CEF631	Foundation Engg & Design	3-1-0-4	Supriya Mohanty
Pr	BS	CEW212	Hydraulics & Applications	3-1-0-4	Rehana Shaik
Total				17-8-4-26	
B.Tech III year II Semester – CSE:					
In	CS	CSE496	BTP I	0-0-8-4	
Pr	CS		Bouquet Core	3-1-0-4	
OT	[+]	ISC202	Science II	3-1-0-4	M. Krishnan
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Elective (CS / Free)	3-1-0-4	
Total				18-1-0-20	
B.Tech III year II Semester – CSD:					
Pr	CS		Bouquet Core	3-1-0-4	
OT	[+]	ISC202	Science II	3-1-0-4	M. Krishnan
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Elective (CS / Free)	3-1-0-4	
			Research Stream Course	3-1-0-4	
		CSE492	Honours Project II	0-0-8-4	

Total 15-5-8-24					
Lateral Entry II year II Semester – CSD					
		CSE492	Honours Project II	0-0-8-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
OT	[+]		Elective (CS / Free)	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
Total 15-5-8-24					
Bouquet Courses: Bouquet courses for Computer Science cater to developing breadth in computer science in Foundations and Systems Area. Some of these courses are also Research Stream Courses. A student must take at least three courses from Foundations and Systems Bouquet Courses. (Lateral Entry students have to take 7 Bouquet Courses)					
Systems Courses					
CSE441		Database Systems		3-1-0-4	Vikram Pudi
CSE461		Software Engineering		3-1-0-4	Vasudeva Varma
CSE431		Distributed Systems (Max 100 Students) Prerequisite: Operating Systems. Networks desirable		3-1-0-4	Govindarajulu R
Foundation Courses					
CSE471		Statistical Methods in AI		3-1-0-4	Naresh Manwani
CSE418		Principles of Information Security		3-1-0-4	Srinathan Kannan
CSE481		Optimization Methods		3-1-0-4	Sujit Gujar
B.Tech III year II Semester – ECE:					
OT	[+]		Science/Maths/Humanities	3-1-0-4	
Pr	EC	ECE337	Communication Networks*	3-1-0-4	G. Rama Murthy
Pr	EC	ISC202	Science II	3-1-0-4	M. Krishnan
OT	CS		ECE Elective	3-1-0-4	
In	EC	ECE496	BTP I	0-0-8-4	
Total 15-4-0-20					
B.Tech III year II Semester – ECD:					
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
Pr	EC	ECE337	Communication Networks*	3-1-0-4	G. Rama Murthy
Pr	EC	ISC202	Science II	3-1-0-4	M. Krishnan
OT	EC		ECE Elective	3-1-0-4	
In	EC	ECE492	ECE-Honours Project II	0-0-8-4	
OT	EC		ECE Stream Elective	3-1-0-4	
Total 15-5-8-24					
List of Bouquet ECE Electives: Out of the five Level-1 Bouquet ECE electives, all the students are required to take at least two from one of the following four streams, and at least one from each of the remaining three streams. Remaining 2 electives can be chosen from any stream from level 2, provided the pre-requisites have been satisfied.					
Communication Stream					
Level 1					
ECE431		Signal Detection and Estimation Theory		3-1-0-4	Sachin Chaudhari
ECE439		Error Correcting Codes		3-1-0-4	Prasad Krishnan
ECE434		Network Theory		3-1-0-4	K R Sarma
Level 2					
ECE531		Topics in Wireless Communications		3-1-0-4	Ubaidulla
Signal Processing Stream					
Level 1					
ECE442		Time Frequency Analysis		3-1-0-4	Jayanthi Sivaswamy + Anil Kumar V
ECE431		Signal Detection and Estimation Theory		3-1-0-4	Sachin Chaudhari

ECE434	Network Theory	3-1-0-4	K R Sarma		
ECE446	Speech Systems	3-1-0-4	Suryakanth VG		
Level 2					
CSE578	Computer Vision	3-1-0-4	Anoop Namboodiri		
VLSI & Embedded Systems Stream					
Level 1					
ECE434	Network Theory	3-1-0-4	K R Sarma		
ECE465	VLSI Architectures	3-1-0-4	Govind Krishnan		
Level 2					
CSE422	Advanced Computer Architecture Prerequisite: Computer System Organization	3-1-0-4	Govindarajulu R		
Robotics Stream					
Level 1					
ECE452	Intro to Robotics: Mechanics & Control	3-1-0-4	Abhishek Sarkar		
Level 2					
CSE578	Computer Vision	3-1-0-4	Anoop Namboodiri		
CSE471	Statistical Methods in AI	3-1-0-4	Naresh Manwani		
B.Tech III year II Semester – CND					
Pr	CS	CSE481	Optimization Methods	3-1-0-4	Sujit Gujar
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CNS	SCI438	Electromagnetism and Optics	3-1-0-4	Prabhakar B
Pr	CNS	CSE492	CSE-Honours Project II	0-0-8-4	
Pr	CNS		CNS Elective	3-1-0-4	
Pr	CS		CS Elective	3-1-0-4	
			CCNSB Seminar	0 Credits	Vinod Palakkad
Total				15-5-8-24	
Electives for CND-3 and CND-4					
SCI652		Advanced Bioinformatics	3-1-0-4	Nita Parekh	
SCI 760		Computer Aided Drug Design	3-1-0-4	Punnagai Munusami	
SCI491		Nonlinear Dynamics	3-1-0-4	Vinod Palakkad	
SCI719		Principles and Techniques of Instrumental Analysis	3-1-0-4	Tapan Kumar Sau	
B.Tech III year II Semester – CLD:					
			Humanities Elective	3-0-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr			CL-Elective	3-1-0-4	
Pr	CS	CSE573	NLP Applications	3-1-0-4	Manish Shrivastava
Pr	CS		CS Elective	3-1-0-4	
In	CS	CSE492	CSE-Honours Project II	0-0-8-4	
Total				18-5-0-24	
Electives for CLD Students					
CLG452		Linguistic Data 2: Collection & Modeling	3-0-0-4	TBD - LTRC	
CSE974		Topics in Information Retrieval	3-1-0-4	Manoj Ch + Manish Shrivastava	
CLG541		Grammar Formalisms	3-1-0-4	Soma Paul	
B.Tech III year II Semester – CHD:					
		CS Bouquet Core	3-1-0-4		
		Elective from CS	3-1-0-4		
		Elective from Humanities	3-0-0-4		
		Humanities Sub-Stream Course II	3-0-0-4		
HSS571		Independent Study (EH)-(2Cr)	3-0-0-4		
HSS591		Confluence Projects-(Honours)-I	0-0-8-4		

Total		21-3-0-26	
CHD Stream Electives:			
HSS423	Classical Text Reading II: Greek Thought	3-1-0-4	Juan Pablo Sanchez
HSS424	Classic Text Reading IV: Research Specific	3-1-0-4	CEH Faculty
B.Tech III year II Semester – BSD:			
CES331	Estimating and Costing	3-1-0-4	Supriya Mohanty
CEB492	CE-Honours Project-II	0-0-8-4	
	Stream Elective	3-1-0-4	
	CE Elective	3-1-0-4	
	CS Elective	3-1-0-4	
	Humanities Elective	3-1-0-4	
Total		15-5-8-24	
BSD Stream Electives			
CEW511	Irrigation Engineering	3-1-0-4	Rehana Shaik
CEB413	Heat, Ventilation & Air Condition (HVAC)	3-1-0-4	Shivraj Dhaka
B.Tech IV year II semester – CSE:			
Pr	CS	Bouquet Core (*)	3-1-0-4
		Elective (CS / Free)	3-1-0-4
		Elective (CS / Free)	3-1-0-4
OT	[+]	Science/Maths/Humanities/Engg	3-1-0-4
OT	[+]	Science/Maths/Humanities/Engg	3-1-0-4
Total		15-5-0-20	
B.Tech IV year II semester - CSD:			
Pr	CS	Bouquet Core (*)	3-1-0-4
OT	[+]	Science/Maths/Humanities/Engg	3-1-0-4
OT	[+]	Science/Maths/Humanities/Engg	3-1-0-4
		Elective (CS / Free)	3-1-0-4
Pr	CS	Research Stream/CS Course	3-1-0-4
	CSE494	CSE-Honours Project IV	0-0-8-4
Total		18-5-0-24	
Lateral Entry III year II semester - CSD:			
	CSE494	Honours Project IV	0-0-8-4
Pr	CS	Bouquet Core (*)	3-1-0-4
Pr	CS	Bouquet Core (*)	3-1-0-4
Pr	CS	Research Stream Elective	3-1-0-4
		CS Elective	3-1-0-4
OT	[+]	Science/Maths/Humanities/Engg	3-1-0-4
Total		15-5-8-24	
B.Tech IV year II Semester – ECE:			
O	[+]	Science/Maths/Humanities	3-1-0-4
OT	[+]	Science/Maths/Humanities	3-1-0-4
Pr	EC	EC Elective	3-1-0-4
Pr	EC	EC Elective	3-1-0-4
		Free Elective	3-1-0-4
Total		15-5-0-20	
B.Tech IV year II Semester – ECD:			
OT	[+]	Science/Maths/Humanities	3-1-0-4
OT	[+]	Science/Maths/Humanities	3-1-0-4
Pr	EC	EC Elective	3-1-0-4
Pr	EC	EC Elective	3-1-0-4
		Free Elective	3-1-0-4

		ECE494	ECE-Honours Project IV	0-0-8-4	Total 15-5-8-24
B.Tech IV year II Semester – CND					
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CNS	SCI473	CNS-Honours Project IV	0-0-8-4	
Pr	CNS		CNS Elective	3-1-0-4	
OT	[+]		CNS Elective	3-1-0-4	
	EC/ EG		Engg Elective	3-1-0-4	
			Free Elective	3-1-0-4	
		SCI400	CCNSB Seminar	0 Credits	
Total 15-5-8-24					
B.Tech IV year II Semester - CLD					
OT	[+]		Humanities Elective	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr	??		CL-Elective	3-1-0-4	
Pr	CS		CS Elective	3-1-0-4	
In	CS	CSE391	Semester Project (4Cr)	0-0-8-4	
Total 12-4-8-20					
B.Tech IV year II Semester – CHD					
			CS Bouquet Core	3-1-0-4	
			Elective from CS	3-1-0-4	
			Elective from Humanities	3-1-0-4	
			Humanities Sub-Stream Course IV	3-1-0-4	
		HSS691	Confluence Projects-(Honours)-III	0-0-8-4	
Total 12-4-8-20					
B.Tech IV year II Semester – BSD:					
Pr	CE		CE Elective	3-1-0-4	
Pr	CE		Stream Elective	3-1-0-4	
Pr	CE		CE-Honours Project-4	3-1-0-4	
In	MA		Mathematics Elective	3-1-0-4	
In	HS		Humanities Elective	3-1-0-4	
Total 15-5-8-24					
BSD Stream Electives					
CEW511			Irrigation Engineering	3-1-0-4	Rehana Shaik
CEB413			Heat, Ventilation & Air Condition (HVAC)	3-1-0-4	Shivraj Dhaka
NOTE: All 4th year B.Tech students are informed to check their graduate/course requirements before registering your last semester.					
PG Programmes					
M.Tech CSE I Year II Semester: Registration Advisor:					
			Bouquet core	3-0-1-4	
			Bouquet core	3-0-1-4	
			Area electives	3-0-1-4	
			Area/Open elec/PG-Project/ /PG-Independent study	3-0-1-4	
Bouquet Systems Courses					
CSE441			Database Systems	3-1-0-4	Vikram Pudi
CSE461			Software Engineering	3-1-0-4	Vasudeva Varma
CSE431			Distributed Systems (Max 100 Students) Prerequisite: Operating Systems. Networks desirable.	3-1-0-4	Govindarajulu R
Bouquet Foundation Courses					
CSE471			Statistical Methods in AI	3-1-0-4	Naresh Manwani
CSE418			Principles of Information Security	3-1-0-4	Srinathan Kannan

CSE481	Optimization Methods	3-1-0-4	Sujit Gujar
M.Tech CSE - II year II semester			
	Area elective / Bouquet core	3-0-0-4	
	Area elective / Bouquet core	3-0-0-4	
	Area project (or)	8 Credits	
	Area /CS/Open elective	3-0-0-4	
	Area /CS/Open elective	3-0-0-4	
M.Tech CSIS – I year II semester:			
CSE538	System and Network Security	3-1-0-4	Ashok Kumar Das
CSE418	Principles of Information Security	3-1-0-4	Srinathan Kannan
	Bouquet core elective	3-0-1-4	
	Bouquet core elective	3-0-1-4	
Bouquet core Elective (Take 2 courses among the following 4 courses)			
CSE441	Database Systems	3-1-0-4	Vikram Pudi
CSE461	Software Engineering	3-1-0-4	Vasudeva Varma
CSE431	Distributed Systems (Max 100 Students) Prerequisite: Operating Systems. Networks desirable.	3-1-0-4	Govindarajulu R
CSE471	Statistical Methods in AI	3-1-0-4	Naresh Manwani
M.Tech CSIS – II year II Semester :			
CSE704	PG-Project (8 Cr)	8 credits	
CSE581	Information Security Audit and Assurance	3-0-0-4	Shatrunjay Rawat
	Bouquet/Area/C/IT Elective	3-0-0-4	
M.Tech VLSI & CE - II year II semester			
	PG-Project/Internship	12 cr	
	PG-Independent Study	4 cr	CVEST Faculty
M.Tech CASE - I year II semester:			
CSE604	Computing Tools	3-1-0-4	Suryakanth VG
CES611	Structural Dynamics	3-1-0-4	Pradeep Kumar R
	SE Elective	3-1-0-4	
	SE Elective / CASE Project	3-1-0-4	
Electives for I year M.Tech CASE			
CES612	Advanced Structural Analysis	3-1-0-4	Venkateswarlu M
CEF631	Foundation Engineering & Design	3-1-0-4	Supriya Mohanty
CEW511	Irrigation Engineering	3-1-0-4	Rehana Shaik
CEB413	Heat, Ventilation & Air Condition (HVAC)	3-1-0-4	Shivraj Dhaka
CES771	CASE Project	4 credits	
	Any BS/SI/CS Elective		
M.Tech CASE - II year II Semester			
	Elective	3-1-0-4	
	Elective	3-1-0-4	
	Elective	3-1-0-4	
	Elective	3-1-0-4	
Electives for II year M.Tech CASE			
CES772/ CES774	CASE Project	8/16 credits	
	Any BS/SI/CS Elective	3-1-0-4	
M.Tech Bioinformatics I year II semester:			
CSE604	Computing Tools	3-1-0-4	Suryakanth VG
SCI652	Advanced Bioinformatics	3-1-0-4	Nita Parekh
SCI433/633	Modeling and Simulations	3-0-1-4	Deva Priyakumar
SCI760	Computer Aided Drug Design	3-1-0-4	Punnagai Munusami
	Domain/IT elective	3-1-0-4	

M.Tech Bioinformatics II year II Semester:			
SCI400	CCNSB Seminar	0 Cr	Vinod Palakkad
SCI652	Advanced Bioinformatics	3-1-0-4	Nita Parekh
SCIXXX	Project (Not compulsory, if 4 credits done in III Semester)	4/8 Cr	
SCI760	Computer Aided Drug Design	3-1-0-4	Punnagai Munusami
	Domain/IT elective	3-1-0-4	
NOTE: All 2nd year M.Tech students are informed to check their graduate requirements before registering to your last semester.			
MS by Research in CL - II year II Semester			
	MS Thesis	0-0-36-12	
* Flexi core			
Electives			
CSE441	Database Systems	3-1-0-4	Vikram Pudi
CSE461	Software Engineering	3-1-0-4	Vasudeva Varma
CSE431	Distributed Systems (Max 100 Students) Prerequisite: Operating Systems. Networks desirable.	3-1-0-4	Govindarajulu R
CSE418	Principles of Information Security	3-1-0-4	Srinathan Kannan
CSE481	Optimization Methods	3-1-0-4	Sujit Gujar
CSE471	Statistical Methods in AI	3-1-0-4	Naresh Manwani
CLG541	Grammar Formalisms	3-1-0-4	Soma Paul
CLG452	Linguistic Data 2: Collection & Modeling	3-0-0-4	TBD – LTRC
CSE974	Topics in Information Retrieval	3-1-0-4	Manoj Ch + Manish Shrivastava
ECE439	Error Correcting Codes	3-1-0-4	Prasad Krishnan
ECE452	Intro to Robotics: Mechanics & Control	3-1-0-4	Abhishek Sarkar
CSE563	Internals of Application Servers	3-1-0-4	Ramesh Loganathan
ECE442	Time Frequency Analysis	3-1-0-4	Jayanthi Sivaswamy + Anil Kumar V
CSE593	Advanced topics in Game Theory	3-1-0-4	Ganesh Iyer
CSE578	Computer Vision	3-1-0-4	Anoop Namboodiri
ECE446	Speech Systems	3-1-0-4	Suryakanth VG
CSE545	Advances in Data Mining	3-1-0-4	Kamal Karlapalem
ECE431	Signal Detection and Estimation Theory	3-1-0-4	Sachin Choudhari
ECE434	Network Theory	3-1-0-4	KR Sarma
ECE465	VLSI Architectures	3-1-0-4	Govind Krishnan
CSE422	Advanced Computer Architecture Prerequisite: Computer System Organization	3-1-0-4	Govindarajulu R
CSE486	Intro to Neural & Cognitive Modeling (Max:30)	3-1-0-4	Bapi Raju S
CSE538	System and Network Security	3-1-0-4	Ashok Kumar Das
CSE566	e-Governance (for UG(3/4 yr) & PG students only – Max:45)	3-1-0-4	Harish P Iyer
CSE581	Information Security Audit and Assurance	3-0-0-4	Shatrunjay Rawat
CLG422	Computational Linguistics 2	3-0-1-4	Radhika M + Soma Paul
CSE573	NLP Applications	3-0-2-4	Manish Shrivastava
CSE569	Software Foundations	3-1-0-4	Venkatesh Choppella
CSE567	Usability Engineering	3-1-0-4	Priyanka Srivastava
CSE586	Cognitive Neuroscience	3-1-0-4	Kavita Vemuri
Science Electives (Selection randomly based on student preferences) Maximum no. of students for the following courses is given in brackets			
SCI341	General & Structural Chemistry (100) (a) First-come-first serve registration (b) 4 th year students get preference (c) interview, in case of over-subscription.	3-1-0-4	Abhijit Mitra

SCI372	Science Lab II (5-10) Selection through interview by the faculty	0-1-4-4	Tapan Kumar Sau + Prabhakar B
SCI347	Select topics in Physical Chemistry (20)	3-1-0-4	Harjinder Singh
SCI433/633	Modeling and Simulations (20)	3-1-0-4	Deva Priyakumar
SCI 760	Computer Aided Drug Design (20)	3-1-0-4	Punnagai Munusami
SCI438	Electromagnetism and Optics (20)	3-1-0-4	Prabhakar B
SCI491	Nonlinear Dynamics (20)	3-1-0-4	Vinod Palakkad
SCI719	Principles and Techniques of Instrumental Analysis (20)	3-1-0-4	Tapan Kumar Sau
Engineering Electives (Selection randomly based on student preferences) Maximum no. of students for the following courses is given in brackets			
CEG461	Remote Sensing (35)	3-1-0-4	RC Prasad
CES442	Disaster Management (40)	3-1-0-4	Neelima Satyam
CEG511	Principles and Practices of Organic Farming (50)	3-1-0-4	Shyam Sunder Reddy
Humanities Electives (Selection Randomly based on student preferences) Maximum no. of students for the following is given in brackets			
HSS423	Classical Text Reading II: Greek Thought Note: This elective is for UG3 EHD - others can register with faculty consent only.	3-1-0-4	Juan Pablo Sanchez
HSS424	Classic Text Reading IV: Research Specific Note: This elective is for UG3 EHD - others can register with faculty consent only.	3-1-0-4	CEH Faculty
HSS481/482	Digital Humanities Project Note: Students can register with faculty consent only	2 or 4 credits	CEH Faculty
LAN318	Readings from Hindi Literature (40)	3-1-0-4	Harjinder Singh
HSS442	The Greek legacy (40)	3-1-0-4	Juan Pablo Sanchez
HSS337	Comprehension of Indian Music (40)	3-1-0-4	TK Saroja
HSS316	Introduction to Philosophy: God, Knowledge and Consciousness (40)	3-1-0-4	R Venkata Raghavan
HSS344	Creative Writing and Literary Appreciation in Hindi (15)	3-1-0-4	Nand Kishore Acharya
HSS347a	Introduction to Gender Studies (40)	3-1-0-4	Tejaswini Madhabushi
	Critical Thinking (40)	3-1-0-4	Jolly Thomas
	The State in Colonial India (40)	3-1-0-4	Aniket Alam
	Literature –American Classics (40)	3-1-0-4	Aruna Chaluvadi
	Language, Mind and Society (40)	3-1-0-4	Aditi Mukherji + Dipti M Sharma
Mathematics Electives (Selection randomly based on student preferences) Maximum no. of students for the following courses is: 50 each			
IMA304	Linear Algebra	3-1-0-4	Indranil Chakrabarthy
IMA301	Functional Analysis	3-1-0-4	Lakshmi Burra
IMA309	Vector Calculus	3-1-0-4	C Mukku

Date: 05.12.2016

Sd/-
Dean (Academics)