

UG Programmes

B.Tech I year II Semester – CSE&CSD

CD	AD	CNO	CName	Credits	Faculty
In	MA	IMA102	Mathematics II	3-1-0-4	CN Kaul + Indranil
In	CS	ICS103	Data Structures	3-1-3-5	K Kothapalli + Vikram Pudi
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
In	EC	IEC103	Basic Electronic Circuits	3-1-3-5	Shubhajit Roy (L)+ Vinay Kumar Mittal (Lab)
In	CS	ICS105	IT Workshop II	2-0-3-3	Vikram Pudi
In	HS	IHS132	HSS Skills 2	2-0-0-2	CEH Lecturers
In	HS	IHS142	English 2 (Optional)	2-0-0-2	A.Giridhar Rao
Total				16-6-9-23	

B.Tech I year II Semester - ECE & ECD

In	MA	IMA102	Mathematics II	3-1-0-4	CN Kaul + Indranil
In	CS	ICS103	Data Structures	3-1-3-5	K Kothapalli + Vikram Pudi
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
In	EC	IEC103	Basic Electronic Circuits	3-1-3-5	Shubhajit Roy (L)+ Vinay Kumar Mittal (Lab)
In	EC	IEC104	Electronics Workshop I (H2)	1-0-4-2	Vijaya Sankara Rao + Vinay Kumar Mittal
In	HS	IHS132	HSS Skills 2	2-0-0-2	CEH Lecturers
In	HS	IHS142	English 2 (Optional)	2-0-0-2	A.Giridhar Rao
Total				15-4-10-22	

B.Tech I year II Semester - CND

In	MA	IMA102	Mathematics II	3-1-0-4	CN Kaul + Indranil
In	CS	ICS103	Data Structures	3-1-3-5	K Kothapalli + Vikram Pudi
In	CS	ICS105	IT Workshop II	2-0-3-3	Vikram Pudi
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
In	HS	IHS132	HSS Skills 2	2-0-0-2	CEH Lecturers
PR	SC	SCI341	General & Structural Chemistry	3-1-0-4	Abhijit Mitra + Harjinder Singh
PR	CNS	SCI320	Intro. to Biology	3-1-0-4	A Rameshwar
In	HS	IHS142	English 2 (Optional)	2-0-0-2	A.Giridhar Rao
Total				19-5-6-26	

B.Tech I year II Semester - CLD

In	MA	IMA102	Mathematics II	3-1-0-4	CN Kaul + Indranil
In	CS	ICS103	Data Structures	3-1-3-5	K Kothapalli + Vikram Pudi
In	CS	ICS105	IT Workshop II	2-0-3-3	Vikram Pudi
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
Pr	HS	HS5093	Linguistics 2: Language & Society	3-0-0-4	Dipti M Sharma + Lakshmi Bai
In	HS	IHS132	HSS Skills 2	2-0-0-2	CEH Lecturers
In	HS	IHS142	English 2 (Optional)	2-0-0-2	A.Giridhar Rao
Total				16-4-6-22	

B.Tech I year II Semester - EHD

In	MA	IMA102	Mathematics II	3-1-0-4	CN Kaul + Indranil
In	CS	ICS103	Data Structures	3-1-3-5	K Kothapalli + Vikram Pudi
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
In	CS	ICS105	IT Workshop II	2-0-3-3	Vikram Pudi
		IHS132	HSS Skills 2	2-0-0-2	CEH Lecturers
		HSS200	Theoretical Humanities, Formalisms, & Digital Humanities	3-0-0-4	Pranav Vasishta + Rajesh Tavva
		HSS260	Society and Development	3-0-0-4	Nand Kishor Acharya + Harsh Satya
				Total	19-3-6-26

B.Tech II year II Semester – CSE&CSD

In	HS	IHS201	Intro to Humanities	3-1-0-4	Navjyoti Singh
Pr	CS	CSE311	Formal Methods	2-1-0-2	Kishore Kothapalli
In	HS	IHS152	Human Values II	0-2-0-2	Pradeep R (Coordinator)
In	EG	IEG201	(1) Engineering Systems(*)	3-1-0-4	Neelima Saytam + Vishal Garg + M.Krishna + Pradeep + Rajan
Pr	CS	CSE371	(2) Artificial Intelligence (*)	3-1-0-4	Prashanth Reddy M + Anoop + V.Varma
Pr	CS	CSE251	(3) Graphics (*)	2-1-0-3	Anoop
Pr	CS		(4) Bouquet Core (*)	3-1-0-4	
In	EC	IEC239	(5) Digital Signal Anal. & Appl. (*)	3-1-0-4	SP Kishore
In	CS	ICS251	(6) Computer Networks (*)	2-1-0-2	Bruhadeshwar
				Total	19-9-0-27

Notes:

- Intro to Humanities, Formal Methods, Human Values II are compulsory courses for all students in this semester.
- A student can take at most FIVE out of SIX courses (1-6 above).
- Courses with (*) can be flexibly scheduled. Students can take them in later semesters.
- Maximum credits a student can register in this semester is 27.

II.1 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.

Systems Courses

CSE441	Database Systems	3-1-0-4	P.Krishna Reddy
CSE461	Software Engineering	3-1-0-4	Kirti Garg
CSE431	Distributed Systems	3-1-0-4	R.Govindarajulu

Prerequisite: Operating Systems. Networks desirable.

Database Systems course is required for opting CDE research stream.

If you are interested in doing Honours or Dual Degree in Sciences:

You can take 1 or 2 of the following courses instead of AI or Graphics or Bouquet Core

For those with interest in chemistry:

SCI341: General & Structural Chemistry (including elementary QM)

For those with interest in biology

SCI320: Introduction to Biology A Rameshwar

For those with interest in physics/theoretical chemistry

SCI434: Statistical Mechanics M.Krishnan
(including 10 lectures on classical mechanics)

For those interested in experiments:

SCI372: Science Lab II Tapan Kumar Sau + Prabhakar B

If you are interested in doing Honours or Dual Degree in Humanities

You can take 1 or 2 of the following courses instead of AI or Graphics or Bouquet Core

HSS330 Aesthetics, Narrative & Design 3-0-0-4 Navjyoti Singh

HSS300 History of Ideas 3-0-0-4 PRK Rao

B.Tech II year II Semester ECE & ECD:

In	EG	IEG201	Engineering Systems	3-1-0-4	Neelima Saytam + Vishal Garg + M.Krishna + Pradeep + Rajan
Pr	EC	ECE335	Communication Theory I	3-1-0-4	KR Sarma
Pr	EC	ECE341	Digital Signal Processing	3-1-0-4	Anil Kumar Vuppala
Pr	EC	ECE339	ECE Lab	0-0-3-1	Anubha Gupta
Pr	EC	ECE361	Intro to VLSI *	3-1-0-4	Vijaya Sankara Rao
Pr	EC	ECE291	Electronics Workshop II	1-0-4-4	Rambabu Kalla (Coordinator) Fac:J.Sivaswamy+M.Krishna
In	HS	IHS201	Intro to Humanities	3-1-0-4	Navjyoti Singh
In	HS	IHS107	Human Values II	0-2-0-2	Pradeep R (Coordinator)
			Total	16-7-7-27	

B.Tech II year II Semester CND

In	HS	IHS201	Intro to Humanities	3-1-0-4	Navjyoti Singh
Pr	CS	CSE251	Graphics	2-1-0-3	Anoop
Pr	CS	CSE311	Formal Methods	2-1-0-2	Kishore Kothapalli
In	HS	IHS107	Human Values II	0-2-0-2	Pradeep R (Coordinator)
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
Pr	CNS	SCI432	Quantum Mechanics II	3-1-0-4	Harjinder Singh
Pr	CNS	SCI372	Science Lab II	0-1-4-4	Tapan Kumar Sau + Prabhakar B
Pr	CNS	SCI434	Statistical Mechanics	3-1-0-4	M. Krishnan
			Total	16-9-4-27	

B.Tech II year II Semester CLD

Pr	CS	CSE371	Artificial Intelligence	3-1-0-4	Prashanth Reddy M + Anoop + V.Varma
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
Pr	CS	CSE251	Graphics	2-1-0-3	Anoop
Pr	CS	CSE311	Formal Methods	2-1-0-2	Kishore Kothapalli
In	HS	IHS201	Intro to Humanities	3-1-0-4	Navjyoti Singh
In	HS	IHS107	Human Values II	0-2-0-2	Pradeep R (Coordinator)
In	CS	ICS251	Computer Networks	2-1-0-2	Bruhadeshwar
Pr	HS	CLG422	Computational Linguistics 2	3-1-0-4	Radhika M + Lakshmi Bai + Soma Paul
Total				18-9-0-25	

B.Tech II year II Semester EHD

Pr	CS	CSE371	Artificial Intelligence (*)	3-1-0-4	Prashanth Reddy M + Anoop + V.Varma
Pr	CS	CSE251	Graphics (*)	2-1-0-3	Anoop
Pr	CS	CSE311	Formal Methods	2-1-0-2	Kishore Kothapalli
In	CS	ICS104	Computer System Organization	3-1-0-4	Suresh Purini
In	HS	IHS107	Human Values II	0-2-0-2	Pradeep R (Coordinator)
In	CS	ICS251	Computer Networks	2-1-0-2	Bruhadeshwar
		HSS330	Aesthetics, Narrative & Design	3-0-0-4	Navjyoti Singh
		HSS300	History of Ideas	3-0-0-4	PRK Rao
		HSS341	Classical Language: Sanskrit I	3-0-0-2	ER Narayanan
Total				21-7-0-27	

B.Tech III year II Semester – CSE:

In	CS	CSE496	BTP I	3-0-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
OT	[+]		Inst Core/ Bouquet Core / Elective	3-1-0-4	
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	[+]		Inst Core/ Bouquet Core / Elective	3-1-0-4	
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	3-0-0-4	
Total				18-5-0-24	

Note: Based on the total credit requirements, CSE students can take appropriate elective.

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.

Systems Courses

CSE441	Database Systems	3-1-0-4	P.Krishna Reddy
CSE461	Software Engineering	3-1-0-4	Kirti Garg
CSE431	Distributed Systems	3-1-0-4	R.Govindarajulu

Prerequisite: Operating Systems. Networks desirable.

Foundation Courses

CSE418	Principles of Information Security	3-1-0-4	Ashok Kumar Das
CSE481	Optimization Methods	3-1-0-4	CV Jawahar

B.Tech III year II Semester – ECE :

OT	[+]	Science/Maths/Humanities	3-1-0-4		
Pr	EC	ECE337	Communication Networks*	3-1-0-4	Jayashree Ratnam
Pr	EC		ECE Elective	3-1-0-4	
OT	CS		ECE Elective	3-1-0-4	
In	EC	ECE496	BTP I	3-0-0-4	
			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	Jayashree Ratnam
Pr	EC		ECE Elective	3-1-0-4	
OT	EC		ECE Elective	3-1-0-4	
In	EC		Honours Project II	3-0-0-4	
			Total	15-4-0-20	

List of Bouquet ECE Electives

Out of the five 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.

Communication Stream

Level 1

ECE438	Wireless Communication	3-1-0-4	G.Rama Murthy
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Level 2

	Antennas and Propagation	3-1-0-4	Chakrapani B
	RF and Microwave Circuit Design	3-1-0-4	Syed Azeemuddin

Signal Processing Stream

Level 1

ECE445	Multirate Signal Processing	3-1-0-4	Anubha Gupta
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Level 2

ECE575	Medical Image Processing	3-1-0-4	Jayanthi Sivaswamy
ECE	Speech Technology	3-1-0-4	SVG
ECE449	Artificial Neural Networks	3-1-0-4	Yegnanarayana
CSE578	Computer Vision	3-1-0-4	PJN

VLSI & Embedded Systems Stream

Level 1

ECE465	VLSI Architectures	3-1-0-4	Shubhajit Roy
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Level 2

ECE566	Photonics	3-1-0-4	Syed Azeemuddin
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Robotics Stream

Level 1

ECE452 Intro to Robotics: Mechanics & Control 3-1-0-4 K.Madhava Krishna

Level 2

ECE449 Artificial Neural Networks 3-1-0-4 Yegnanarayana
CSE578 Computer Vision 3-1-0-4 PJN
ECE Advances in Robotics & Control 3-1-0-4 Rambabu Kalla +
E. Vijay Prakash

B.Tech III year II Semester – CND:

Pr CS Bouquet Core 3-1-0-4
Pr CS Bouquet Core 3-1-0-4
Pr CNS SCI432 Quantum Mechanics II 3-1-0-4 Harjinder Singh
Pr CNS Honours Project 2 (CS) 0-8-0-4
Pr CNS CNS Elective 3-1-0-4
Pr CS CS Elective 3-1-0-4
Total 18-6-0-23

B.Tech III year II Semester – CLD:

In HS IHS201 Intro to Humanities 3-1-0-4 Navjyoti Singh
Pr CS Bouquet Core 3-1-0-4
Pr CL-Elective 3-1-0-4
Pr CS Natural Language Application 3-1-0-4 TBD
Pr CS CS Elective 3-1-0-4
In CS Hons Project 3-0-0-4
Total 18-5-0-24

Electives

CLG452 Linguistic Data 2: Collection & Modeling 3-0-0-4 Radhika M + Soma Paul
CSE474 Information Retrieval and Extraction 3-1-0-4 Vasudeva Varma
Topics in Speech Systems: Text to Speech Conversion 3-0-0-4 Peri Bhaskar Rao + SP Kishore
CLG512 Natural Language Semantics 3-1-0-4 Soma Paul

B.Tech III year II Semester – EHD:

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 3-0-0-4 CEH Faculty
HSS591 Confluence Projects 4-0-0-4 CEH Faculty
Total 19-2-0-24

EHD Steam Elective:

HSS423 Classical Text Reading II: Greek, Arabic, Persian & Chinese 3-1-0-4 CEH Faculty

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	Honours Project IV	3-0-0-4
Total			18-5-0-24

B.Tech IV year II Semester – ECE:

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
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
		Honours Project IV	3-0-0-4
Total			18-5-0-24

B.Tech IV year II Semester – CND

In	HS	IHS201	Intro to Humanities	3-1-0-4
Pr	CS		Bouquet Core	3-1-0-4
Pr	CNS		Honours Project IV (CNS)	3-1-0-4
OT	[+]		Open Elective	3-1-0-4
EC/EG			EC/EG Elective	3-1-0-4
Total			15-6-0-20	

Navjyoti Singh

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	Project	3-0-0-4
Total			15-4-0-20

Post BSc III year II Semester:

CSE251	Graphics (*)	2-1-0-3
CSE461	Software Engineering	3-1-0-4
	Elective [Proj/Domain/IT]	3-1-0-4
	Humanities Elective	3-1-0-4
	General Seminars	0-2-0-2

NOTE: ALL THE 4th YEAR STUDENTS ARE INFORMED TO CHECK THEIR CREDIT REQUIREMENTS FOR THEIR GRADUATION, BEFORE REGISTRATION.

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	
	Bouquet core /Area elective/ Open elective/Other elective/ Project/Independent study	3-0-1-4	
CSE801	Institute Seminar	1-0-0-1 (P/F)	

Bouquet Systems Courses

CSE441	Database Systems	3-1-0-4	P.Krishna Reddy
CSE461	Software Engineering	3-1-0-4	Kirti Garg
CSE431	Distributed Systems	3-1-0-4	R. Govindarajulu
	Prerequisite: Operating Systems. Networks desirable.		

Bouquet Foundation Courses

CSE418	Principles of Information Security	3-1-0-4	Ashok Kumar Das
CSE481	Optimization Methods	3-1-0-4	CV Jawahar

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 / Other elective	3-0-0-4	
Area /CS/Open elective/ Other elective	3-0-0-4	

M.Tech CSIS – I year II semester:

CS5470	System and Network Security	3-1-0-4	Ashok Kumar Das
CSE418	Principles of Information Security	3-1-0-4	Ashok Kumar Das
	Bouquet core elective	3-0-1-4	
	Bouquet core elective	3-0-1-4	
CSE801	Institute Seminar	1-0-0-1 (P/F)	

Bouquet core Elective (Take 2 courses among the following 3 courses)

CSE441	Database Systems	3-1-0-4	P.Krishna Reddy
CSE461	Software Engineering	3-1-0-4	Kirti Garg
CSE431	Distributed Systems	3-1-0-4	R.Govindarajulu
	Prerequisite: Operating Systems. Networks desirable.		

M.Tech CSIS – II year II Semester :

	Project II	8 credits	
CS5476	Information Security Audit and Assurance	3-0-0-4	Shatrunjay Rawat
	Bouquet/Area/C/IT Elective	3-0-0-4	

M.Tech VLSI & CE - I year II semester

ECE361	Introduction to VLSI	3-1-0-4	P.Vijayasankara Rao
ECE465	VLSI Architectures	3-1-0-4	Shubhajit Roy
CSE801	Institute Seminar	1-0-0-1 (P/F)	
	Elective 1	3-1-0-4	
	Elective 2	3-1-0-4	

M.Tech CASE - I year II semester: :

CS3010	Computing Tools	3-1-0-4	Muluaalem Teku
	SE/CS Elective	3-1-0-4	
	SE Elective	3-1-0-4	
	SE Elective / Project	3-1-0-4	

Electives for I year M.Tech CASE

CEA621	Finite Element Method	3-1-0-4	Dilip Kumar
CES612	Advanced Structural Analysis	3-1-0-4	M.Venkateshwarlu
CES641	Earthquake Engineering	3-1-0-4	Pradeep Kumar
CES773/CES774	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

CES773/CES774	CASE Project	4/8 credits	
CES626	Advanced Steel Design	3-1-0-4	Rajaram Ch
CES622	Foundations for Offshore Structures	3-1-0-4	Neelima Satyam
CGE632	Design of Pre-stressed Concrete Structures	3-1-0-4	M.Venkateshwarlu
	Any BS/SI/CS Elective	3-1-0-4	

M.Tech Bioinformatics I year II semester:

CS3010	Computing Tools	3-1-0-4	Muluaalem Teku
SCI551	Intro to Bioinformatics	3-1-0-4	Nita Parekh
SCI433/633	Modeling and Simulations	3-0-1-4	Deva Priyakumar + Prabhakar B
SCI760	Computer Aided Drug Design	3-1-0-4	Deva Priyakumar
	Domain / IT Elective	3-1-0-4	

M.Tech Bioinformatics II year II Semester :

SCI XXX	CCNSB Seminar	0	
SCI XXX	Project	8 Credits	
SCI760	Computer Aided Drug Design	3-1-0-4	Deva Priyakumar
	Domain /IT elective	3-1-0-4	

Electives M.Tech/MS/PhD in Bioinformatics

SCI720	CNS/Bio Seminars	2 credits	
SCI432	Quantum Mechanics II	3-1-0-4	Harjinder Singh
SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
SCI435	Statistical Mechanics	3-1-0-4	M. Krishnan
SCI433/633	Modeling and Simulations	3-0-1-4	Deva Priyakumar + Prabhakar B

M.Tech CL - I year II semester:

CSE573	NLP Applications	3-0-2-4	TBD
CLG422	Computational Linguistics 2	3-0-0-4	Radhika M+Lakshmi Bai + Soma Paul
CLG412	Linguistics 2: Language & Society	3-0-0-4	Dipti M Sharma + Lakshmi Bai
	Elective (Computer Science)	3-0-0-4	
	Elective	3-0-1-4	

M.Tech CL - II Year II Semester:

M.Tech Project	0-0-36-12
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MS by Research in CL - I year II Semester:

CSE573	NLP Applications	3-0-2-4	TBD
CLG422	Computational Linguistics 2	3-0-1-4	Radhika M+Lakshmi Bai + Soma Paul
	CS Elective	3-0-1-4	
	Stream/Breadth Elective	3-0-1-4	

II year II Semester

MS Thesis	0-0-36-12
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PhD CL - I year II semester :**Stream I (CS, Science and Maths):**

CSE573	NLP Applications	3-0-2-4	TBD
CLG422	Computational Linguistics-2	3-0-0-4	Radhika M+Lakshmi Bai + Soma Paul
	Elective (Computer Science)	3-0-0-4	
	Project	0-0-6-2	

Stream II (Language and Linguistics):

CLG612	Basic Maths 2	3-0-0-4	Shanti Karlapalem
CLG422	Computational Linguistics 2	3-0-0-4	Radhika M+Lakshmi Bai + Soma Paul
CLG662	Computer and Scripting 2	3-0-2-4	TBD

*** Flexi core**

Electives

CSE Bouquet Core courses as Electives

CSE441	Database Systems	3-1-0-4	P. Krishna Reddy
CSE461	Software Engineering	3-1-0-4	Kirti Garg
CSE431	Distributed Systems	3-1-0-4	R.Govindarajulu
	Prerequisite: Operating Systems. Networks desirable.		
CSE318	Principles of Information Security	3-1-0-4	Ashok Kumar Das
CSE481	Optimization Methods	3-1-0-4	CV Jawahar

ECE Bouquet Core courses as Electives

ECE438	Wireless Communication	3-1-0-4	G.Rama Murthy
	Antennas and Propagation	3-1-0-4	Chakrapani B
	RF and Microwave Circuit Design	3-1-0-4	Syed Azeemuddin
ECE445	Multirate Signal Processing	3-1-0-4	Anubha Gupta
ECE575	Medical Image Processing	3-1-0-4	Jayanthi Sivaswamy
ECE	Speech Technology	3-1-0-4	SVG
ECE449	Artificial Neural Networks	3-1-0-4	Yegnanarayana
CSE578	Computer Vision	3-1-0-4	PJN
ECE465	VLSI Architectures	3-1-0-4	Shubhajit Roy
ECE566	Photonics	3-1-0-4	Syed Azeemuddin
ECE452	Intro to Robotics: Mechanics & Control	3-1-0-4	K.Madhava Krishna
ECE	Advances in Robotics & Control	3-1-0-4	Rambabu Kalla + E Vijay Prakash
ECE	Optical Communication and Networks	3-1-0-4	Jayashree Ratnam

Other Electives

CSE573	NLP Applications	3-0-2-4	TBD
CLG422	Computational Linguistics 2	3-0-1-4	Radhika M+Lakshmi Bai + Soma Paul
CSE474	Information Retrieval and Extraction	3-1-0-4	Vasudeva Varma
CSE541	Advances in Database Systems	3-1-0-4	Kamal Karlapalem
CSE538	System and Network Security	3-1-0-4	Ashok Kumar Das
	Information Security Audit & Assurance	3-1-0-4	Shatrunjay Rawat

	System and Resource Virtualization	3-1-0-4	Prasad Saripalli
CLG512	Natural Language Semantics	3-1-0-4	Soma Paul
CLG452	Linguistic Data 2: Collection & Modeling	3-0-0-4	Radhika M + Soma Paul
CSE563	Internals of Application Servers	3-1-0-4	Ramesh Loganathan
CSE503	Concurrent Data Structures (Max. 20 Students)	3-1-0-4	R.Govindarajulu
CSE962	Topics in Software Engineering	3-1-0-4	Raghu Reddy
	Topics in Speech Systems: Text to Speech Conversion	3-0-0-4	Peri Bhaskar Rao + SP Kishore
	Topics in Speech Processing: Audio Information Retrieval	3-0-0-4	SP Kishore + SVG
	Classical & Quantum Information Security	3-1-0-4	Srinathan + Indranil
	Semantics of Programming Languages	3-1-0-4	Venkatesh Ch
	Algorithms in Bioinformatics	3-1-0-4	Asish Mukhopadhyay
	Usability Engineering	3-1-0-4	Amitash Ojha
ECE662	Embedded Systems II (Prerequisite: Embedded Systems I)	3-1-0-4	Syed Azeemuddin
	Engineering with a purpose	3-1-0-4	Kavita Vemuri (Coordinator) + other 6 faculty

Science Electives (Selection randomly based on student preferences)

Maximum no. of students for the following courses is give in brackets

SCI341	General & Structural Chemistry (50)	3-1-0-4	Abhijit Mitra + Harjinder Singh
SCI320	Intro. to Biology (25)	3-1-0-4	A Rameshwar
SCI436	Statistical Mechanics (10)	3-1-0-4	M.Krishnan
SCI372	Science Lab II (5)	0-1-4-4	Tapan Kumar Sau + Prabhakar B
SCI432	Quantum Mechanics II (25)	3-1-0-4	Harjinder Singh
SCI761	Topics in Nanosciences (25)	3-1-0-4	Tapan Kumar Sau
SCI433/633	Modeling and Simulations (25)	3-0-1-4	Deva Priyakumar + Prabhakar B
SCI760	Computer Aided Drug Design (20)	3-1-0-4	Deva Priyakumar
	General Theory of Relativity (no limit)	3-1-0-4	C Mukku
	Topics in Theoretical Physics (no limit)	3-1-0-4	M Krishnan

Engineering Electives (Selection randomly based on student preferences)

Maximum no. of students for the following courses is: 35 each

CEG461	Remote Sensing	3-1-0-4	RC Prasad
CEG422	Green Buildings	3-1-0-4	Vishal Garg
CEG	Earthquake Engg & Disaster Mgmt	3-1-0-4	Pradeep R
CEG	Technology Entrepreneurship	3-1-0-4	Prashanth Meka + Satish Madira + Kalyan Manyam + Baba Prasad

Humanities (Selection Randomly based on student preferences)

Maximum no. of students for the following courses is: 30 each

HSS311	Philosophy of Mind (Pre-requisite: Intro to Cognitive Science or faculty consent)	3-1-0-4	Amitash Ojha
HSS461	Gandhian Thought	3-1-0-4	Nand Kishor Acharya
HSS355	Information Technology & Corporate Strategy	3-1-0-4	Baba Prasad
HSS315	Philosophical Discussions on Human Desires	3-1-0-4	A Raghu Rama Raju
HSS324	Introduction to Vedic Darshan	3-1-0-4	Shatrunjay Rawat
HSS358	Understanding Work and Life (English)	3-1-0-4	Devansh Mittal
HSS358	Understanding Work and Life (Telugu)	3-1-0-4	Pradeep R
HSS482	Digital Humanities Projects (Max 5 students under each faculty)	3-1-0-4	CEH Faculty
HSS423	Classical Text Reading II: Greek, Arabic, Persian & Chinese (Limit up to 20 UG students)	3-1-0-4	CEH Faculty
HSS353	Education and Self	3-1-0-4	Tejinder Walia + Soma Paul

Mathematics Electives (Selection randomly based on student preferences)

Maximum no. of students for the following courses is: 50 each

Operations Research-2	3-1-0-4	CN Kaul
Linear Algebra	3-1-0-4	Rajat Tandon
Differential Equations	3-1-0-4	Shobha Oruganti

Date: 18.12.2012

Sd/-
Dean (Academics)