

# PG PROGRAMMES

26.12.2011

## M.Tech CSE I Year II Semester: Registration Advisor: Dr. Vikram Pudi

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
Institute Seminar	1-0-0-1 (P/F)

### **Bouquet Systems Courses**

CSC441	Database Systems	3-1-0-4	P Krishna Reddy
CSC461	Software Engineering	3-1-0-4	Kirti Garg
CSC431	Distributed Systems	3-1-0-4	R.Govindarajulu

Prerequisite: Operating Systems. Networks desirable.

### **Bouquet Foundation Courses**

CSC318	Principles of Information Security	3-1-0-4	Kannan Srinathan
CSC481	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

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## M.Tech CSIS – I year II semester: Registration Advisor:

CS5470	System and Network Security	3-1-0-4	Ashok Kumar Das
CSC318	Principles of Information Security	3-1-0-4	Kannan Srinathan
	Bouquet core elective	3-0-1-4	
	Bouquet core elective	3-0-1-4	

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

CSC441	Database Systems	3-1-0-4	P Krishna Reddy
CSC461	Software Engineering	3-1-0-4	Kirti Garg
CSC431	Distributed Systems	3-1-0-4	R.Govindarajulu

Prerequisite: Operating Systems. Networks desirable.

## M.Tech CSIS – II year II Semester : Registration Advisor:

Project II	8 credits	
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	Syed Azeemuddin
	VLSI Architectures	3-1-0-4	Shubhajit Roy
	Elective 1	3-1-0-4	
	Elective 2	3-1-0-4	

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**M.Tech CASE - I year II semester: : Registration Advisor:**

CS3010	Computing Tools	3-1-0-4	Mulualem 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**

	Advanced Structural Analysis	3-1-0-4	Pradeep R
SE6401	Earthquake Engineering	3-1-0-4	Neelima Satyam
AM6201	Finite Element Method	3-1-0-4	Dilip Kumar + Pradeep R
	Theory of Elasticity	3-1-0-4	M. Venkateswarlu
SE7702	CASE Project	4/8 credits	
MA6401	Numerical Analysis	3-1-0-4	M. Sitaramayya
	Any Open Elective		

**M.Tech CASE - II year II Semester Registration Advisor:**

	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**

SE7702	CASE Project	4/8 Credits	
SE6503	Advanced Structural Design	3-1-0-4	M Venkateswarlu
GE6301	Foundation Engg. & Design	3-1-0-4	Neelima Satyam
	Advanced Steel Design	3-1-0-4	Chenna Rajaram + Pradeep R
MA6401	Numerical Analysis	3-1-0-4	M.Sitaramayya
	Any Open Elective	3-1-0-4	

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**M.Tech Bioinformatics I year II semester: Registration Advisor:**

	Preparatory course in Maths and Science	0 Credits	
CS3010	Computing Tools	3-1-0-4	Mulualem Teku
SCI651	Intro to Bioinformatics	3-1-0-4	Nita Parekh
SCI433/633	Modeling and Simulations	3-0-1-4	Prabhakar B + Harjinder Singh
SCI652	Advanced Bioinformatics	3-1-0-4	Nita Parekh
	Domain / IT Elective	3-1-0-4	

**M.Tech Bioinformatics II year II Semester : Registration Advisor:**

SCI XXX	CCNSB Seminar	0	
SCI XXX	Project	8 Credits	
SCI652	Advanced Bioinformatics	3-1-0-4	Nita Parekh
SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
	Domain elective	3-1-0-4	

**Electives M.Tech/MS/PhD in Bioinformatics**

SCI652	Advanced Bioinformatics	3-1-0-4	Nita Parekh
SCI720	CNS/Bio Seminars	2 credits	A. Rameshwar
SCI432	Quantum Mechanics II	3-1-0-4	C. Mukku
SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
SCI344	Organic Chemistry and BMSID	3-1-0-4	Abhijit Mitra + Deva Priyakumar + B.GopalKrishna
SCI434	Statistical Mechanics	3-1-0-4	M.Krishnan

**M.Tech CL - I year II semester: : Registration Advisor:**

CS5728	NLP Applications	3-0-2-4	Prashanth Reddy M
HS5091	Computational Linguistics 2	3-0-0-4	Radhika M + Lakshmi Bai
HS5093	Linguistics 2: Language & Society	3-0-0-4	Lakshmi Bai + Dipti M. Sharma
	Elective (Computer Science)	3-0-0-4	
	Elective	3-0-1-4	

**M.Tech CL - II Year II Semester: Registration Advisor:**

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

CS 5728	NLP Applications	3-0-2-4	Prashanth Reddy M
HS 5091	Computational Linguistics 2	3-0-1-4	Radhika M + Lakshmi Bai
	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 :Registration Advisor: Dr. Soma Paul****Stream I (CS, Science and Maths):**

CS5728	NLP Applications	3-0-2-4	Prashanth Reddy M
HS5091	Computational Linguistics-2	3-0-0-4	Radhika M + Lakshmi Bai
	Elective (Computer Science)	3-0-0-4	
	Project	0-0-6-2	

**Stream II (Language and Linguistics):**

MA3004	Basic Maths 2	3-0-0-4	Shanti Karlapalem
HS5091	Computational Linguistics 2	3-0-0-4	Radhika M + Lakshmi Bai
CS5003	Computer and Scripting 2	3-0-2-4	K.Silpa

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**\* Flexi core****Bouquet Core courses as Electives**

CSC441	Database Systems	3-1-0-4	P Krishna Reddy
CSC461	Software Engineering	3-1-0-4	Kirti Garg
CSC431	Distributed Systems Prerequisite: Operating Systems. Networks desirable.	3-1-0-4	R.Govindarajulu
CSC318	Principles of Information Security	3-1-0-4	Kannan Srinathan
CSC481	Optimization Methods	3-1-0-4	CV Jawahar

**Electives**

CS4731	Information Retrieval and Extraction	3-1-0-4	Vasudeva Varma + Prasad Pingali
ET6651	Design for Testability	3-1-0-4	M. Satyam
CS4772	Artificial Neural Networks	3-1-0-4	Yegnanarayana B
CS4740	Speech Technology	3-1-0-4	SP Kishore + SVG
CSE548	Multi Agent Systems	3-1-0-4	Kamal
CSE541	Advances in Database Systems	3-1-0-4	Kamal
ECE441	Adaptive Signal Processing	3-1-0-4	Anubha Gupta
HS5096	Linguistic Data 2	3-0-0-4	Soma Paul + Radhika M
CS4462	Internals of Application Servers	3-1-0-4	Ramesh Loganathan
CS5728	NLP Applications	3-0-2-4	Prashanth Reddy M
	Topics in Distributed Algorithms	3-1-0-4	Kishore Kothapali + K.Srinathan
	Computer Vision	3-1-0-4	PJN
	e-Governance	3-1-0-4	R.K.Bagga
	Topics in Wireless Security	3-1-0-4	Ashok Kumar Das
	Advanced Software Engineering	3-1-0-4	Raghu Reddy Y
	Topics in Software Engineering	3-1-0-4	Raghu Reddy Y
	Topics in Programming Languages	3-1-0-4	Venkatesh Ch
	Concurrent Data Structures	3-1-0-4	R. Govindarajulu
	Cognitive Neuroscience (Pre-requisite: Signal Processing, Image Processing, Intro to Cognitive Science)	3-1-0-4	Kavita Vemuri / PS Deb

Research Methodology	3-1-0-4	Harini + Fons Maes (Tilburg University)
Network Theory	3-1-0-4	K R Sarma
Wireless Communications	3-1-0-4	A Srinivas
Computational Electromagnetics	3-1-0-4	Chakrapani
VLSI Architecture	3-1-0-4	Shubhajit Roy
Photonics	3-1-0-4	Syed Azeemuddin
Intro to Robotics: Mechanics & Control	3-1-0-4	E.Vijay Prakash+ Madhav Krishna
A Course on Generalized Syntax	3-1-0-4	Dipti M Sharma + Soma Paul + Rajeev Sangal
Performance Modeling of Software Systems	3-1-0-4	Olivia Das, Ryerson University
Topics in Computational Geometry	3-1-0-4	Ananda Swarup Das
Embedded Systems II	3-1-0-4	Suresh Purini + Syed Azeemuddin

### **Humanities for UG3 and UG4 students**

HSS411	Philosophy of Mind (Pre-requisite: Intro to Cognitive Science or faculty consent)	3-1-0-4	Amitash Ojha
HSS461	Human Rights	3-1-0-4	Nand Kishore Acharya
HSS352	Technology in the Service of Society	3-1-0-4	Baba Prasad + Nagesh
HSS363	Dharma, Polity and Constitution of India	3-1-0-4	Pranav Vashishta
HSS322	Epistemology in Indian Philosophy	3-1-0-4	Srinivasa Guttal + Pranav Vashishta
HSS354	Understanding Work and Life	3-1-0-4	Pradeep Ramancharla + Rajeev Sangal + Devansh Mittal
HSS323	Introduction to Vedic Dharshan	3-1-0-4	Shatrunjay Rawat + Navjyoti Singh
	Agricultural Production Economics	3-1-0-4	Bhaskar Reddy

### **Science Electives**

SCI341	General & Structural Chemistry	3-1-0-4	Abhijit Mitra + Deva Priyakumar
SCI320	Intro. to Biology	3-1-0-4	A. Rameshwar
SCI344	Organic Chemistry and BMSID (Prerequisite: GSC or ABA of M2K11 courses)	3-1-0-4	Abhijit Mitra + Deva Priyakumar + B.GopalKrishna
SCI434	Statistical Mechanics	3-1-0-4	M.Krishnan
SCI372	Science Lab II	0-1-4-4	Tapan Kumar Sau + Prabhakar B

SCI432	Quantum Mechanics II	3-1-0-4	C. Mukku
SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
SCI433/633	Modeling and Simulations	3-0-1-4	Prabhakar B + Harjinder Singh

**Mathematics Electives**

MA6401	Numerical Analysis [50 students]	3-1-0-4	M. Sitaramayya
	Linear Programming [50 students]	3-1-0-4	M. Sitaramayya
	Linear Algebra [50 students]	3-1-0-4	Rajat Tandon

**Engineering Electives**

	Green Buildings	3-1-0-4	Vishal Garg
	Remote Sensing	3-1-0-4	KS Rajan
	Product Design and Engineering	3-1-0-4	Kavita Vemuri
	Principles & Practices of Organic Farming	3-1-0-4	G.Syamasundar Reddy

**Date: 13.12.2011**

Sd/-  
**Dean (Academics)**

Sd/-  
**Director**