

Course offerings in 2016-17 Semester II

Version 1 dated 5.12.2016

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 | IHS132/ IHS142 | 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 | IHS132/ IHS142 | 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 | IHS132/ IHS142 | 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 | IHS132/ IHS142 | 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 | ICS103 | Data Structures | 3-1-3-5 | Lini Thomas |
| 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 | CES115 | Strength of Materials Workshop | 3-1-0-4 | Swajit Singh Goud |
| In | HS | IHS132/ IHS142 | 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 | Human Sciences | 3-1-0-4 | Aniket Alam (Coordinator) |
| Pr | CS | CSE311 | Formal Methods | 2-1-0-2 | Kishore Kothapalli |
| In | HS | IHS152 | 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 | Kishore Kothapalli |
| In | HS | IHS152 | 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 |
| Pr | EC | ECE361 | Intro to VLSI * | 3-1-0-4 | Syed Azeemuddin |
| Pr | EC | ECE291 | Electronics Workshop II | 1-0-4-4 | Jayanthi Sivaswamy + Syed Azeemuddin |
| In | HS | IHS201 | 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 | 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 | Kishore Kothapalli |
| 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 | Kishore Kothapalli |
| In | HS | IHS201 | 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 | Kishore Kothapalli |
| 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 | Graphics | 2-1-0-3 | Avinash Sharma |
| 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 | Human Sciences | 3-1-0-4 | Aniket Alam (Coordinator) |
| Pr | BS | CEB111 | Building Services | 3-1-0-4 | Vishal Garg |
| Pr | BS | CEF211 | Foundation Engg & Design | 3-1-0-5 | Supriya Mohanty |
| Pr | BS | CEW212 | Hydraulics | 3-1-0-5 | Rehana Shaik |
| Total | | | | 17-8-4-27 | |
| 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 | |
| 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 | |
| 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 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 | |
| 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 |

| | | | | | |
|---|-----|--|-----------------------------|-----------|----------------------------------|
| Level 2 | | | | | |
| ECE446 | | Speech Systems | | 3-1-0-4 | Suryakanth VG |
| 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 | Deva Priyakumar |
| | | Nonlinear Dynamics | | 3-1-0-4 | Vinod Palakkad |
| 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 |
| | | 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 | Vishal Garg | |
| 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 | |
| | | HSS522 | 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 | Vishal Garg |
| NOTE: All 4 th 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 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 | |

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|---|---|-----------------|------------------|
| | 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: | | | |
| CS5470 | 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 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 | |
| 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 - II year II semester | | | |
| | PG-Project/Internship | 12 cr | |
| | PG-Independent Study | 4 cr | CVESF Faculty |
| M.Tech CASE - I year II semester: | | | |
| CS3010 | Computing Tools | 3-1-0-4 | Suryakanth VG |
| | SE/CS Elective | 3-1-0-4 | |
| | 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 | Vishal Garg |
| 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: | | | |
| CS3010 | Computing Tools | 3-1-0-4 | Suryakanth VG |
| SCI651 | Advanced Bioinformatics | 3-1-0-4 | Nita Parekh |
| SCI433/633 | Modeling and Simulations | 3-0-1-4 | Deva Priyakumar |
| SCI 760 | Computer Aided Drug Design | 3-1-0-4 | Deva Priyakumar |
| | Domain/IT elective | 3-1-0-4 | |
| M.Tech Bioinformatics II year II Semester: | | | |
| SCI400 | CCNSB Seminar | 0 Cr | Vinod Palakkad |
| SCI651 | Advanced Bioinformatics | 3-1-0-4 | Nita Parekh |

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|---|---|-----------|--------------------------------------|
| SCI XXX | Project (Not compulsory, if 4 credits done in III Semester) | 4/8 Cr | |
| SCI 760 | Computer Aided Drug Design | 3-1-0-4 | Deva Priyakumar |
| | 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 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 |
| | 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 | Game Theory for Computer Science | 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 |
| CS5470 | 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 |
| CS5476 | 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 |

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| SCI433/633 | Modeling and Simulations (20) | 3-1-0-4 | Deva Priyakumar |
| SCI 760 | Computer Aided Drug Design (20) | 3-1-0-4 | Deva Priyakumar |
| SCI438 | Electromagnetism and Optics (20) | 3-1-0-4 | Prabhakar B |
| | Nonlinear Dynamics (20) | 3-1-0-4 | Vinod Palakkad |
| 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 | TBD |
| 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 |
| | Readings in American Literature (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 |
| | Vector Calculus | 3-1-0-4 | C Mukku |

Date: 05.12.2016

Sd/-
Dean (Academics)