

Proposed Curriculum for B. Tech. (Computer Science and Engineering)

For 2014 Batch only

THIRD SEMESTER

| Sr. No. | Course | | Contact Hours | | | | Credits |
|---------|------------|---|---------------|---|---|-------|---------|
| | No. | Title | L | T | P | Total | |
| 1. | Xxxxx | HSS Elective - 1 | 2 | 1 | - | 3 | 3 |
| 2. | 10B11CI311 | Object Oriented Programming | 3 | 1 | - | 4 | 4 |
| 3. | 15B11EC314 | Introduction to Digital Systems | 3 | 1 | - | 4 | 4 |
| 4. | 15B11CI312 | Database Systems and Web | 3 | 1 | - | 4 | 4 |
| 5. | 15B11CI313 | Computer Organisation and Architecture | 3 | 1 | - | 4 | 4 |
| 6. | 10B17CI371 | Object Oriented Programming Lab | - | - | 2 | 2 | 1 |
| 7. | 15B17EC374 | Digital Systems Lab | - | - | 2 | 2 | 1 |
| 8. | 15B17CI372 | Database Systems and Web lab | - | - | 2 | 2 | 1 |
| 9. | 15B17CI373 | Computer Organisation and Architecture Lab | - | - | 2 | 2 | 1 |
| 10. | 10B11MA201 | Mathematics-II | 3 | 1 | - | 4 | 4 |
| | | TOTAL | | | | 31 | 27 |

FOURTH SEMESTER

| Sr. No. | Course | | Contact Hours | | | | Credits |
|---------|------------|--|---------------|---|---|-------|---------|
| | No. | Title | L | T | P | Total | |
| 1. | Xxxxx | HSS Elective - 2 | 2 | 1 | - | 3 | 3 |
| 2. | 15B11MA301 | Probability and Random Processes | 3 | 1 | - | 4 | 4 |
| 3. | 15B11CI411 | Algorithms and Problem Solving | 3 | 1 | - | 4 | 4 |
| 4. | 15B11CI412 | Operating Systems and Systems Programming | 3 | 1 | - | 4 | 4 |
| 5. | Xxxxx | CS Elective-1 | 3 | 1 | - | 4 | 4 |
| 6. | 15B11GE301 | Environmental Science | 3 | - | - | 3 | 3 |
| 7. | 15B17CI471 | Algorithms and Problem Solving Lab | - | - | 4 | 4 | 2 |
| 8. | 15B17CI472 | Operating Systems and Systems Programming Lab | - | - | 2 | 2 | 1 |
| | | | | | | | |
| | | TOTAL | | | | 28 | 25 |

FIFTH SEMESTER

| Sr. No. | Course | | Contact Hours | | | | Credits |
|---------|--------------------------|--|---------------|---|---|--------|---------|
| | No. | Title | L | T | P | Total | |
| 1. | Xxxxxx | HSS Elective-3 | 2 | 1 | - | 3 | 3 |
| 2. | 15B11CI511 15B11CI512 | Computer Networks OR Embedded Systems | 3 | 1 | - | 4 | 4 |
| 3. | 15B11CI513 15B11CI514 | Software Engineering OR Artificial Intelligence | 3 | 1 | - | 4 | 4 |
| | | Selected Foreign Language | 2/3 | | | 2/3 | Audit |
| 4. | Xxxxxx | Science Elective - 1 | 3 | 1 | - | 4 | 4 |
| 5. | 15B19CI591 | Minor Project – 1 | | | | | 5 |
| 6. | 15B17CI571 15B17CI572 | Computer Networks Lab OR Embedded Systems Lab | - | - | 2 | 2 | 1 |
| 7. | 15B17CI573 15B17CI574 | Software Engineering Lab OR Artificial Intelligence Lab | - | - | 2 | 2 | 1 |
| 8. | 15B17CI575 | Open Source Software Lab | - | - | 2 | 2 | 1 |
| 9. | 15B17CI576 | Information Security Lab | - | - | 2 | 2 | 1 |
| | | TOTAL | | | | 25/26+ | 24 |

SIXTH SEMESTER

| Sr. No. | Course | | Contact Hours | | | | Credits |
|---------|--------------------------|---|---------------|---|---|-------|---------|
| | No. | Title | L | T | P | Total | |
| 1. | Xxxxxx | HSS Elective -4 | 2 | 1 | - | 3 | 3 |
| 2. | 15B11CI611 15B11CI612 | Theory of Computation and Compiler Design OR Theory of Programming Languages | 3 | 1 | - | 4 | 4 |
| 3. | Xxxxxx | CS Elective-2 | 3 | 1 | - | 4 | 4 |
| 4. | Xxxxxx | CS Elective-3 | 3 | 1 | - | 4 | 4 |
| 5. | Xxxxxx | Science Elective - 2 | 3 | 1 | - | 4 | 4 |
| | | Selected Value Added Course | 2/3 | | | 2/3 | Audit |
| 6. | 15B17CI671 15B17CI672 | Compiler Design Lab OR Programming Languages Lab | - | - | 2 | 2 | 1 |
| 7. | 15B19CI691 | Minor Project-2 | - | - | | | 5 |
| | | TOTAL | | | | 24 | 25 |

Students will undergo 6 weeks Industrial Training during Summer Vacation after 6th Semester.

SEVENTH SEMESTER

| Sr. No. | Course | | Contact Hours | | | | Credits |
|---------|------------|----------------------|---------------|---|---|-------|---------|
| | No. | Title | L | T | P | Total | |
| 1. | Xxxxx | CS Elective-4 | 3 | 1 | - | 4 | 4 |
| 2. | Xxxxx | CS Elective-5 | 3 | 1 | - | 4 | 4 |
| 3. | Xxxxx | CS Elective-6 | 3 | 1 | - | 4 | 4 |
| 4. | Xxxxx | Open Elective - 1 | 3 | | - | 3 | 3 |
| | | | | | | | |
| 5. | 15B19CI794 | Major Project Part-1 | - | - | | | 5 |
| 6. | 15B19CI792 | Term Paper | - | - | - | - | 3 |
| 7. | 15B19CI793 | Summer Training Viva | - | - | - | - | 2 |
| | | TOTAL | | | | 15+ | 25 |

EIGHTH SEMESTER

| Sr. No. | Course | | Contact Hours | | | | Credits |
|---------|------------|----------------------|---------------|---|---|-------|---------|
| | No. | Title | L | T | P | Total | |
| 1. | Xxxxx | CS Elective-7 | 3 | 1 | - | 4 | 4 |
| 2. | Xxxxx | CS Elective-8 | 3 | 1 | - | 4 | 4 |
| 3. | Xxxxx | Open Elective - 2 | 3 | | - | 3 | 3 |
| 4. | 15B19CI891 | Major Project Part-2 | - | - | | | 12 |
| | | TOTAL | | | | 11+ | 23 |

Total Credits for B. Tech. –195