

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY
ANANTAPUR**

**Course structure for B.Tech. (Regular)
I year (2009-10) for affiliated Engineering Colleges.**

**Civil Engineering (C.E.)
(Common For Branches: M.E., C.E, Bio-Tech., Aero.E.)**

| S.No | Course code | Subject | Th | Tu/Drg./Lab. | | | Credits |
|--|-------------|--|----|--------------|---|----|-----------|
| 1. | 9ABS101 | English | 2 | | | | 4 |
| 2. | 9ABS102 | Engineering Physics | 2 | | | | 4 |
| 3. | 9ABS103 | Engineering Chemistry | 2 | | | | 4 |
| 4. | 9ABS104 | Mathematics – I | 3 | 1 | - | - | 6 |
| 5. | 9A05101 | Programming in C and Data Structures | 3 | 1 | - | - | 6 |
| 6. | 9A03101 | Engineering Drawing * | | - | 6 | - | 6 |
| 7. | 9A01101 | Engineering Mechanics | 3 | 1 | - | - | 6 |
| 8. | 9A05102 | C Programming & Data Structures Lab | | - | - | 3 | 4 |
| 9. | 9A03102 | Engineering & I.T. Workshop # | | - | - | 3 | 4 |
| 10. | 9ABS106 | Engineering Physics and Engineering Chemistry Lab ** | | - | - | 3 | 4 |
| 11. | 9ABS107 | English Language & Communication Skills Lab | | - | - | 3 | 4 |
| | | contact periods/week | 15 | 3 | 6 | 12 | |
| | | | | Total/week | | 36 | |
| Total Credits (7 Theory + 4 Labs) | | | | | | | 52 |

Th = Theory; Tu = Tutorial; Drg = Drawing & Lab = Laboratory:

* Engineering Drawing will have University External Exam.

** The Students attend the Physics lab and Chemistry lab in alternate weeks. The end exam shall be conducted separately and average of the two exams will be recorded by the University exam section.

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Students attend Engineering and IT work shop as a single lab every week and the end exam is conducted as a single lab. sharing the Maximum marks and time for one task each from Engineering workshop and IT workshop. The sum of the marks awarded will be recorded

Civil Engineering (C.E.)

B.Tech II - I Semester

| S. No | Course code | Subject | Theory | Lab | Credits |
|-----------------------------------|-------------|------------------------------------|------------|-----|---------|
| 1. | 9ABS301 | Mathematics – II | 4 | | 4 |
| 2. | 9A02303 | Electrical & Mechanical Technology | 4 | | 4 |
| 3. | 9A01302 | Strength of Materials – I | 4 | | 4 |
| 4. | 9A01303 | Surveying | 4 | | 4 |
| 5. | 9A01304 | Fluid Mechanics | 4 | | 4 |
| 6. | 9A01305 | Building Materials & Construction | 4 | | 4 |
| 7. | 9A01306 | Surveying Lab – I | | 3 | 2 |
| 8. | 9A01307 | Strength of Materials Lab | | 3 | 2 |
| | | contact periods/week | 24 | 6 | |
| | | | Total/Week | 30 | |
| Total Credits (6 Theory + 2 Labs) | | | | | 28 |

***NOTE:** In Electrical & Mechanical Technology at least two questions from each part should be chosen for answering five questions in the End semester examination.

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B.Tech II - II Semester

| S. No | Course code | Subject | Theory | | Lab | Credits |
|-----------------------------------|-------------|---|------------|--|-----|---------|
| 1. | 9ABS304 | Probability & Statistics | 4 | | | 4 |
| 2. | 9ABS303 | Environmental Science | 4 | | | 4 |
| 3. | 9A01401 | Strength of Materials – II | 4 | | | 4 |
| 4. | 9A01402 | Hydraulics & Hydraulic Machinery | 4 | | | 4 |
| 5. | 9A01403 | Structural Analysis – I | 4 | | | 4 |
| 6. | 9A01405 | Building Planning & Drawing | 4 | | | 4 |
| 7. | 9A01406 | Fluid Mechanics & Hydraulic Machinery Lab | | | 3 | 2 |
| 8. | 9A01408 | Surveying Lab - II | | | 3 | 2 |
| | | contact periods/week | 24 | | 6 | |
| | | | Total/Week | | 30 | |
| Total Credits (6 Theory + 2 Labs) | | | | | | 28 |

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B.Tech III - I Semester

| S. No | Course code | Subject | Theor y | Lab. | Credits |
|-------|-------------|--|----------------------|----------|-----------|
| 1. | 9AHS401 | Managerial Economics & Financial Analysis | 4 | - | 4 |
| 2. | 9A01501 | Design & Drawing of reinforced concrete structures | 4 | - | 4 |
| 3. | 9A01502 | Concrete Technology | 4 | - | 4 |
| 4. | 9A01503 | Water resources Engineering – I | 4 | - | 4 |
| 5. | 9A01504 | Structural Analysis - II | 4 | - | 4 |
| 6. | 9A01505 | Engineering Geology | 4 | - | 4 |
| 7. | 9A01506 | Engineering Geology Lab | - | 3 | 2 |
| 8. | 9AHS601 | Advanced English Communication Skills Lab | - | 3 | 2 |
| | | contact periods/week | 24 | 6 | |
| | | | Total/Week 30 | | |
| | | Total Credits (6 Theory + 2 Labs) | | | 28 |

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B.Tech III - II Semester

| S. No | Course code | Subject | Theor y | Lab. | Credits |
|-----------------------------------|-------------|--------------------------------------|-----------|----------|---------|
| 1. | 9A01601 | Design & Drawing of Steel Structures | 4 | - | 4 |
| 2. | 9A01602 | Geotechnical Engineering - I | 4 | - | 4 |
| 3. | 9A01603 | Environmental Engineering - I | 4 | - | 4 |
| 4. | 9A01604 | Water Resources Engineering - II | 4 | - | 4 |
| 5. | 9A01605 | Estimation, Costing and valuation | 4 | - | 4 |
| 6. | 9A01606 | Transportation Engineering | 4 | - | 4 |
| 7. | 9A01607 | Geotechnical Engineering Lab | - | 3 | 2 |
| 8. | 9A01608 | Environmental Engineering Lab | - | 3 | 2 |
| | | contact periods/week | 24 | 6 | |
| Total/Week 30 | | | | | |
| Total Credits (6 Theory + 2 Labs) | | | | | 28 |

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B.Tech IV - I Semester

| S. No | Course code | Subject | Theor y | Lab. | Credits |
|-----------------------------------|-------------|---|---------------|----------|---------|
| 1. | 9A01701 | Finite Element Methods in Civil Engg. | 4 | - | 4 |
| 2. | 9A01702 | Bridge Engineering | 4 | - | 4 |
| 3. | 9A01703 | Geotechnical Engineering – II | 4 | - | 4 |
| 4. | 9A01704 | Environmental Engineering - II | 4 | - | 4 |
| 5. | | Elective – I | | | |
| | 9A01705 | 1. Earthquake Resistant Design | 4 | - | 4 |
| | 9A01706 | 2. Air Pollution & Control | | | |
| | 9A01707 | 3. Railways, Docks and Harbor Engineering | | | |
| 6. | | Elective – II | | | |
| | 9A01708 | 1. Water resources System Planning & Management | 4 | - | 4 |
| | 9A01709 | 2. Advanced Structural Analysis | | | |
| | 9A01710 | 3. Construction Technology and Project Management | | | |
| 7. | 9A01711 | CAD Lab | - | 3 | 2 |
| 8. | 9A01712 | Concrete & Highway Materials Lab | - | 3 | 2 |
| | | contact periods/week | 24 | 6 | |
| | | | Total/Week 30 | | |
| Total Credits (6 Theory + 2 Labs) | | | | | 28 |

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B.Tech IV - II Semester

| S. No | Course code | Subject | Theor y | Lab. | Credits |
|--|-------------|---|------------|------|---------|
| 1. | 9A01801 | Advanced Structural Engineering | 4 | - | 4 |
| 2. | 9A01802 | Design and Drawing of Irrigation Structures | 4 | - | 4 |
| 3. | 9A01803 | Elective – III Advanced Foundation Engineering | 4 | - | 4 |
| | 9A01804 | Ground Improvement Techniques | | | |
| | 9A01805 | Remote Sensing & GIS | | | |
| 4. | 9A01806 | Elective – IV Experimental Stress Analysis | 4 | - | 4 |
| | 9A01807 | Prestressed concrete | | | |
| | 9A01808 | Environmental Impact Assessment and Management | | | |
| 5. | 9A01809 | Seminar | | | 2 |
| 6. | 9A01810 | Project | | | 10 |
| | | contact periods/week | 16 | - | - |
| | | | Total/Week | | 16 |
| Total Credits (4Theory + Seminar + Project Work) | | | | | 28 |