



KAKA JAYASINSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL
DEPARTMENT OF CIVIL ENGINEERING
 Scheme of Instruction and Evaluation for Four-Year Undergraduate Programme
B.TECH (CIVIL ENGINEERING)
SEMESTER - I


| Sl.No | Course Category | Course Code | Course Name | Periods | | | Credits | |
|---------|-----------------|-------------|---|---------|---|----|---------|---|
| | | | | L | T | P | C | C |
| 1 | BSC | U18MH101 | Engineering Mathematics - I | 3 | 1 | - | 4 | |
| 2 | ESC | U18CS102 | Programming for Problem Solving using C | 3 | - | - | 3 | |
| 3 | BSC | U18CH103 | Engineering Chemistry | 3 | 1 | - | 4 | |
| 4 | ESC | U18ME104 | Engineering Drawing | 2 | - | 4 | 4 | |
| 5 | ESC | U18CE105 | Engineering Mechanics | 3 | 1 | - | 4 | |
| 6 | ESC | U18CS107 | Programming for Problem Solving using C Lab | - | - | 2 | 1 | |
| 7 | BSC | U18CH108 | Engineering Chemistry Lab | - | - | 2 | 1 | |
| 8 | ESC | U18ME109 | Engineering Workshop Practice | - | - | 2 | 1 | |
| 9 | MC | U18EA110 | EAA : PE & NSS* | - | - | 2 | - | |
| Total | | | | 14 | 3 | 12 | 22 | |
| Periods | | | | 29 | | | | |


* indicates mandatory non-credit course



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 Chairperson, BoS



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SEMESTER - II


| Sl.No | Course Category | Course Code | Course Name | Periods | | | Credits | |
|----------------|-----------------|-------------|----------------------------------|---------|---|----|---------|----|
| | | | | L | T | P | C | C |
| 1 | BSC | U18MH201 | Engineering Mathematics - II | 3 | 1 | - | - | 4 |
| 2 | ESC | U18CS202 | Data Structures through C | 3 | - | - | - | 3 |
| 3 | BSC | U18PH203 | Engineering Physics | 3 | 1 | - | - | 4 |
| 4 | HSMC | U18MH204 | English for Communication | 2 | - | 2 | - | 3 |
| 5 | ESC | U18EE205 | Basic Electrical Engineering | 3 | 1 | - | - | 4 |
| 6 | ESC | U18EE206 | Basic Electrical Engineering Lab | - | - | 2 | - | 1 |
| 7 | ESC | U18CS207 | Data Structures through C Lab | - | - | 2 | - | 1 |
| 8 | BSC | U18PH208 | Engineering Physics Lab | - | - | 2 | - | 1 |
| 9 | MC | U18CH209 | Environmental Studies* | 2 | - | - | - | - |
| 10 | MC | U18EA210 | EAA : PE & NSS* | - | - | 2 | - | - |
| Total | | | | 16 | 3 | 10 | - | 21 |
| Periods | | | | 29 | | | | |


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SEMESTER - III


| Sl.No | Course Category | Course Code | Course Name | Periods | | | Credits |
|----------------|-----------------|-------------|----------------------------------|-----------|----------|----------|-----------|
| | | | | L | T | P | |
| 1 | BSC | U18MH301 | Engineering Mathematics - III ✓ | 3 | 1 | - | 4 |
| 2 | HSMC | U18TP302 | Soft and Interpersonal Skills | - | - | 2 | 1 |
| 3 | ESC | U18CE303 | Strength of Materials | 3 | 1 | - | 4 |
| 4 | PCC | U18CE304 | Fluid Mechanics | 3 | - | - | 3 |
| 5 | PCC | U18CE305 | Surveying | 3 | - | - | 3 |
| 6 | PCC | U18CE306 | Construction Materials | 3 | - | - | 3 |
| 7 | ESC | U18CE307 | Strength of Materials Laboratory | - | - | 2 | 1 |
| 8 | PCC | U18CE308 | Concrete Technology Laboratory | - | - | 2 | 1 |
| 9 | PCC | U18CE309 | Surveying Field Work-I | - | - | 2 | 1 |
| Total | | | | 15 | 2 | 8 | 21 |
| Periods | | | | 25 | | | |



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SEMESTER - IV

| Sl.No | Course Category | Course Code | Course Name | Periods | | | Credits |
|---------|-----------------|-------------|--|---------|---|---|---------|
| | | | | L | T | P | |
| 1 | BSC | U18MH401 | Engineering Mathematics - IV | 3 | 1 | - | 4 |
| 2 | HSMC | U18MH402 | Professional English | - | - | 2 | 1 |
| 3 | PCC | U18CE403 | Mechanics of Materials | 3 | - | - | 3 |
| 4 | PCC | U18CE404 | Hydraulics Engineering | 3 | - | - | 3 |
| 5 | PCC | U18CE405 | Design of Reinforced Concrete Structures | 3 | 1 | - | 4 |
| 6 | PCC | U18CE406 | Engineering Geology | 3 | 0 | - | 3 |
| 7 | PCC | U18CE407 | Hydraulic and Hydraulic Machinery Laboratory | - | - | 2 | 1 |
| 8 | PCC | U18CE408 | Engineering Geology Laboratory | - | - | 2 | 1 |
| 9 | PCC | U18CE409 | Surveying Field Work-II | - | - | 2 | 1 |
| 10 | MC | U18MH415 | Essence of Indian Traditional Knowledge | 2 | - | - | - |
| Total | | | | 17 | 2 | 8 | 21 |
| Periods | | | | 17 | 2 | 8 | 21 |

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SEMESTER - V

| Sl. No | Category | Course Code | Course Title | Hours per week | | | Credits |
|--------------|----------|-------------|--|----------------|----------|----------|-----------|
| | | | | L | T | P | |
| 1 | MC | U18MH501 | Indian Constitution | 2 | - | - | - |
| 2 | PE | U18CE502 | Professional Elective - I | 3 | - | - | 3 |
| 3 | PCC | U18CE503 | Structural Analysis | 3 | - | - | 3 |
| 4 | PCC | U18CE504 | Hydrology and Water Resource Engineering | 3 | 1 | - | 4 |
| 5 | PCC | U18CE505 | Soil Mechanics | 3 | - | - | 3 |
| 6 | PCC | U18CE506 | Design of Steel Structures | 3 | - | - | 3 |
| 7 | PCC | U18CE507 | Civil Engineering Detailing Laboratory | - | - | 2 | 1 |
| 8 | PCC | U18CE508 | Soil Mechanics Laboratory | - | - | 2 | 1 |
| 9 | PCC | U18CE509 | Building Planning and Drawing | - | - | 2 | 1 |
| 10 | PROJ | U18CE510 | Seminar | - | - | 2 | 1 |
| Total | | | | 17 | 1 | 8 | 20 |
| | | | | Periods | | | |
| | | | | 17 | 1 | 8 | 20 |

Professional Elective-I:

U18CE502A: Advanced Surveying

U18CE502B: Advanced Concrete Technology

U18CE502C: Water shed Management

U18CE502M: MOOC-I

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SEMESTER - VI

| Sl. No | Category | Course Code | Course Title | Hours per week | | | | Credits |
|--------|----------|-------------|--|----------------|---|----|----|---------|
| | | | | L | T | P | C | |
| 1 | HSMC | U18TP601 | Quantitative Aptitude & Logical Reasoning. | 2 | - | - | 1 | |
| 2 | HSMC | U18MH602 | Management Economics and Accountancy | 3 | - | - | 3 | |
| 3 | PE | U18CE603 | Professional Elective - II | 3 | - | - | 3 | |
| 4 | PCC | U18CE604 | Foundation Engineering | 3 | - | - | 3 | |
| 5 | PCC | U18CE605 | Estimation and Valuation | 3 | - | - | 3 | |
| 6 | PCC | U18CE606 | Environmental Engineering | 3 | - | - | 3 | |
| 7 | PCC | U18CE607 | Construction Management and Equipment | 3 | - | - | 3 | |
| 8 | PCC | U18CE608 | Environmental Engineering Laboratory | - | - | 2 | 1 | |
| 9 | PCC | U18CE609 | Civil Engineering Software Laboratory-I | - | - | 2 | 1 | |
| 10 | PROJ | U18CE610 | Mini Project | - | - | 2 | 1 | |
| Total | | | | 20 | - | - | 22 | |
| | | | | Periods | | 26 | | |

Professional Elective-II:

U18CE603A: Advanced Analysis of Structures


U18CE603B: Ground Improvement Techniques


U18CE603C: Design of Environmental Engineering Systems


U18CE603M: MOOC-II



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SEMESTER - VII

| Sl. No | Category | Course Code | Course Title | Hours per week | | | Credits |
|---------------|----------|-------------|--|----------------|-----------|-----------|-----------|
| | | | | L | T | P | |
| 1 | OE | U18OE701 | Open Elective- I | 3 | - | - | 3 |
| 2 | PE | U18CE702 | Professional Elective - III | 3 | - | - | 3 |
| 3 | PE | U18CE703 | Professional Elective - IV | 3 | - | - | 3 |
| 4 | PCC | U18CE704 | Highway Engineering | 3 | - | - | 3 |
| 5 | PCC | U18CE705 | Highway Engineering Laboratory | - | - | 2 | 1 |
| 6 | PCC | U18CE706 | Civil Engineering Software Laboratory-II | - | - | 2 | 1 |
| 7 | PROJ | U18CE707 | Major Project - Phase - I | - | - | 6 | 3 |
| 8 | MC | U18CE708 | Internship Evaluation | - | - | 2 | - |
| Total: | | | | 12 | - | 12 | 17 |
| | | | | Periods | 24 | | |

Open Elective-I:

U18OE701A: Disaster Management


U18OE701B: Project Management


U18OE701C: Professional Ethics in Engineering

U18OE701D: Rural Technology and Community Development


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Professional Elective-III :


U18CE702A: Advanced Structural Design

U18CE702B: Hydraulic Structures

U18CE702C: Environmental Impact Assessment

U18CE702M: MOOC-III


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Professional Elective-IV :


U18CE703A: Structural Dynamics


U18CE703B: Railway and Airport Engineering

U18CE703C: Construction Techniques and Equipment

U18CE703M: MOOC-IV


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SEMESTER - VIII

| Sl. No | Category | Course Code | Course Title | Hours per week | | | | Credits | |
|----------------|----------|-------------|----------------------------|----------------|---|----|----|---------|--|
| | | | | L | T | P | C | | |
| 1 | PE | U18CE801 | Professional Elective - V | 3 | - | - | 3 | | |
| 2 | PE | U18CE802 | Professional Elective - VI | 3 | - | - | 3 | | |
| 3 | OE | U18OE803 | Open Elective - II | 3 | - | - | 3 | | |
| 4 | PROJ | U18CE804 | Major Project - Phase - II | - | - | 14 | 7 | | |
| Total: | | | | 9 | - | 14 | 16 | | |
| Periods | | | | 23 | | | | | |

| Professional Elective-V: | Professional Elective-VI: | Open Elective-II: |
|--|---------------------------------------|---|
| U18CE801A: Prestressed Concrete | U18CE802A: Earthquake Engineering | U18OE803A: Operations Research |
| U18CE801B: Repair and Rehabilitation of structures | U18CE802B: Earth retaining structures | U18OE803B: Management Information Systems |
| U18CE801C: Construction Contracts Management | U18CE802C: Bridge Engineering | U18OE803C: Entrepreneurship Development |
| U18CE801M: MOOC-V | U18CE802M: MOOC-VI | U18OE803D: Forex and Foreign Trade |
| | | U18OE803M: MOOC-VII |

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The meeting commenced at 9.30 am and was presided over by the chairman BoS Civil Engineering. The chairman welcomed members to the meeting to discuss the pre notified items on the agenda.

Resolutions

1. LOs & COs to be listed in the same table.
2. A common format for text books & reference books to be maintained like 2 text books and 4 reference books.
3. U18CE306-UNIT-I-Chapter I & II to be swapped.
4. U18OE311F - include demonstration experiments on strain gauges, LVDTs & Thermal imaging.
5. U18OE401A-Suggested to be renamed as Applied Mathematics.
6. U18CE403-UNIT-III-Chapter-II to be renamed as columns & struts, Unit-IV chapter II applications to be included.
7. U18CE404-UNIT-I-Chapter I & II to be swapped.
8. U18CE406-UNIT-IV-Chapter-II, case studies to be included.
9. U18CE407-Experiments one and five to be renamed as suggested.
10. U18CE407-Experiment No.14 to be renumbered at 8.
11. U18CE407 - Experiment No. 7 to be renamed as suggested.
12. The reference books of laboratory should be same as that of corresponding theory text books.
13. U18CE409-Demonstration experiments on RS & GIS to be included and suggested to develop RS& GIS Laboratory.

The meeting adjourned at 12.30 p.m. After thanking all the members for participation and useful discussion

K. S. Rao
C.K. SRINIVASA RAO,

Senthil
(Prof S.G.N.R)

4/5/2019
(Prof. D. Ramasamy)

4/5/2019
B. VENUGOPAL

Seef
(Dr. L. Sathesh Reddy)

4/5/19
(Dr. M. Anand)

4/5/19
(Dr. M. Srikanth)

(B. SETHA SREENIVAS)

4/5/19
(Dr. M. Veera Reddy)