

Sant Gadgebaba Amravati University, Amravati-444602
Two year post-graduate course in Civil Engineering (Structural Engineering)
Master of Engineering (Full Time)

FIRST SEMESTER

| Sr No | Name Of the subject | | THEORY | | | | | | | | | | PRACTICAL | | | |
|-------|---------------------|--|-------------|---|---|----------------|-----------|--------------------------|-------------------------------|------------|-----------------|--------------------|-----------|-------------------------------|------------|----------------|
| | | | Hours/ Week | | | Duration (Hrs) | Credits | Max. Marks Theory Papers | Max. Marks College assessment | Total | Min. Pass Marks | | Max Marks | Max. Marks College assessment | Total | Min Pass Marks |
| | | | L | T | P | | | | | | Theory Papers | College assessment | | | | |
| 1 | 1SFSE1 | Introduction to Earthquake And Retrofitting of structures | 4 | - | - | 3 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 2 | 1SFSE2 | Theory of Elasticity And Elastic Stability | 4 | - | - | 3 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 3 | 1SFSE3 | Matrix Methods of Structural Analysis | 4 | - | - | 3 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 4 | 1SFSE4 | Structural Dynamics | 4 | - | - | 3 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 5 | 1SFSE5 | Earthquake Resistant Design of Reinforced Concrete Structures | 4 | - | - | 4 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 6 | 1SFSE6 | Earthquake Resistant Design of Reinforced Concrete Structures - Studio | - | - | 2 | - | 1 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| 7 | 1SFSE7 | Computer Aided Analysis & Design of Structures – Studio | - | - | 2 | - | 2 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| | | TOTAL | 20 | - | 4 | | 23 | | | 500 | | | | | 100 | |

TOTAL : 600

SECOND SEMESTER

| Sr No. | Name Of the subject | | THEORY | | | | | | | | | PRACTICAL | | | | |
|--------|---------------------|--|------------|---|---|----------------|-----------|--------------------------|-------------------------------|------------|-----------------|--------------------|-----------|-------------------------------|------------|----------------|
| | | | Hours/Week | | | Duration (Hrs) | Credits | Max. Marks Theory Papers | Max. Marks College assessment | Total | Min. Pass Marks | | Max Marks | Max. Marks College assessment | Total | Min Pass Marks |
| | | | L | T | P | | | | | | Theory Papers | College assessment | | | | |
| 1 | 2SFSE1 | Finite Element Method | 4 | - | - | 3 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 2 | 2SFSE2 | Advanced Design of Steel Structures | 4 | - | - | 4 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 3 | 2SFSE3 | Theory of Plates and Shells | 4 | - | - | 3 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 4 | 2SFSE4 | Design of Prestressed Concrete structures | 4 | - | - | 4 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 5 | 2SFSE5 | Elective* | 4 | - | - | 4 | 4 | 80 | 20 | 100 | 40 | 10 | - | - | - | - |
| 6 | 2SFSE6 | Adv. Design of Steel Structures : Studio | - | - | 2 | - | 1 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| 7 | 2SFSE7 | Design of Prestressed Concrete Structures - Studio | - | - | 2 | - | 1 | - | - | - | - | - | 25 | 25 | 50 | 25 |
| | | TOTAL | 20 | - | 4 | | 22 | | | 500 | | | | | 100 | |

TOTAL : 600

Elective* – (1) Substructures and Foundation Design
 (3) Experimental Stress Analysis

(2) Earthquake Resistant Design of Bridges and Dams
 (4) Design of Environmental Structures

THIRD SEMESTER

| Sr No. | Name Of the subject | | Examination Scheme | | | | | | | |
|--------|---------------------|--------------------------|--------------------|---|---|-----------|----------|----------|-------------|----------------|
| | | | Hours/Week | | | Credits | External | Internal | Total Marks | Min Pass Marks |
| | | | L | T | P | | | | | |
| 1 | 3SFSE1 | Seminar and Dissertation | – | – | 6 | 15 | | 100 | 100 | 50 |
| | | TOTAL | – | – | 6 | 15 | | | 100 | |

FOURTH SEMESTER

| Sr No. | Name Of the subject | | Examination Scheme | | | | | | | |
|--------|---------------------|--|--------------------|---|---|---------|----------|----------|-------------|----------------|
| | | | Hours/Week | | | Credits | External | Internal | Total Marks | Min Pass Marks |
| | | | L | T | P | | | | | |

| | | | | | | | | | | |
|---|--------|--------------------------|---|---|----|-----------|-------------------|-----|-----|-----|
| | | | | | | | | | | |
| 1 | 4SFSE1 | Seminar and Dissertation | - | - | 12 | 30 | 200 | 100 | 300 | 150 |
| | | TOTAL | - | - | 12 | 30 | TOTAL: 300 | | | |

Semester III

Seminar: Seminar to be delivered on the work completed during third semester. 50 internal marks out of 100 will be assessed by a committee consisting of Head Department, Dissertation guide and subject expert appointed by Principal of the College/ head of University Department. Remaining 50 internal marks will be by guide based on performance.

Dissertation: Title of the dissertation work to be submitted to the university on or before 15th Sept. (for regular examination) and 15th of February (for supplementary exam.) Title modified / rejected by the sanctioning authority to be conveyed to the concerned within a month.

Semester IV

Seminar: Seminar to be delivered on the work completed during third semester. 50 internal marks out of 100 will be assessed by a committee consisting of Head Department, Dissertation guide and subject expert appointed by Principal of the College/ head of University Department. Remaining 50 internal marks will be by guide based on performance.

Note: Thesis of dissertation must be submitted to the university on or before 30th April (for regular examination) and 30th November (for supplementary exam.) thesis of dissertation work be submitted with late fee to the University upto 31st May (for regular exam) and 31st December (for supplementary exam). The late fee shall be charged as in case of Examination form.

1. Student should fill the examination form in the beginning of 3rd semester jointly for 3rd and 4th semester. Single mark sheet for 3rd & 4th semester together will be given to the student.