

**M.Tech. (Geotechnical Engineering) : PART TIME 2008-09**  
**Self Financed 6 Semester Course of Civil Engineering Department**

Teaching Scheme

| SUBJECT/ SEMESTER  | Teaching Hrs/week |           | Examination Scheme |             |             |
|--|-------------------|-----------|--------------------|-------------|-------------|
|  | L                 | T/P       | Max. Marks         |             | Total Marks |
|  |                   |           | Exam               | IA          |             |
| <b>FIRST SEMESTER</b>                                    |                   |           |                    |             |             |
| 1MGE1 : Geotechnical Engineering                         | 3                 | 1         | 100                | 25          | 125         |
| 1MGE2 : Design of Embankment Dams                        | 3                 | 1         | 100                | 25          | 125         |
| 1MGE3: Rock Engineering                                  | 3                 | 1         | 100                | 25          | 125         |
| <b>TOTAL</b>   | <b>09</b>         | <b>03</b> | <b>300</b>         | <b>75</b>   | <b>375</b>  |
| <b>SECOND SEMESTER</b>                                   |                   |           |                    |             |             |
| 2MGE1 : Geotechnical Testing and Instrumentation         | 3                 | 1         | 100                | 25          | 125         |
| 2MGE2 : Numerical and Analytical Methods in Geomechanics | 3                 | 1         | 100                | 25          | 100         |
| 2MGE3 : Advanced Foundation Engineering                  | 3                 | 1         | 100                | 25          | 100         |
| <b>TOTAL</b>   | <b>09</b>         | <b>03</b> | <b>300</b>         | <b>75</b>   | <b>375</b>  |
| <b>THIRD SEMESTER</b>                                    |                   |           |                    |             |             |
| 3MGE1: Theoretical Soil mechanics                        | 3                 | 1         | 100                | 25          | 125         |
| 1MGE4 : Elective-I                                       | 3                 | 1         | 100                | 25          | 125         |
| 1MGE5: Geotechnical Engineering Lab-1                    | -                 | 3         | 40                 | 60          | 100         |
| <b>TOTAL</b>   | <b>06</b>         | <b>05</b> | <b>240</b>         | <b>110</b>  | <b>350</b>  |
| <b>FOURTH SEMESTER</b>                                   |                   |           |                    |             |             |
| 3MGE2: Design of Retaining Structures                    | 3                 | 1         | 100                | 25          | 125         |
| 2MGE4 : Elective-II                                      | 3                 | 1         | 100                | 25          | 125         |
| 2MGE5: Geotechnical Engineering Lab II                   | -                 | 3         | 40                 | 60          | 100         |
| <b>TOTAL</b>   | <b>06</b>         | <b>05</b> | <b>240</b>         | <b>110</b>  | <b>350</b>  |
| <b>FIFTH SEMESTER</b>                                    |                   |           |                    |             |             |
| 3MGE4 : Seminar  | -                 | 4         | 90                 | 60          | 150         |
| 3MGE3 : Dissertation Part I                              | -                 | 4         | -                  | 100         | 100         |
| <b>TOTAL</b>   | <b>-</b>          | <b>8</b>  | <b>60</b>          | <b>160</b>  | <b>250</b>  |
| <b>SIXTH SEMESTER</b>                                    |                   |           |                    |             |             |
| 4MGE1 : Dissertation Part II                             | -                 | 16        |                    | 500         | 500         |
| <b>TOTAL</b>   | <b>-</b>          | <b>16</b> | <b>-</b>           | <b>500</b>  | <b>500</b>  |
| <b>GRAND TOTAL</b>                                       | <b>30</b>         | <b>40</b> | <b>1170</b>        | <b>1030</b> | <b>2200</b> |

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**LIST OF ELECTIVES**

1MGE4 : ELECTIVE – I

1MEV4.1 : Ground Improvement Techniques

1MGE4.2: Geosynthetics in Geotechnical Engg.

1MGE4.3 : Shear Strength of soil

2MGE4 : ELECTIVE – II

2MEV4.1 : Soil Dynamics

2MGE4.2 : Advanced Rock Engineering

1MGE4..3 : Soil Hydraulics