

Catalog of Postgraduate Programs and Curricula

Curriculum for MSc(CIEM) (For students admitted in 2010-11)

Program Requirements for Master of Science (MSc) Program in Civil Infrastructural Engineering and Management

Credits

To take a **minimum of 30 credits** of approved coursework. Students shall take courses offered by the programs and each course normally carries 3 credits.

Courses

1. Foundation courses:

Courses offered are arranged in the following seven sub-areas:-

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| i. | Infrastructural System Engineering and Management | CIEM 5100, CIEM 5130, CIEM 5150, CIEM 5160, CIEM 5810 |
| ii. | Material Engineering | CIEM 5240, CIEM 5250, CIEM 5330, CIEM 5350 |
| iii. | Structural Engineering | CIEM 5310, CIEM 5320, CIEM 5330, CIEM 5340, CIEM 5350, CIEM 5370, CIEM 5380, CIEM 5390 |
| iv. | Environmental Engineering | CIEM 5410, CIEM 5480 |
| v. | Water Resources Engineering | CIEM 5390, CIEM 5510, CIEM 5570 |
| vi. | Transportation Engineering | CIEM 5620, CIEM 5630 |
| vii. | Geotechnical Engineering | CIEM 5710, CIEM 5720, CIEM 5770 |

To ensure breadth of the curriculum, students must take courses from at least 3 sub-areas. Students are recommended to select Infrastructural System Engineering and Management as one of the sub-areas.

2. Special Topics / Project courses (options):

Subject to the approval of the Program Director, students may take optional special topics and project courses CIEM 6000 *Topics in Civil Infrastructural Engineering and Management* and CIEM 6980 *MSc Project* which cover one or two areas of the above sub-areas.

3. Other courses:

- Subject to the approval of the Program Director, students may take a maximum of 6 credits of JEVE courses from the MSc program in Environmental Engineering offered by the Department of Civil and Environmental Engineering, and a maximum of 6 credits of IBTM courses from the MSc program in Intelligent Building Technology and Management offered by the Department of Mechanical Engineering as partial fulfillment of the graduation requirements of the MSc program.
- Subject to the approval of the Program Director and course instructor, MSc students may take a maximum of 6 credits of CIVL courses at 4000-level as partial fulfillment of the program requirements.

Concentration

Students are given an option to complete a concentration in a selected sub-area. To complete a concentration, students are required to complete at least 4 courses in a selected sub-area.

Study Load

Part-time students may take a maximum of 9 credits in each term.

Credit Transfer

Subject to the approval of the Program Director and regulations of the University, maximum of 9 credits may be transferred to the MSc program.