

Universitatea "Politehnica" din Timișoara  
 Facultatea de **Constructii**  
 Domeniul de licenta: **Inginerie civila**  
 Programul de studii univ. de masterat: **Advanced design of steel and composite structures**  
 Forma de invatamant: **cu frecventa**  
 Durata studiilor: **2 ani**

Domeniul fundamental de ierarhizare (DFI): **Stiinte ingineresti**  
 Ramura de stiinta (RSI): **Inginerie civila**  
 Domeniul de ierarhizare (DII): **Inginerie civila si instalatii**  
 Domeniul de studii universitare de masterat (DSU\_M): **Inginerie civila si instalatii**

Cod DFI.Cod RSI.Cod DII.Cod DSU\_M  
 20.10.10.10

**PLAN DE ÎNVĂȚĂMÂNT - STUDII UNIVERSITARE DE MASTER**

| Anul I (2012/2013) |   |   |    |   |    |              |  |     |   |   |    |               | Anul II (2012/2013)   |    |     |     |   |              |  |   |    |    |     |     |   |    |  |  |    |  |    |
|--------------------|---|---|----|---|----|--------------|--|-----|---|---|----|---------------|---|----|-----|-----|---|--------------|--|---|----|----|-----|-----|---|----|--|--|----|--|----|
| SEMESTRUL I        |   |   |    |   |    | SEMESTRUL II |  |     |   |   |    | SEMESTRUL III |   |    |     |     |   | SEMESTRUL IV |  |   |    |    |     |     |   |    |  |  |    |  |    |
| 1.                 | Theory of Elasticity and Plasticity         |   |    |   |    |              | Robustness of structures under extreme actions         |     |   |   |    |               | OPTIONAL 1 Cold-formed Steel Structures/ Steel and Composite Steel-Concrete Bridges |    |     |     |   |              | Research Activity - 7 weeks                        |   |    |    |     |     |   |    |  |  |    |  |    |
|                    | E   | 8 | 28 | 0 | 14 | 0            | DS   | 150 | E | 7 | 28 | 14            | 0   | 0  | DCA | 120 | E | 8            | 28   | 0 | 0  | 28 | DCA | 150 | D | 15 |  |  | 98 |  |    |
| 2.                 | Advanced Finite Element Analysis            |   |    |   |    |              | Perforamnce Based Seismic Design                       |     |   |   |    |               | OPTIONAL 2 High-Rise Steel Buildings/ Structures for Buildings with Large Sspans    |    |     |     |   |              | Development and Defense of Master Thesis - 7 weeks |   |    |    |     |     |   |    |  |  |    |  |    |
|                    | E   | 7 | 14 | 0 | 28 | 0            | DS   | 120 | E | 8 | 28 | 0             | 28  | 0  | DA  | 150 | E | 8            | 28   | 0 | 28 | 0  | DCA | 150 | E | 15 |  |  |    |  | 98 |
| 3.                 | Research and Design Assisted by Testing     |   |    |   |    |              | Advanced Design of Composite Steel-Concrete Structures |     |   |   |    |               | OPTIONAL 3 Aluminium Structures / Metallic Shell Structures                         |    |     |     |   |              |  |   |    |    |     |     |   |    |  |  |    |  |    |
|                    | E   | 7 | 14 | 0 | 28 | 0            | DA   | 120 | E | 8 | 28 | 0             | 0   | 28 | DA  | 150 | E | 7            | 28   | 0 | 14 | 0  | DCA | 120 |   |    |  |  |    |  |    |
| 4.                 | Life Cycle Analysis for Building Structures |   |    |   |    |              | Introduction to Fire Design                            |     |   |   |    |               | Advanced Fire Design  |    |     |     |   |              |  |   |    |    |     |     |   |    |  |  |    |  |    |
|                    | E   | 8 | 42 | 0 | 28 | 0            | DS   | 150 | E | 7 | 28 | 14            | 0   | 0  | DA  | 120 | E | 7            | 28   | 0 | 14 | 0  | DCA | 120 |   |    |  |  |    |  |    |
| total / sem.       | ore: 196 VPI 540                            |   |    |   |    |              | ore: 196 VPI 540                                       |     |   |   |    |               | ore: 196 VPI 540  |    |     |     |   |              | ore: 196 VPI 540                                   |   |    |    |     |     |   |    |  |  |    |  |    |
|                    | credite: 30 evaluări: 4E 4                  |   |    |   |    |              | credite: 30 evaluări: 4E 4                             |     |   |   |    |               | credite: 30 evaluări: 4E 4  |    |     |     |   |              | credite: 30 evaluări: 2                            |   |    |    |     |     |   |    |  |  |    |  |    |
| total / săpt.      | ore: 14                                     |   |    |   |    |              | ore: 14  |     |   |   |    |               | ore: 14   |    |     |     |   |              | ore: 14  |   |    |    |     |     |   |    |  |  |    |  |    |
|                    | din care: 7 0 7 0 (c, s, l, p)              |   |    |   |    |              | din care: 8 2 2 2 (c, s, l, p)                         |     |   |   |    |               | din care: 8 0 4 2 (c, s, l, p)  |    |     |     |   |              | din care: 0 0 7 7 (c, s, l, p)                     |   |    |    |     |     |   |    |  |  |    |  |    |

**Legenda**

**Structura Tabel**

| Denumire disciplina |    |   |   |   |   |    |     |
|---------------------|----|---|---|---|---|----|-----|
| FE                  | nc | c | s | l | p | CF | VPI |

**Exemplu**

| Theory of Elasticity and Plasticity |   |    |   |    |   |    |     |
|-------------------------------------|---|----|---|----|---|----|-----|
| E                                   | 8 | 28 | 0 | 14 | 0 | DS | 150 |

**FE** poate fi: E  
 c - curs  
 E - examen  
 FE - forme de evaluare  
 l - laborator  
 CF - categoria formativa careia ii apartine disciplina:  
     DA - disciplina de aprofundare  
     DCA - disciplina de cunoastere avansata  
     DS - disciplina de sinteza

nc - număr credite  
 p - proiect  
 s - seminar  
 VPI - volum de ore necesar pregatirii individuale pentru un semestru de 14 sapt plus 4 sapt de sesiune

(\*) - discipline optionale activate in anul universitar 2012/2013

**RECTOR,**  
**Prof.dr.Ing. Viorel-Aurel ȘERBAN**