

**Proposal for a Course to be held at the  
International Centre for Mechanical Sciences (CISM)**

(Proponents should read the GUIDELINES FOR PROPOSERS  
to be downloaded from <http://www.cism.it/about/Proposal/>)

**Proponent:** *(Name, Affiliation, address)*

**Course Title** *(not more than 10 words):*

**Disciplines** *(see attached list of disciplines codes (1))*

**Keywords** *(suggest up to five keywords related to the contents of your proposal):*

**Dates** *(see attached list of available dates)*

First choice:

Second choice:

**Coordinator(s):** *(usually the proponent acts as coordinator. There may be two coordinators - but not more than two)*

**1. Family name, First name:**

Affiliation and address:

Phone:

E-mail:

Web page:

**2. Family name, First name:**

Affiliation and address:

Phone:

E-mail:

Web page:

**PROPOSED LECTURERS** *(tentatively):*  
*(not more than six as a rule, including the Coordinator/s)*

Name, affiliation, subject of the lectures, number of lectures and brief indication of the contents of the individual lectures each lecturer would present *(extend space for writing if necessary):*

**1.**

Affiliation and address:

Phone:

E-mail:

Web page:

**2.**

Affiliation and address:

Phone:

E-mail:

Web page:

**3.**

Affiliation and address:

Phone:

E-mail:

Web page:

**4.**

Affiliation and address:

Phone:

E-mail:

Web page:

**5.**

Affiliation and address:

Phone:

E-mail:

Web page:

**6.**

Affiliation and address:

Phone:

E-mail:

Web page:

**PROPOSAL ABSTRACT:**

*Aim and detailed description of the course (extend space for writing - no less than one page, no more than two).*

**Poster/workshop:**

A time slot on the first or second day for a short "poster/workshop" session might be included, in which the participants are invited to introduce themselves and to present their current research project.

**The course is addressed to** *(kinds of attendees particularly expected: doctoral students, young researcher, senior researchers, practicing engineers, technologists, others .... ):*

### Publication and dissemination

All lectures could be recorded together with the presentation slides. These recordings will be used by CISM for dissemination purposes.

In addition, CISM aims to publish a bound volume containing the proceedings of the course. This volume will appear in the series of CISM books "Courses and Lectures" published and distributed by Springer.

Therefore, the course coordinators are kindly requested to take the role of book editor and all lecturers are kindly requested to publish the lecture notes, possibly revised and expanded, in the book.

**Do you accept the commitments of being editor?**

Yes ☐

No ☐

**Date and Signature of the Proponent(s):**

(1) Discipline Codes - *Choose up to four discipline codes from the enclosed list. Enter them in the order of relevance to the proposal:*

- 01 CONTINUUM MECHANICS
- 02 FINITE ELEMENT METHODS
- 03 COMPUTATIONAL MECHANICS
- 04 KINEMATICS AND DYNAMICS
- 05 VIBRATIONS OF SOLIDS AND STRUCTURES
- 06 WAVE MOTIONS IN SOLIDS
- 07 IMPACT ON SOLIDS
- 08 WAVES IN FLUIDS
- 09 SOLID FLUID INTERACTIONS
- 010 ASTRONAUTICS
- 011 ACOUSTICS
- 012 SYSTEMS THEORY AND DESIGN
- 013 PATTERN RECOGNITION
- 014 COMPUTATIONAL TECHNIQUES
- 015 SYSTEMS AND CONTROL APPLICATIONS
- 016 SOFTWARE, EXPERT SYSTEMS, ARTIFICIAL INTELLIGENCE
- 017 ROBOTICS
- 018 ELASTICITY AND VISCOELASTICITY
- 019 PLASTICITY AND VISCOPLASTICITY
- 020 COMPOSITE MATERIAL MECHANICS
- 021 STRUCTURAL STABILITY
- 022 SOIL MECHANICS
- 023 ROCK MECHANICS
- 024 FRACTURE AND DAMAGE MECHANICS
- 025 MATERIALS TESTING AND STRESS ANALYSIS
- 026 STRUCTURES
- 027 DAMS AND TUNNELS
- 028 MACHINE DESIGN
- 029 RHEOLOGY
- 030 HYDRAULICS

|     |   |
|-----|---|
| 031 | INCOMPRESSIBLE FLOW                                 |
| 032 | COMPRESSIBLE FLOW                                   |
| 033 | RAREFIED GAS FLOW                                   |
| 034 | MULTIPHASE FLOWS                                    |
| 035 | BOUNDARY LAYERS                                     |
| 036 | INTERNAL FLOW                                       |
| 037 | FREE SHEAR LAYERS                                   |
| 038 | FLOW STABILITY                                      |
| 039 | TURBULENCE  |
| 040 | ELECTROMAGNETO FLUID AND PLASMA DYNAMICS            |
| 041 | AERODYNAMICS  |
| 042 | MACHINERY FLUID DYNAMICS                            |
| 043 | FLOW MEASUREMENTS AND VISUALIZATION                 |
| 044 | THERMODYNAMICS                                      |
| 045 | HEAT AND MASS TRANSFER                              |
| 046 | COMBUSTION  |
| 047 | GEOMECHANICS  |
| 048 | EARTHQUAKE MECHANICS                                |
| 049 | ENVIRONMENTAL MECHANICS                             |
| 050 | BIOMECHANICS  |
| 051 | GLOBAL POSITIONING SYSTEM                           |
| 052 | GEODESY   |
| 053 | MULTIFIELD PROBLEMS                                 |
| 054 | EXPERIMENTAL MECHANICS                              |
| 055 | MATERIAL PARAMETERS IDENTIFICATION                  |
| 056 | DIAGNOSIS OF STRUCTURAL DAMAGES BY INVERSE ANALYSIS |
| 057 | MICROMECHANICS AND MEMS                             |
| 058 | NANOMECHANICS AND NEMS                              |

**Please find here below the dates available for 2021**

*(Kindly indicate your 1st and 2nd choice)*

**1<sup>st</sup>      2<sup>nd</sup>**

|                          |                          |                            |
|--------------------------|--------------------------|----------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(April 12 - 16)</i>     |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(April 19 - 23)</i>     |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(April 26 - 30)</i>     |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(May 03 - 07)</i>       |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(May 10 - 14)</i>       |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(May 17 - 21)</i>       |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(May 24 - 28)</i>       |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(June 07 - 11)</i>      |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(June 14 - 18)</i>      |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(June 21 - 25)</i>      |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(June 28 - July 02)</i> |

- |                          |                          |                                    |
|--------------------------|--------------------------|------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(July 05 - 09)</i>              |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(July 12 - 16)</i>              |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(July 19 - 23)</i>              |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(July 26 - 30)</i>              |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(August 30 - September 03)</i>  |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(September 06 - 10)</i>         |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(September 13 - 17)</i>         |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(September 20 - 24)</i>         |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(September 27 - October 01)</i> |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(October 04 - 08)</i>           |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(October 11 - 15)</i>           |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(October 18 - 22)</i>           |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>(October 25 - 29)</i>           |