



UNIVERSITÀ  
DI PAVIA

Training Course

## ABAQUS/EXPLICIT: ADVANCED TOPICS

(Organized by CompMech@UniPV and SIMULIA)

**Dordine Ingegneri**  
provincia di Pavia



The course emphasizes practical skills and techniques that are needed for analyses with Abaqus/Explicit, from theoretical concepts to actual industrial applications to reinforce the concepts and issues discussed in the lectures.

More info: <http://www.3ds.com/products-services/simulia/services/training-courses/course-descriptions/abaqusexplicit-advanced-topics/>

Course provides 15 credits (CFP) for Engineers of Italian National registry.

### Location

Department of Civil Engineering and Architecture, Polo Cravino – University of Pavia.

### Registration

Participants need to register by sending an e-mail to the Secretariat (see details below). To complete the registration, a scan copy of the bank transfer is required.

**Course fee: € 1.000,00**

The course will be held with a **minimum number of 5 participants**. If the course won't take place, the registration fee will be refunded 100%.

### Payment

For **private registration** – bank transfer to  
**Dipartimento di Ingegneria Civile e Architettura**  
**UBI Banca SPA - Strada Nuova 31/C - 27100 Pavia**  
**IBAN: IT33U03111130000000046622**  
**SWIFT CODE: BLOPIT22776**

**Purpose of payment: Abaqus Course + attendee's name**

For **public institution** – bank transfer to  
**Dipartimento di Ingegneria Civile e Architettura**  
**Banca d'Italia**  
**INSTITUTION CODE: 81001**  
**CURRENT ACCOUNT: 37198**

**Purpose of payment: Abaqus Course + attendee's name**

## COURSE PROGRAM

Day	Lesson	Time	Location
05/06	Lesson 1: Overview of Abaqus/Explicit	10:00 – 12:00	D7 room
	Lecture 1.1 Explicit Dynamics Algorithm and Theory (Prof. A Reali)		
	Lunch	12:00 – 13:30	
	Lesson 2: Elements	13:30 – 15:00	D7 room
	Coffee Break	15:00 – 15:15	
	Lesson 3: Contact Modeling	15:15 – 17:00	D7 room
	Workshop 2: Impact of a Dodge Caravan Bumper Against a Rigid Barrier	17:00 – 17:30	D7 room
06/06	Lesson 4: Quasi-Static Analyses	09:30 – 11:00	D7 room
	Coffee Break	11:00 – 11:15	
	Workshop 3: Quasi-static Analysis of a Rubber Bushing	11:15 – 11:45	D7 room
	Lesson 5: Constraints and Connections	11:45 – 13:30	D7 room
	Lunch	13:30 – 14:45	
	Lesson 6: Impact and Postbuckling Analyses	14:45 – 16:30	D7 room
	Coffee Break	16:30 – 16:45	
	Workshop 4: Crushing of a Tube	16:45 – 17:15	D7 room
07/06	Lesson 7: Material Damage and Failure	09:30 – 11:30	D7 room
	Coffee Break	11:30 – 11:45	
	Lesson 8: Importing and Transferring Results	11:45 – 13:30	D7 room
	Lunch	13:30 – 14:45	
	Workshop 5 Bird Strike Simulation	14:45 – 15:15	D7 room
	Coffee Break	15:15 – 15:30	
	Questions & Answers session	15:30 – 17:00	D7 room

### Secretariat

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E-mail: [sonia.padovan@unipv.it](mailto:sonia.padovan@unipv.it)

