

# NCTS Short Course on Computational Mechanics and Applied Mathematics

**Time** 2/10~4/28 (Fri.) 10:00~12:00. (2/24 14:00 - 16:00, 4/21 9:00-11:30)

**Venue** 2/10, 2/24, 3/3~4/7 清大綜合三館4樓Lecture Room B  
4/14~4/28 台大次震宇宙館509教室

## Course Background & Purposes

Professor Goong Chen will visit NCTS during Jan. 31-April 30. During this period, he plans to give weekly or bi-weekly lectures on various topics related to computational mechanics and applied mathematics at NTHU or NCTS to broad audiences with backgrounds in mathematics, physics, aerospace and mechanical engineering, and virology. Naturally, he welcomes any discussions with graduate students, faculty members and other researchers from universities and organizations in Taiwan.

## Course Outline

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| <p><b>1</b>   <b>Modeling and simulation of the submarine implosion problem</b><br/>10:00AM-12:00 on 2/10;<br/>2:00PM-4:00PM on 2/24 at NTHU</p> | <p><b>2</b>   <b>Modeling and simulation of airplane crash and safety</b><br/>10:00AM-12:00 on 3/3, 3/10 at NTHU</p> | <p><b>3</b>   <b>Computational biomechanics related to animal shapes</b><br/>10:00AM-12:00 on 3/17, 3/24 at NTHU</p>                |
| <p><b>4</b>   <b>Chaotic vibration of the wave equation in higher dimensional domains</b><br/>10:00AM-12:00 on 3/31, 4/7 at NTHU</p>             | <p><b>5</b>   <b>Introductory lectures on quantum computing</b><br/>10:00AM-12:00 on 4/14, 4/28 at NTU</p>           | <p><b>6</b>   <b>Structural microbiological modeling and simulation of the Covid-19 virus</b><br/>9:00AM-11:30 AMon 4/21 at NTU</p> |

## Course Speaker

**Goong Chen**  
Texas A&M University



Registration

## Organizers

<b>Tai-Chia Lin</b>	National Taiwan University
<b>Sze-Bi Hsu</b>	National Tsing Hua University
<b>Chang-Yuan Cheng</b>	National Pingtung University
<b>Chang-Hong Wu</b>	National Yang Ming Chiao Tung University
<b>Feng-Bin Wang</b>	Chang Gung University

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