Asian Center for Engineering Computations and Software Development

ACECOMS provides professional training and education for practicing engineers based in many countries, particularly in Asia. Training sessions provide both theoretical background to the computational analysis and design aspects of civil and structural engineering projects, and hands-on practice on the effective use of computing tools and software. The training also helps professionals to be well-informed with recent developments in computing and other aspects of their profession.

Publications

ACECOMS disseminates practical information and knowledge through the publication of books, training manuals, technical notes, and technical reports.

Technical Reports include outcomes from research and consultancy projects as well as specialized technical information regarding particular problems and issues.

Software Manuals/Training Notes refer to special topics, step-by-step examples, and training notes written for the effective application of various software developed and promoted by ACECOMS.

Books and Magazine Articles are written and published to provide greater and deeper understanding of key topics relevant to ACECOMS.

Number of participants who attended trainings/workshops: 700+
Number of days the events were held: 18+
Number of training/workshop events conducted: 200+
Number of countries where events were held: 8,000+

Hands-on practice on the effective use of computing tools and software. The training also helps professionals to be well-informed with recent developments in computing and other aspects of their profession.

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Join us
The Asian Center for Engineering Computations and Software (ACECOMS) was established in 1995 as one of the first centers of excellence at the Asian Institute of Technology (AIT). ACECOMS aims to provide an impetus to the research in engineering computations, the development of quality computer software tools for engineering applications, and training on their effective use.

ACECOMS and AIT Solutions work together to extend services in customized software solutions specific to the technical and engineering applications and deliver expert training programs as well as support for selected international software.

AIT Solutions

AIT Solutions (AITS), formerly AIT Consulting, was established at the Asian Institute of Technology (AIT) with the aim to increase the application of science and technology for the socio-economic development in Asia. The mission of AIT Solutions concentrates on establishing higher scientific, engineering, and technological standards; developing innovative solutions; and collaborating with public and private organizations by providing integrated solutions based on AIT’s research, knowledge, and expertise.
ACECOMS and AIT Solutions work together to extend services in customized engineering applications, and training on their effective use. Engineering computations, the development of quality computer software tools for software.

Established in 1995 as one of the first centers of excellence at the Asian Institute of Technology (AIT), ACECOMS aims to provide an impetus to the research in regional promotion and support, and information dissemination in their respective regions. ACECOMS acts as a link and hub for these organizations in developed countries such as the United States, the United Kingdom, and Australia and countries in this region including Bangladesh, Bhutan, Cambodia, India, Indonesia, Lao PDR, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, and Thailand.

At present, ACECOMS has a network of more than one thousand individual members from over forty countries that benefit from and participate in the activities of the center.

ACECOMS develops new software, customizes existing commercial programs, and helps improve software-related research output at AIT. ACECOMS GEAR, one of the software initiatives developed by ACECOMS, is comprised of nearly thirty modules for assisting engineers with routine design work. ACECOMS was also involved in the professionalization of existing programs such as GRASP and SDL-1.

ACECOMS partners with Computers and Structures Inc., (CSI) in the regionalization, regional promotion and support, and development of high-quality software tools for structural and earthquake engineering in countries such as Myanmar, Philippines, Sri Lanka, and Thailand.

Software Development and Promotion

ACECOMS coordinates its efforts with several esteemed institutions and organizations in the region. These institutions, known as Associates and Associate Centers, act as key partners that support by jointly organizing various activities including localization of software, trainings, research, technology transfer and sharing, and information dissemination in their respective regions.

Associations, Networking, and Membership
ACECOMS, founded in 1995, is one of the first centers of excellence at the Asian Institute of Technology (AIT). Its mission is to promote the application of science and technology for socio-economic development in countries such as Myanmar, Philippines, Sri Lanka, and Thailand. ACECOMS aims to enhance research and technology transfer in these regions.

### Consultancy Services

ACECOMS acts as a link and hub for these respective regions. It offers services by providing integrated solutions based on AIT's research, knowledge, and expertise. These services include standards development, innovative solutions, and collaboration with public and private organizations.

### Research

ACECOMS seeks to increase the output at AIT by providing consultation and support. It helps improve software-related research and helps professionalize existing programs. ACECOMS customizes existing commercial programs, develops new software, and assists engineers with routine design work. ACECOMS was also involved in the work on establishing higher scientific, engineering, and technological standards; developing innovative solutions; and collaborating with various organizations in developed countries such as the United States, the United Kingdom, and Australia.

### Key Experts and Resources

- **Dr. Naveed Anwar**
  - Executive Director, AIT Solutions
  - Director, ACECOMS, Faculty, Structural Engineering, School of Engineering and Technology, AIT

- **Prof. Pennung Warnitchai**
  - Earthquake Engineering Expert
  - Associate Professor, Structural Engineering, School of Engineering and Technology, AIT

- **Engr. Keerati Tunthasuwattana**
  - Head, The Asian Center for Engineering Computations and Software (ACECOMS)
  - AIT Solutions, AIT

- **Engr. Thaung Htut Aung**
  - Head, Civil & Structural Engineering Unit, AIT Solutions, AIT

- **Dr. Pramin Norachan**
  - Coordinator, Civil & Structural Engineering Unit, AIT Solutions, AIT

- **Mr. Jonathan Manuel**
  - Head, Software Development & IT Unit, AIT Solutions, AIT

### Laboratories and Centers

#### Structural Engineering

- Testing and analyses
- Research and development
- Dynamic testing and research

#### Wind Tunnel

- High frequency force balance measurement of buildings
- Measurement of aerostatic and aerodynamic response of long span bridges
- Wind turbine test

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Professional Training and Continuing Education

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Number of participants who attended trainings/workshops
8,000+

Number of days the events were held
700+

Number of training/workshop events conducted
200+

Number of countries where events were held
18+

Publications

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