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# Aj. Dr. Titiya Chomngern



## Lecturer

titiya.cho@mfu.ac.th

## About me

I'm a qualified networking specialist lecturer with extensive experience in systems design and specialize in designing the prototype structure of web systems. I advise students on system design and techniques for creating technology for education, taking a time of 10 years to study expertise to be useful in teaching so that students receive maximum benefit.

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## Education

- 2018 - 2022 Doctor of Philosophy Program Information Technology, Faculty of Information Technology for Communication, Rangsit University, PathumThani
- 2010 - 2012 Master of Science, Information Technology, Special Network and System Management, Mahanakorn University of Technology, Bangkok
- 2004 - 2008 Bachelor of Science, School of Information Technology, Mae Fah Luang University, Chiang Rai

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## Work Experience

2009 - 2016 Triple T Broadband Public Company Limited

- Training Contact Center
- Training Team Leader Contact Center
- CRM Team Leader
- QA Team Leader

2022 - current Mae Fah Luang University

- Lecturer of the Digital Technology for Business Innovation subject program
- Lecturer of the Digital and Communication Engineering subject program

## Key Skills

- Information Management and Knowledge Management Systems
  - Network Security and Cyber Security Systems
  - Information Technology and Business Analyst Online Systems
  - Google Sheet, AppSheets, MySQL, SQL Server
  - MATLAB, Network media
  - Basic configuration of router (Switch CISCO) & Wireless LAN using Cisco IOS
  - Commands, Building Arduino-Based Projects for IoT, IFD Diagram
  - Marketing Knowledge Management, AI
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## Academic Services/Guest Speaker

- Training activities for academic preparation for the Exit Exam
- Training on Information Technology Literacy (IT Literacy)
- Training course on developing teaching and learning potential and creating Chinese language learning technology media at Panpittayakhom School
- Training on classroom research activities for teachers in Chiang Rai Province
- Upskill & Reskill training activities on the topic of developing creative thinking skills in Creative Thinking
- Training on creating modern learning with technology for teachers in Chiang Rai Province

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- Training on creating modern learning with technology, techniques for motivating Gen Z learners, and designing classroom research

## Academic Consultant

Academic Conference) 2024

- Reviewer, The 8th International Conference on Information Technology (IEEE) 2023
- Reviewer, The 7th International Conference on Information Technology (IEEE)

## Research Consultant

### Networks and Network Security

- Software-Defined Networking (SDN) Protocols for 5G
- Wi-Fi 6E Technology in a Dense Device Environment
- Securing IoT Networks with Blockchain Technology
- Edge Computing Networks
- IPv6 and IPv4 Protocols Networks
- DDoS Attacks in 5G Networks Using Artificial Intelligence (AI)
- Development of Security Protocols for the Internet of Things (IoT)
- Threat Analysis and Prevention
- Software-Defined Networking (SDN) Wireless Networks
- Security in Hybrid Cloud Systems
- Blockchain Technology
- Detection and Prevention of Cyberattacks
- Industrial Control Systems (ICS) Using Machine Learning

### Educational Technology

- Adaptive learning platform using Artificial Intelligence
- Impact of Virtual Reality Technology on learning science subjects
- Blended learning system
- Blockchain Technology to manage and verify learning outcomes
- Development of a mobile application on active learning
- Promote computational thinking skills

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## Multimedia Technology

- Development of a personalized multimedia content recommendation system
- Deep Learning techniques
- Augmented Reality technology
- Development of a new video compression technique
- Analysis and design of digital content ● Automatic 3D animation tool using Artificial Intelligence

## Information Systems and Management

- Decision Support System
- Cloud Computing Technology
- Intelligent Knowledge Management System for Learning Organizations
- ERP System
- Cybersecurity Risk Assessment Model

## Research Publications

- Chomngern, T. (PI), 2023-2024, Prototype Structure Design Process Using Information Flow Diagram (IFD) for Mobile Application Learning System Research Fund, Center of Excellence in AI and Emerging Technology, Thailand
- Tawunwot, W., Chomngern, T. (2023). Prototype Structure Design Process Using Information Flow Diagram (IFD) for Mobile Application Learning System. 7th International Conference on Information Technology, InCIT 2023, pp. 492–497. [IEEE]
- Rukhiran, M., Chomngern, T. , Netinant, P.(2023). Insights from a dataset on behavioral intentions in learning information flow diagram capability for software design. Data in Brief, 49, 109307 New York. [SCOPUS]
- Chomngern, T. , Netinant, P. (2017). A mobile software model for web-based learning using information flow diagram (IFD). ACM International Conference Proceeding Series, pp. 243–247. [SCOPUS]
- Chomngern, T. , Netinant, P. (2017). Conceptual Framework: Information Flow Diagram (IFD) A Mobile Software Model on Web-Based Learning. 2017 International Conference on Information Technology, December 27-29, Singapore. [SCOPUS]

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- The Future of Connectivist Learning with the Potential of Emerging Technologies and AI in Thailand: Trends, Applications, and Challenges in Shaping Education Charoenchai Wongwatkit; Nontawat Thongsibsong; Titiya Chomngern ; oraya Thavorn. Journal of Learning Sciences and Education.ปีที่ 2 ฉบับที่ 1 (2023).

## Publication

**Company Name, Location** - *Job Title*

MONTH 20XX - PRESENT

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- Aenean ac interdum nisi. Sed in consequat mi.

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## Contact Me

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