

Curriculum Vitae

1. Personal information

TAI BANDISAK, E-mail: bandisak.t@gmail.com

Tel. 086-6896156, Date of birth: March 04, 1984 Age: 35

Sex: Male, Nationality: Thai, Religion: Christianity, Marital status: Single

Military: Exempted (Military Studied)



2. Work Experience

2.1 Post-doctoral researcher

Drug Delivery System Excellence Center Faculty of Pharmaceutical Sciences, Prince of Songkla University, 2016 to 2018

- Pharmacokinetic modeling for pharmaceutical technology development
- Medicine process development

2.2 Electrical Engineer

Faculty of Engineering, Prince of Songkla University, 2016 to present (Energy management in industrial factory)

- Promotion, support and regulate of energy conservation, Department of Alternative Energy Development and Efficiency Ministry of Energy (food beverage and tobacco industries)
- Promotion of energy conservation in small and medium sized industries in Southern Andaman Provincial Cluster supported by Department of Alternative Energy Development and Efficiency, Ministry of Energy
- Promotion, Energy block grant, Department of Alternative Energy Development and Efficiency Ministry of Energy
- Promotion, Matching fund (Suratthani cancer hospital), Department of Alternative Energy Development and Efficiency Ministry of Energy

2.3 Electrical Engineer (2018 to present)

Federal Consulting Engineers Co., Ltd., 2018 to present.

- PSU Science Park
 - Consultant (Electrical engineer)
- Faculty of Allied Health Science
 - Consultant (Electric engineer)

3. Education

- 3.1. Ph.D. (Electrical Engineering), Prince of Songkla University 2016
- 3.2. M.Eng. (Electrical Engineering), Prince of Songkla University 2009
- 3.3. B.Eng. (Electrical Engineering), Prince of Songkla University 2007

4. Skills

Mathematical modeling, Non-invasive instrument design using optotronic technique, Research and development, Pharmacokinetic modeling, physiologically based pharmacokinetic modelling.

5. Awards

- 5.1 Excellent thesis of Faculty of Engineering, Prince of Songkla University. (Master degree), 2009
- 5.2 Excellent thesis of Physical sciences, Prince of Songkla University. (Master degree), 2009
- 5.3 Best paper award, The 3th Electrical Engineering Network 2011
- 5.4. The Youth's Electronics Circuit Contest 2012: YECC 2012. (Staff from Department of Electrical Engineering, Faculty of Engineering, Prince of Songkla University)
- 5.5 The Youth's Electronics Circuit Contest 2013: YECC 2013. (Staff from Department of Electrical Engineering, Faculty of Engineering, Prince of Songkla University)

6. Publications

- 6.1 Tai Bandisak, Sawit Tanthanuch, Booncharoen Wongkittisuksa, State Space Model Optimization for Hyperbilirubinemia Management using Truncated Balance Realization, Walailak Journal of Science & Technology, Vol. 13 Issue 4, 2016.
- 6.2 Parinya Parinyanut, Tai Bandisak, Piyawan Chiengkriwate, Sawit Tanthanuch, and Surasak Sangkhathat, Digital camera image analysis of faeces in detection of cholestatic jaundice in infants, Article in African Journal of Paediatric Surgery 13(3):131 · July 2016

7. Conference

- 7.1 The study of model order reduction for servofluane compartment model optimization, 3rd International Conference on Electronic Design (ICED), 2016
- 7.2 Salbutamol dry powder inhalers pharmacokinetics modeling for asthmatic volunteers, the international conferences of the 5th Current Drug Development 2018 (CDD 2018) and the 3rd Herbal and Traditional Medicine 2018 (HTM2018).

8. Patents

- 8.1 Real time capacitive affinity sensor, Application No. 901000618, Application Date 4-FEB-2009
- 8.2 Portable Nitrogen and Chlorophyll measurement device, Application No. 1703001309, Application Date 2-MAY-2017

9. Interest

Biomedical engineering, biomedical instrument design, mathematical modeling, physiologically based pharmacokinetic, non-invasive measurement technique.

10. License for Professional Practice

Associate Electrical Engineer (Power)