

陳淑娟 教授



學歷	:	中山大學電機工程博士
研究室	:	中正嶺校區大禹樓 268 室
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研究領域	:	行動通訊天線設計、天線工程、微波工程

※個人學歷：

學校名稱	國別	主修學門系所	學位	起訖年月 (西元年/月)
中山大學大學	中華民國	電機工程學系	博士	自 2008/09 至 2012/07
國防大學 中正理工學院	中華民國	電機系 電子工程研究所	碩士	自 2002/08 至 2004/06
中正理工學院	中華民國	電機系電機組	學士	自 1994/08 至 1998/11

※個人經歷：

服務機構	服務部門/系所	職稱	起迄年月(西元年/月)
國防大學 理工學院	電機電子工程學系	教授	自 2019年12月迄今
國防大學 理工學院	電機電子工程學系	副教授	自 2016/8至2019/12
國防大學 理工學院	電機電子工程學系	助理教授	自 2012/12 至 2016/07

※研究領域：

1. 行動通訊天線 設計	2. 天線工程	3. 微波工程	4. 電磁理論
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※教授課程：

大學部	1. 電磁學	2. 電磁波
	3. 微波工程	
碩士班	1.天線設計與分析	2. 天線工程
	3.電磁理論	
博士班	1.電磁波傳播	2.平面式衛星與行動通訊天線
	3.天線設計特論	

※ 歷年獲獎：

指導學生競賽獲獎：

1. 113 年指導學生參加由經濟部主辦 2024 通訊大賽-通訊天線系統設計競賽，榮獲深化合作獎。
2. 112 年指導學生參加由經濟部主辦 2023 通訊大賽-通訊天線系統設計競賽，通過企業檢核獎。
3. 111 年指導學生參加由經濟部主辦 2022 通訊大賽-通訊天線系統設計競賽，榮獲亞軍、共創合作獎、聯發科技特別獎及評審團特別獎。
4. 110 年指導學生參加由經濟部主辦 2021 通訊大賽-新世代 5G+用戶端與小基站天線系統設計競賽，榮獲亞軍、聯發科特別獎及啟基科技特別獎。
5. 109 年指導學生參加由經濟部主辦 2020 通訊大賽-5G 多天線系統創新設計競賽，榮獲季軍及英業達特別獎。
6. 108 年指導學生參加由經濟部主辦 2019 通訊大賽-5G 及物聯網天線及系統創新

設計競賽，榮獲冠軍。

7. 107 年指導研究生參加經濟部舉辦之「2018 通訊大賽-5 G 多天線系統設計競賽」，榮獲「季軍及仁寶特別獎」。
8. 106 年指導研究生參加經濟部舉辦之 2017 通訊大賽-5G 多天線系統及 IOT 天線設計競賽，榮獲亞軍及英業達特別推薦獎。
9. 105 年指導研究生參加經濟部舉辦之 2016 通訊大賽-4G/5G 智慧終端裝置天線設計競賽，榮獲季軍及耀登科技特別獎。
- 10.104 年指導研究生參加經濟部舉辦之「2015 通訊大賽 -4G/B4G 智慧終端裝置天線設計競賽」，榮獲「冠軍」、「亞軍」及「聯發科特別獎」。
- 11.103 年指導研究生參加經濟部舉辦之「2014 通訊大賽-4G 智慧終端裝置天線設計競賽」，榮獲「評審團特別獎」。

※ 論文著述：

(A) 期刊論文：

1. Shao-Hung Cheng*, **Shu-Chuan Chen**, Yu-Jen Chen, and Chiang-Lung Liu, "Compact Asymmetric T-Feed Closed-Slot Antennas for 2.4/5/6 GHz WiFi-7 MIMO Laptops," *Electronics* 2024, 13(13), 2430, June 2024.
2. S. H. Cheng*, **Shu-Chuan Chen**, C. S. Wu, and J. Y. Nieh, "Application of Switchable 4G/5G Dual Antenna System for Laptops," *IET Microwaves Antennas & Propagation*, vol. 18, no. 2, pp. 116 - 127, Dec. 2023.
3. Chih-Chung Lin, Shao-Hung Cheng, **Shu-Chuan Chen**, and Cheng-Siang Wei, "Compact Sub 6 GHz Dual Band Twelve-Element MIMO Antenna for 5G Metal-Rimmed Smartphone Applications," *Micromachine* 2023, 14(7), 1399, Jul. 2023
4. **Shu-Chuan Chen**, Chang-Sheng Wu, Shao-Hung Cheng*, and Chih-Chung Lin, "Compact Sub 6 GHz Slot Multiantenna System for 5G Laptops," *Micromachines* 2023, 14(3), Mar. 2023.
5. Chow-Yen-Desmond Sim, Jayshri Kulkarni, Shr-Hua Wang, Shi-Ying Zheng, Zhi-Hao Lin, and **Shu-Chuan Chen**, "Low Profile Laptop Antenna Design for Wi-Fi 6E Band" *IEEE Antennas and Wireless Propagation Letters*, Vol. 22, No. 1, pp. 79 - 83, Jan. 2023.
6. **Shu-Chuan Chen**, Kuan-Yi Li, and Chih-Kuo Lee, "Compact Dual-Band MIMO Monopole Dual-Antenna System for 5G laptops," *International Journal of Microwave and Wireless Technologies*, pp. 1-9, Oct. 2022.
7. **Shu-Chuan Chen**, Wun-Siang Cai, Chung-I G. Hsu, and Lung-Chi Chou, "Low-profile WLAN MIMO PIFA Antenna System for Laptops with Large Screen," *IETE Journal of*

Research, Vol. 68, No. 2, pp. 990 - 998, 2022.

8. **Shu-Chuan Chen**, Jia-Le Zhu and Chung- I G. Hsu, "Compact closed-slot eight-antenna system for 5G laptops with a metal back cover", *International Journal Of Communication Systems*, pp. 1 - 12, Sep. 2021.
9. **Shu-Chuan Chen**, Sheng-Min Li and Bo-Xun Lai, "Compact Configured 5G Dual-Band MIMO Loop Antenna System", *IETE Journal of Research*, pp. 1 - 10, Sep. 2021.
10. **Shu-Chuan Chen**, Jia-Le Zhu and Chung- I G. Hsu, "Compact Double Shorted Loop Sub-6-GHz Dual-Band MIMO Quad-Antenna System" *IEEE Access*, Vol. 7, pp. 114672 - 114679, Aug. 2021.
11. **Shu-Chuan Chen**, Jo-Yen Nieh, Wei-Hsiang Liao & Sheng-Min Li, "DTV/LTE antennas with no physical structure for laptop computers" *Journal of Electromagnetic Waves and Applications*, Vol. 35, No.11, Apr, pp. 1448-1463, 2021.
12. **Shu-Chuan Chen**, and Sheng-Min Li "Reconfigurable narrow open-slot LTE MIMO antennas for metal-rimmed smartphone applications," *Journal of Electromagnetic Waves and Applications*, Vol. 35, No.11, Apr, pp. 1477-1492, 2021.
13. **Shu-Chuan Chen**, and Kuan-Yi Li "Integrated Planar LTE MIMO Dual-antenna System on Laptop Computer's Hinge" *IETE Journal of Research*, pp. 1 - 10, Feb. 2021.
14. **Shu-Chuan Chen**, Meng-Kai Wu, Cheng-Wei Chiang, and Ming-Shing Lin, "3.5-GHz four-element MIMO antenna system for 5G laptops with a large screen-to-body ratio," *Journal of Electromagnetic Waves and Applications*, Vol. 34, No. 9, pp. 1195-1209, Sep. 2020.
15. **Shu-Chuan Chen**, Lung-Chi Chou, Chung- I G. Hsu, and Sheng-Min Li, "Compact Sub-6-GHz Four-Element MIMO Slot Antenna System for 5G Tablet Devices," *IEEE Access*, Vol. 8, pp. 154652 - 154662, Aug. 2020.
16. **Shu-Chuan Chen***, Chong-Wei Liou, Chung-I. G. Hsu, and Ming-Chan Hsu, "Integrated planar inverted-F antenna on laptop computer's hinge for 2.4/5.2/5.8-GHz WLAN operation," *Journal of Electromagnetic Waves and Applications*, Vol. 34, no. 6, pp. 715-725, Mar. 2020.
17. **Shu-Chuan Chen**, Cheng-Wei Chiang, and Chung- I G. Hsu, "Compact Four-Element MIMO Antenna System for 5G Laptops," *IEEE Access*, Vol. 7, pp. 186056 - 186064, Dec. 2019.
18. **Shu-Chuan Chen**, and Ming-Chan Hsu, "LTE MIMO Closed Slot Antenna System for Laptops with a Metal Cover," *IEEE Access*, Vol. 7, pp. 28973 - 28981, Mar. 2019.
19. **Shu-Chuan Chen**, Wun-Siang Cai, Chung-I G. Hsu, and Meng-Kai Wu, "low-profile switchable LTE/WWAN MIMO antenna System," *Journal of Electromagnetic Waves and Applications*, Vol. 33, no. 4, pp. 474-492, Apr. 2019.
20. Saou-Wen Su, Cheng-Tse Lee, and **Shu-Chuan Chen**, "Very-Low-Profile, Triband, Two-Antenna System for WLAN Notebook Computers," *IEEE Antennas and Wireless Propagation Letters*, Vol. 17, No.9, pp. 1626-1629, Sep. 2018.
21. Jo-Yen Nieh, Wei-Ming Syu, **Shu-Chuan Chen** and Ching-Cheng Wang, "Long-term evolution coupled-fed loop antenna installed in the hinge slot region of a laptop computer," *Journal of Electromagnetic Waves and Applications*, Vol. 32, no. 14, pp. 1801-1815,

May 2018.

22. Saou-Wen Su, Cheng-Tse Lee, **Shu-Chuan Chen**, and Chen-Shuo Fu, "Compact, Printed, Tri-Band Loop Antenna With Capacitively-Driven Feed and End-Loaded Inductor for Notebook Computer Applications," *IEEE Access*, Vol. 6, pp. 6692-6699, Jun. 2018.
23. **Shu-Chuan Chen**, Po-Wei Wu, Chung-I G. Hsu, and Jia-Yi Sze, "Integrated MIMO Slot Antenna on Laptop Computer for Eight-Band LTE/WWAN Operation," *IEEE Transactions on Antennas and Propagation*, Vol. 66, No. 1, pp. 105-114, Jan. 2018.
24. Kai-Jen Chuang, Wei-Ming Syu, **Shu-Chuan Chen** and Ching-Cheng Wang, "Switchable non-physical LTE/WWAN antenna," *Electronics Letters*, Vol. 53 No. 17 pp. 1169–1170, Aug. 2017.
25. **Shu-Chuan Chen**, Chih-Chia Huang, and Wun-Siang Cai, "Integration of a Low-Profile, Long-Term Evolution/Wireless Wide Area Network Monopole Antenna into the Metal Frame of Tablet Computers," *IEEE Transactions on Antennas and Propagation*, Vol. 65, No. 7, pp. 3726-3731, Jul. 2017.
26. **Shu-Chuan Chen**, Chih-Chia Huang, and Ming-Chan Hsu, "Reconfigurable long-term evolution/wireless wide area network antennas integrated with the metal frame of tablet computers," *Journal of Electromagnetic Waves and Applications*, Vol. 31, No. 15, pp. 1609-1623, Jul. 2017.
27. **Shu-Chuan Chen**, and Chen-Shuo Fu, "Switchable Long-Term Evolution/ Wireless Wide Area Network/ Wireless Local Area Network Multiple-Input and Multiple-Output Antenna System for Laptop Computers," *IEEE Access*, Vol. 5, pp. 9857–9865, May 2017.
28. Cheng-Tse Lee, Saou-Wen Su, **Shu-Chuan Chen**, and Chen-Shuo Fu, "Low-Cost, Direct-Fed Slot Antenna Built in Metal Cover of Notebook Computer for 2.4-/5.2-/5.8-GHz WLAN Operation," *IEEE Transactions on Antennas and Propagation*, Vol. 65, No. 5, pp. 2677-2682, May 2017.
29. **Shu-Chuan Chen**, Yun-Tsan Lee, and Po-Wei Wu, "Small Embedded LTE/WWAN Antenna Integrated with Keyboard Ground Plane in a Laptop Computer," *International Journal of Microwave and Wireless Technologies*, Vol. 9, No. 4, pp. 959-964, May 2017.
30. **Shu-Chuan Chen**, Jia-Yi Sze and Kai-Jen Chuang, "Isolation enhancement of small-size WLAN MIMO antenna array for laptop computer application," *Journal of Electromagnetic Waves and Applications*, Vol. 31, No. 3, pp. 323-334, Mar. 2017.
31. **Shu-Chuan Chen** and Yu-Chuan Tsou, "Long-Term Evolution/ Wireless Wide Area Network Monopole Exciter Antenna for Slim Laptop with Full Metal Cover," *Electronics Letters*, Vol. 52, No. 10, pp. 794-796, May 2016.
32. **Shu-Chuan Chen** and Yu-Chuan Tsou, "Bandwidth Enhancement of a Monopole Exciter by Using a Chip-Inductor-Loaded Shorted Strip," *Journal of Electromagnetic Waves and Applications*, Vol. 30, No. 11, pp. 1481-1492, Nov. 2016.
33. **Shu-Chuan Chen** and Yu-Chuan Tsou, "Small-Size LTE/WWAN Two-Strip Monopole Exciter Antenna Integration with Metal Covers," *IEEE Transactions on Antennas and Propagation*, Vol. 64, No. 8, pp. 3707-3711, Aug. 2016.
34. Yan-Yu Nian, **Shu-Chuan Chen**, Meng-JeyYouh, Chang-Pin Chang, Zhi-Yu Luo , Ming-Der

- Ger, " Inkjet Catalyst Printing and Electroless Ni-P Deposition for Fabrication of WWAN Antenna on PC/ABS Substrate," *International Journal of Electrochemical Science*. Vol. 11, pp. 9662-9775, Oct. 2016.
35. **S. C. Chen** and K. L. Wong, "Low-profile, small-size WWAN handset antenna close integration with surrounding ground plane," *Microwave Opt. Technol. Lett.*, vol. 54, pp. 623-629, Mar. 2012.
 36. K.L. Wong, Y.W. Chang and **S.C. Chen**, "Bandwidth enhancement of small-size WWAN tablet computer antenna using a parallel-resonant spiral slit," *IEEE Trans. Antennas Propagat.*, vol. 60, Apr. 2012.
 37. **S. C. Chen** and K.L. Wong, "Small-size wideband chip antenna for WWAN/LTE operation and close integration with nearby conducting elements in the mobile handset," *Microwave Opt. Technol. Lett.*, vol. 53, pp. 1998-2004, Sep. 2011.
 38. **S. C. Chen** and K.L. Wong, "Wideband monopole antenna coupled with a chip-inductor-loaded shorted strip for LTE/WWAN mobile handset," *Microwave Opt. Technol. Lett.*, vol. 53, pp. 1293-1298, Jun. 2011.
 39. **S. C. Chen** and K.L. Wong, "Hearing aid-compatible internal LTE/WWAN bar-type mobile phone antenna," *Microwave Opt. Technol. Lett.*, Vol. 53, pp. 774-781, Apr. 2011.
 40. **S. C. Chen** and K.L. Wong, "Planar strip monopole with a chip-capacitor-loaded loop radiating feed for LTE/WWAN slim mobile phone," *Microwave Opt. Technol. Lett.*, vol. 53, pp. 952-958, Apr. 2011.
 41. K. L. Wong and **S. C. Chen**, "Printed Single-Strip Monopole Using a Chip Inductor for Penta-Band WWAN Operation in the Mobile Phone," *IEEE Trans. Antennas Propagat.*, vol. 58, pp. 1011-1014, Mar. 2010.
 42. **S. C. Chen** and K. L. Wong, "Bandwidth Enhancement of Coupled-Fed On-board Printed PIFA Using Bypass Radiating Strip for Eight-Band LTE/WWAN Slim Mobile Phone," *Microwave Opt. Technol. Lett.*, vol. 52, pp. 2059-2065, Sep. 2010.
 43. **S. C. Chen** and K. L. Wong, "Small-Size 11-band LTE/WWAN/WLAN Internal Mobile Phone Antenna," *Microwave Opt. Technol. Lett.*, vol. 52, pp. 2603-2608, Nov. 2010.

(B) 研討會論文：

1. Chih-Kuo Lee*, **Shu-Chuan Chen**, Jo-Yen Nieh, and Kuan-Yi Li, "Dual Band MIMO Monopole Antenna System for 5G Laptops," URSI GASS 2023, Sapporo, Japan, 19 – 26 August 2023.
2. **Shu-Chuan Chen**, Chih-Kuo Lee, and Sheng-Min Li (2021, Nov.) Compact Multi-Input Multi-Output Loop Antenna System for 5G Laptops, SAP 2021 International Symposium on Antennas and Propagation (2021 ISAP), Taipei, Taiwan.
3. **Shu-Chuan Chen**, Lung-Chi Chou, Chung-I G. Hsu and Sheng-Min Li (2020, Aug.) Compact Sub-6-GHz MIMO Slot Antenna System, International Workshop on Electromagnetics (iWEM 2020), Penghu, Taiwan.
4. **Shu-Chuan Chen**, Chong-Wei Liou, Chung-I G. Hsu and Jia-Yi Sze (2018, Oct.) An Eight-band WWAN/LTE By-Hinge Printed Inverted-F Antenna on Laptop Computer,

- ISAP 2018 International Symposium on Antennas and Propagation (2018 ISAP), Busan, Korea.
5. **Shu-Chuan Chen**, Jia-Yi Sze, and Wun-Siang Cai (2017, Mar.) Loop antenna for the LTE/WWAN metal-casing laptop computer , 2017 IEEE International Conference on Computational Electromagnetics (ICCEM), Kumamoto, Japan.
 6. Saou-Wen Su and Yi-Ting Hsieh, and **Shu-Chuan Chen** (2017, Oct.)Integration of Very-Low-Profile Slot Antenna into Notebook Metal Cover with Narrow Bezel. ISAP2017 International Symposium on Antennas and Propagation, Phuket, Thailand.
 7. **Shu-Chuan Chen**, Yun-Tsan Lee, and Po-Wei Wu (2016, Oct). Small Embedded LTE/WWAN Antenna for a Laptop Computer. ISAP2016 International Symposium on Antennas and Propagation, Okinawa, Japan.
 8. **Shu-Chuan Chen**, Yu-Chuan Tsou (2016, Mar.) LTE/WWAN monopole antenna for laptop computer applications. 2016 IEEE/ACES International Conference on Wireless Information Technology and Systems (ICWITS) and Applied Computational Electromagnetics (ACES), Honolulu, HI.
 9. **Shu-Chuan Chen**, Jia-Yi Sze, Yi-Chun Chu , and Chen-Shuo Fu, “Reconfigurable LTE/WWAN antenna design,” 2015 International Workshop on Electromagnetics (2015IWEM), Nov. 2015, Hsinchu, Taiwan.
 10. **Shu-Chuan Chen**, Jia-Yi Sze, and Kai-Jen Chuang, “Small-size WLAN MIMO antenna array with high isolation for laptop computer application,” 2014 Asia Pacific Microwave Conference (2014 APMC), pp. 986-988, Nov. 2014, Sendai, Japan.
 11. **Shu-Chuan Chen** and Jia-Yi Sze, “Isolation-improved LTE MIMO antenna for laptop computer applications,” 2014 International Symposium in Antennas and Propagation (ISAP), pp. 425-426, Dec. 2014, Kaohsiung, Taiwan.
 12. Jia-Yi Sze, **Shu-Chuan Chen**, and Yi-Chun Chu, “Small-size LTE/WWAN coupled-fed loop antenna with distributed parallel resonant circuit,” 2014 International Symposium in Antennas and Propagation (ISAP), pp. 497-498, Dec. 2014, Kaohsiung, Taiwan.
 13. **S. C. Chen** and K. L. Wong, “Study of a hearing aid-compatible internal LTE/WWAN bar-type mobile phone antenna,” in 2010 Asia Pacific Microwave Conf., Yokohama, Japan.

※ 研究計畫：

1. 計畫名稱：具空間定位導引之目標指向干擾系統(1/2) (113-2218-E-492-006-)(共同主持人)
起訖年月：2024/10/01~2025/09/30（國科會）

2. 計畫名稱：5G/B5G 終端與小型基站高度整合之 MIMO 寬頻陣列天線技術研究(113-2221-E-606 -006 -)(主持人)
起訖年月：2024/08/01~2025/07/31（國科會）
3. 計畫名稱：下世代「太空-空中-陸地-海洋」整合網路：無縫綠能通訊暨智慧邊緣計算技術(113-2221-E-606-007-)(共同主持人)
起訖年月：2024/08/01~2025/07/31（國科會）
4. 計畫名稱：下垂控制微電網結合智慧型動態下垂係數估測法改善暫態電力品質與系統穩定性(113-2221-E-606-003-MY2)(共同主持人)
起訖年月：2024/08/01~2025/07/31（國科會）
5. 計畫名稱：孫子也打野(113-2515-S-606 -001 -)(主持人)
起訖年月：2024/03/01~2025/02/28（國科會科普產品製播推廣產學）
6. 計畫名稱：強化資通電軍通資站台電磁脈衝及結構安全防護之研究(共同主持人)
起訖年月：2022/01/01~2024/12/31（國防先進科技研究計畫）
7. 計畫名稱：可切換式 4G/5G MIMO 雙天線研究(111-2221-E-606 -003 -)(主持人)
起訖年月：2022/08/01~2023/07/31（國科會）
8. 計畫名稱：能與週邊金屬緊密整合之多頻 5G 多天線研究(110-2221-E-606 -008 -)(主持人)
起訖年月：2021/08/01~2022/07/31（國科會）
9. 計畫名稱：緊密配置之 5G 雙頻帶八天線陣列研究(109-2221-E-606 -016 -)(主持人)
起訖年月：2020/08/01~2021/10/31（國科會）
10. 計畫名稱：應用於移動式裝置之高密度 5G sub-6GHz 天線系統研究(108-2221-E-606 -003 -)(主持人)
起訖年月：2019/08/01~2020/07/31（國科會）
11. 計畫名稱：具高隔離度之第五代行動通訊縮小化多天線陣列研究(107-2221-E-606 -004 -)(主持人)
起訖年月：2018/08/01~2019/07/31（國科會）
12. 計畫名稱：應用於筆記型電腦之低剖面 LTE/WWAN 天線研究(106-2622-E-606 -001 -CC3)(主持人)

起訖年月：2017/06/01~2018/07/31（國科會產學）

13. 計畫名稱：能與週邊金屬緊密整合之多頻小型化天線研究(105-2221-E-606 -002 -)(主持人)

起訖年月：2016/08/01~2017/07/31（國科會）

14. 計畫名稱：應用於具金屬背蓋筆記型電腦裝置之 LTE 天線研究(105-2622-E-606 -002 -CC3) (主持人)

起訖年月：2016/06/01~2017/07/31（國科會產學）

15. 計畫名稱：具高效能之無實體天線研究(104-2221-E-606 -006 -)(主持人)

起訖年月：2015/08/01~2016/07/31（國科會）

16. 計畫名稱：薄形行動通訊裝置之天線研究(102-2218-E-606-002-)(主持人)

起訖年月：(2013/08/01~2014/11/21) (國科會)

17. 計畫名稱：以噴印金屬化製程製造新型玻璃機殼天線之研究(102-2622-E-606-002-CC3) (共同主持人)

起訖年月：(2013/06/01~2014/05/31) (國科會產學)

※ 服務績效：

(A)本校：

1. 112年2月迄今擔任電機電子工程學系系主任
2. 111年1月~113年5月擔任本院職涯發展中心主任。
3. 109年5月~111年11月擔任電機電子工程學系電子組組長。
4. 106年4月~109年4月擔任電機電子工程學系光電組組長。

(B)其它：

1. 2017-2018年擔任ISAP (International Symposium on Antennas and Propagation) International Steering Committee Meeting委員之職務。
2. 2021年 Exhibition & Sponsor Chair, 2021 International Symposium on Antennas and Propagation (ISAP), Taipei, Taiwan.

3. 2019-2020年擔任「IEEE Antennas and Propagation Society Tainan Chapter」會長職務。
4. 2017-2018年擔任「IEEE Antennas and Propagation Society Tainan Chapter」副會長暨財務長之職務。
5. 2015-2016年擔任「IEEE Antennas and Propagation Society Tainan Chapter」財務長之職務。
6. 2013-2014年擔任「IEEE Antennas and Propagation Society Tainan Chapter」Membership development之職務。
7. 2018迄今擔任台灣天線工程師學會理事。

※ 輔導績效：

1. 擔任大學部106年班電機電子工程學系電子組導師。
2. 擔任大學部110年班電機電子工程學系電子組導師。

※ 教學績效：

1. 榮獲106年、107年、108年及111年國防部優良教師。
2. 榮獲109年國防大學優良教師。