

# REGISTRATION FORM

To confirm your registration, please complete this form including payment.

- YES! Please register the following participant(s) for this course
- I am interested but unable to attend. Please put me on your mailing list

Intake : **June 2023**

Venue : **UTMSPACE Johor Bahru (12 DAYS)**

Fee : **RM3,950.00** per pax

## \*DETAILS OF PARTICIPANT ATTENDING THE COURSE :

No.	Name of Participant	Mobile No.	Email	NRIC	Fee (RM)

\*UTMSPACE respects the privacy of its customers with regards to personal data. For further details, please visit: [www.utmspace.edu.my/pdpa](http://www.utmspace.edu.my/pdpa) (Please attach a separate list if necessary)

Total

SPONSORSHIP :  Self-Sponsored  Company-Sponsored

## INDIVIDUAL / COMPANY DETAILS (for issuance of invoice) :

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Contact Person : \_\_\_\_\_ Co. Reg. No\* : \_\_\_\_\_  
\*If applicable

Tel No. : \_\_\_\_\_ Designation : \_\_\_\_\_

Fax No. : \_\_\_\_\_ Email : \_\_\_\_\_

Cancellations received in writing 30 days prior to the programme are eligible for a refund, subject to a 15% cancellation fee. Cancellations received less than 14 days from the date of the programme are not eligible for a refund. However, substitute attendees are welcome. Please note that the speakers and topics are confirmed at the time of printing. However, circumstances beyond the control of the organisers may necessitate substitutions or cancellations of speakers and/or topics. As such UTMSPACE reserves the right to alter or modify the advertised speakers and/or topics.

Authorised Signature\* : \_\_\_\_\_ Date : \_\_\_\_\_

Name : \_\_\_\_\_ Designation : \_\_\_\_\_  
\*Head of Department / Approving Manager

Company Stamp

## MODE OF PAYMENT

### A. Cheque or Bank Draft

Cheque No. / Bank Draft No. : \_\_\_\_\_ Bank/ Branch : \_\_\_\_\_

All crossed cheque / bank draft should be made payable to Account Name : **UTMSPACE**  
Account Number : **8601518228** | Bank Name : **CIMB Islamic Bank Berhad** | Branch : **Taman Universiti, Johor**

### B. Telegraphic Transfer / Local Order

Transaction Date : \_\_\_\_\_ Reference Number : \_\_\_\_\_

| Terms & Conditions Apply |

FOR FURTHER INFORMATION, PLEASE CONTACT:  
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School of Professional and Continuing Education (UTMSPACE),  
No. 34 - 50, Jalan Kebudayaan 1, Taman Universiti, 81300 Skudai, Johor  
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E-mail : [shortcourses@utmspace.edu.my](mailto:shortcourses@utmspace.edu.my) Contact Person : Mr. Nazren / Mr. Ameerrul






# Professional Certificate in Advances of Long Range Surveillance Radar & Tactical Data Link

## SYNOPSIS

Network Centric Operations (NCO) is the current trend in warfare where doctrines and procedures are integrated into the Command, Control, Computer, Communication and Intelligence (C4I) infrastructure that enables exchange of data between all the sensors and assets. Within this framework, the process latency from gathering information on the adversary, exchange of data with the command center and the decision making process can be greatly reduced compared to previous conflicts. This program describes advances in long range surveillance radar, satellite communication and tactical data link that forms the important components in a C4I infrastructure.

Advances in radar technology have resulted in improved detection performance with reliability, reduced electromagnetic signature and enhanced protection from electronic attack. With tactical data link, the role of voice communication in command and control can be minimized with improved situational awareness through confidentiality, integrity and availability of the data transferred. Satellite communication complements tactical data link in keeping the sensors such as radar connected to the C4I infrastructure by providing beyond line of sight coverage. A good understanding of these technologies optimized their utilization as well as keeping them in top operating conditions. History has demonstrated over past conflicts that victory is on the side that controlled the C4I domain.

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Programme :

## Professional Certificate in Advances of Long Range Surveillance Radar & Tactical Data Link

UTMSPACE

Professional Certificate in  
**Advances of Long Range  
Surveillance Radar &  
Tactical Data Link**

### TARGET GROUP

Military, law enforcement, defense industries and any organization that is involved in the procurement, integration and deployment of C4I systems

### COURSE OBJECTIVE

- ◆ To provide fundamental knowledge in radar and communication.
- ◆ To describe to an overview of the various functions and their interactions in radar and communication.
- ◆ To present with an overview of present day applications and future development.



### LEARNING OUTCOME

By the end of the course, students should be able to :

- ◆ Familiarize with the overall concept of operation of radar and communication system.
- ◆ To be able assess the performance parameters of radar and communication system as provided by the manufacturer.
- ◆ To be aware of the current advances in radar and communication technology.

### COURSE TITLE

- ◆ Signal Propagation for Radar and Communications
- ◆ Radar Systems
- ◆ Radar Signal Processing
- ◆ Case Study
- ◆ Satellite Communications
- ◆ Tactical Data Link

### LECTURERS' PROFILES

#### ◆ Dr Ahmad Zuri bin Sha'ameri

Dr Ahmad Zuri bin Sha'ameri obtained his B. Sc. in Electrical Engineering from the University of Missouri-Columbia, USA in 1984, and M. Eng. Electrical Engineering and Ph D both from UTM in 1991 and 2000 respectively. He has retired from service at the Faculty of Electrical Engineering and is currently on contract.

His research interest includes signal theory, signal processing for radar and communications, signal analysis and classification and information security. The subjects taught at both undergraduate and postgraduate levels includes digital signal processing, advance digital signal processing, and advance digital communications.

He has also conducted short courses for both government and private sectors. At present, he has published 150 papers in his areas of interest at both national and international levels in conferences and journals.

#### ◆ Prof. Dr. Jafri B. Din

Prof. Dr. Jafri Bin Din obtained his Bachelor of Science in Electrical Engineering at Tri-State University, U.S.A in 1988 and PhD in Electrical Engineering: Radio Wave Propagation at UTM in 1997. At present, he is the Dean of the Faculty of Electrical Engineering UTM.

His research interest includes Issues on Reliable Communications at Frequencies Bands above 25 GHz in the Tropics, Radio wave Propagation studies for Satellite Communications and Point-to-point Microwave Link, High Altitude Platform Station (HAPS): Implementation Issues in Malaysia and Comparative Study of Rain Attenuation and Fade Duration at Frequencies above 10 GHz in Malaysia and Hungary. He has published 140 papers in his research areas in the national and international conferences and journals.

#### ◆ Assoc. Prof. Dr. Nor Hisham Bin Haji Khamis

Dr. Nor Hisham Bin Haji Khamis obtained his Bachelor of Science in Electrical Engineering at University of Evansville, Indiana, U.S.A in 1988, Master of Engineering Science in Electrical Engineering (Communications) at University of New South Wales, Australia in 1992 and Ph D at Universiti Teknologi Malaysia, Skudai in 2005. At present, he is Head of the Department of Communication Engineering, and Academic Coordinator of Radar Lab, Faculty of Electrical Engineering, Universiti Teknologi Malaysia. His research interest includes Antenna Design and Fabrication and Microwave Engineering.

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