



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

ONLINE SHORT COURSE ON GROUND BASED AIR SURVEILLANCE RADAR

Online Platform
BLACKBOARD COLLABORATE ULTRA

 **3-5 NOVEMBER 2020**

REGISTER HERE: <https://bit.ly/3b3UwNh>

SYNOPSIS

Ground based air surveillance radar is a generic terms that covers all types of radars used for detecting and monitoring the movement of aircrafts over a national air space for a military organization or air navigation service provider. The use of these radars is application dependent among others is to provide early warning of possible intrusion by potential adversary, management of air traffic, provide targeting information for air defence artillery and surface to air missile, and vector fighter jets to the vicinity of the potential intruders. The course will explain the various components that make up a ground based surveillance covering the propagation of signals, antennas, transmitters, receivers and signal processing.


COURSE CONTENTS


- Introduction to radar principle
- Types of radar
- Radar equation
- Effect of operating frequency on radar
- Conceptual radar system design
- MTI radar
- Pulse Doppler radar
- Radar receiver
- Radar transmitter
- Tracking radar
- Sea echo and ground clutter
- Radar antennas

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IN-HOUSE COURSE can be designed in
accordance with organizational requirements

 **CENTRE FOR PROFESSIONAL DEVELOPMENT UTMSPACE**

 07-531 8044 / 019-7773667 (Ms. Nurul Ain)

 07-520 5725

 nurulain@utmspace.edu.my



LEARNING OUTCOMES

At the end of this course, the participants will be able to ;

1. Acquire fundamental knowledge in ground based air surveillance radar.
2. Provide an overview of ground based air surveillance radar and its components.
3. Awareness of present day application and future development.



FACILITATOR

**ASSOC. PROF. DR. NOR HISHAM
BIN HAJI KHAMIS**



Dr. Nor Hisham 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. He is a member of Eta Kappa Nu, and Senior Member, IEEE. At present, he is an Associate Professor at the School of Electrical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM). His research interest includes Antenna Design and Fabrication, Microwave Engineering, and Propagation Studies. He now leads the Sonar Technology and Marine Instrumentation (STAR) Research Group of the Innovative Engineering Research Alliance of UTM.

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

Please tick (/) where applicable

Course Name : **ONLINE SHORT COURSE ON GROUND BASED AIR SURVEILLANCE RADAR**

Date : **3-5 November 2020**

Fee : **RM400.00** per pax
Inclusive of notes and e-certificate

**Prerequisite
Minimum SPM holder with
5 years experience
in the related fields**

***DETAILS OF PARTICIPANT ATTENDING THE COURSE :**

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

(Please attach a separate list if necessary)

*UTMSpace respects the privacy of its customers with regards to personal data. For further details, please visit: www.utmspace.edu.my/pdpa

Total

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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 : _____

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MODE OF PAYMENT

A. Cheque or Bank Draft

Cheque No. / Bank Draft No. : _____

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Account Number : 8601518228 | Bank Name : CIMB Islamic Bank Berhad | Branch : UTM Skudai, Johor

B. Telegraphic Transfer / Local Order

Transaction Date : _____

Reference Number : _____

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FOR FURTHER INFORMATION, PLEASE CONTACT:

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