

SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
COLLEGE OF DESIGN AND ENGINEERING

Website: <https://cde.nus.edu.sg/ece>

Area: Microwave & Radio Frequency

Host: Professor Chen Xudong

Teaching seminar

TOPIC	:	Lessons and Insights from The Development of a Small Satellite at NUS
SPEAKER	:	Mr. Abhishek Rai Research Fellow, Department of Electrical and Computer Engineering, NUS Program Director, Satellite Technology and Research Centre, NUS (STAR@NUS)
DATE	:	Tuesday, 3 October 2023
TIME	:	4.00PM to 5.00PM
VENUE	:	E3-06-08 Block E3, College of Design and Engineering, NUS

ABSTRACT

The accelerated advancement in the development of small satellites has resulted in a major shift to the conventional space industry model. Apart from the commercial and defense industries, academia plays a pivotal role in the Space ecosystem.

With the successful launch and operation of LUMELITE-4 which was developed, assembled, and integrated in STAR@NUS, the testing methodologies adopted for the Telemetry, Telecommand & Control (TT&C) communication links will be evaluated.

Upon launch, ground stations on Earth are used for monitoring, real-time tracking and operation of the satellites. The challenges and constraints encountered while setting up both existing and new ground stations will also be addressed

BIOGRAPHY

Abhishek Rai is a Research Fellow in the Department of Electrical and Computer Engineering (ECE) under the College of Design and Engineering (CDE) in National University of Singapore (NUS). He is one of the founding members of the Satellite Technology and Research Centre in NUS (STAR@NUS) and is presently serving as a Program Director.

Prior to his current role in NUS, he received his BSc (Electrical and Electronic Engineering) and MSc (Communications Engineering) degrees from the School of Electrical and Electronic Engineering (EEE) at Nanyang Technological University (NTU). He has been working on satellite programs since his time as an undergraduate student at the Satellite Research Centre (SaRC) in NTU and was accorded the President's Technology Award (Team) in 2016.

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