

6. Radar Programme

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Summary

Radar is a system used to perform “**radio detection and ranging**”. It has many applications in many fields. For examples, it can be used in the aircrafts and in the airports for air traffic control; it can be used on board of the ships and in the seaports for sea traffic control; it can be used by the police to monitor car speeds for road traffic control; it can be used for weather forecasting and monitoring, geological studies and electronic warfare, etc.

Together with the final year course on “EE4190 - Introduction to Modern Radar” and PhD postgraduate programme on radar technology development (details can be found in the briefing materials), this thematic programme is introduced to cater for the needs for manpower training in the area of modern radar technology for local industries. The active participation of our collaborators (for instances, DSO National Laboratories and Temasek Laboratories) in the projects and the willingness of external organizations to support or fund related research and student projects show the importance of such a technical field to the local industries.

The objective of the programme is to give students an understanding of the principles and operations of radars for different applications. Through the projects done under this thematic programme, we hope that students will be able to appreciate the theories and the practical aspects of a real-world radar system. This appreciation will be very useful when the students move on to take up his final year course on “EE4190- Introduction to Modern Radar” or to pursue his PhD degree through our fully sponsored technology development programme on radar.