Background
Hyperthermia is a treatment of cancer in which high temperature causes direct cytotoxicity or increases the sensitivity of the cancer cell to other treatments.

The most critical part of cancer hyperthermia is the generation of microwave power focused on the target cell while avoiding hot-spot in surrounding tissues.

It is necessary to establish a beamforming at right angles to minimise the focus issue during hyperthermia. Therefore, in this work a tunable phase shifter capable of beam steering shall be investigated on a flexible substrate.

Tasks
- Literature Survey
- Analysis of various phase shifter topologies
- Circuit design (schematic, layout)
- Characterisation (EM simulation)
- Documentation (Thesis)

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