Circular Shaped Microstrip Patch Antenna at 14.6 GHz
ABSTRACT

In this paper, a circular shaped ground-fed patch antenna is designed, simulated, built and tested. The operating antenna frequency is 14.6 GHz with -15.68 dB input and 8.14 dB gain. Furthermore, the antenna does not only have a circular shaped build but also is supported with a triangle, square and column shapes.
EXISTING SYSTEM

• Due to their low-profile and conformable geometry, they are widely used as embedded antennas in handheld wireless devices and military equipment.

• However, intensive research is required to improve the inherent disadvantages of this antenna, such as: narrow bandwidth, low efficiency, spurious feed radiation, poor polarization purity and limited power capacity.
PROPOSED SYSTEM

• In this paper, a circular shaped ground-fed patch antenna is proposed.

• Circular patch is the second most popular shape and can be easily analyzed and modified to produce a range of impedance values, radiation patterns and frequencies of operation.

• Among the four most popular feed techniques, coax-fed method has low spurious feed radiation and is easy to match.
SYSTEM REQUIREMENTS

HARDWARE REQUIREMENTS:

· Processor - intel core i3
· RAM - 2 GB
· Hard Disk - 20 GB

SOFTWARE REQUIREMENTS:

· Ansoft HFSS (High Frequency Structure Stimulator)
REFERENCE


