



PSGR Krishnammal College for Women



GRG TRUST RESEARCH PROJECT

MODELLING AND FABRICATION OF HIGH GAIN MICRO-STRIP PATCH ANTENNA USING POLYMER IMPREGNATED PEROVSKITE MANGANITE MATERIALS

PI: **Dr. N. Priyadharsini**

Co PI: - Nil-

Amount Sanctioned: **Rs. 4,00,000/-**

Year: **2018-2021**

Project outcomes:

- The indigenous design and fabrication of high gain Micro Patch Antenna with excellent microwave absorption as well as high transmittance in microwave frequencies was developed.
- Suitable nano filler with desired electromagnetic properties was obtained.
- A novel Perovin with tailor made electromagnetic properties with low loss characteristics viable for light weight MPA was developed.
- The novel dielectric materials with tunable impedance and variable permeability was introduced for Micro Patch Antenna applications.

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- ❖ Publications: 2 International Scopus Indexed Journals
 - ❖ Conference/ Seminar/ Workshop: 2
 - ❖ Books: -Nil-
 - ❖ Any other achievements: The novel materials with tunable dielectric and permeability property are going to be filed for patent.
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