



# **Sree Narayana Mangalam College, Maliankara**

*(Affiliated to Mahatma Gandhi University, Kottayam)*

## **MoU WITH ACARR and CUSAT**



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## INSTALLATION OF AUTOMATIC WEATHER STATION (AWS)

**About ACARR:** The Advanced Centre for Atmospheric Radar Research (ACARR) located in the main campus of Cochin University of Science and Technology (CUSAT) is funded by Ministry of Earth Sciences, Government of India. It was established in 2015 to undertake leading research in atmospheric science in the tropical monsoon area and to develop sophisticated observational and modeling capabilities in the troposphere and stratosphere for the accurate prediction of Indian monsoon system. It provides advanced techniques to monitor the Earth's atmosphere, including highly sophisticated radar, LIDAR, SODAR, GPS sonde, flux measurement systems, integrated sounding systems etc. These facilities allow researchers to get the detailed information and necessary data for their research programs and can incorporate in numerical weather prediction techniques.

**Description of the programme:** Upon an MoU signed between CUSAT and S.N.M College, Maliankara on 3<sup>rd</sup> November 2021, the ACARR has installed an Automatic Weather Station (AWS) in the college campus for observing weather parameters over Maliankara region. The AWS thus installed is functioning effectively and is successfully providing real time weather information from these area. Head of the department of Botany is serving as the Nodal officer for this project.

### Photos





**Programme outcome:** The AWS measures the precise weather conditions of the coastal areas with the exact calculation of the wind speed, amount of rainfall received and other weather deviations of the area. The equipment functions with solar energy and transfers the data directly from the sensor connected to the AWS to the Radar Research Centre, CUSAT. The weather data collected using the installed AWS is shared with the faculty and staff on request basis from time to time totally free of cost, purely for the purpose of non commercial academic research. The students could utilize the data for their research purpose. The AWS facility is also used for taking up joint research activities between the college and ACARR. The post graduate students and faculties from the college are allowed to use the facilities in the ACARR campus for carrying out dissertation and research work.



The data regarding the weather parameters plot for June 2022-June 2023 from the AWS installed at SNM College, Maliankara are attached below:



