

NMD LAB

M.Sc Assignment-4

Date-02 February 2026

Answer the following questions

1. Open any of the shared rainfall dataset and plot the spatial map by taking the mean along the time dimension.

2. Plot the spatial plots of seasonal mean rainfall.

3. Use the same data to select central India region during JJAS season and take spatial average to plot the time series.

[Hint: For Central India, you may choose, longitude (70, 90), latitude (18, 26)]

4. Calculate rainfall anomaly of the above time series by subtracting the mean of the time series from itself. Plot both the time series and its anomaly on the same plot.

Note: All the plots should preferably have a title, xlabel, ylabel and colorbars (when applicable).

Also use comments besides/ before codes.