



Module PMRF-ISSS050/II/2024

## Scientific Computing using FORTRAN

### Name of the PMRF student

Nikhil Malviya

### Required background of the students taught

The course has no pre-requisite (one should have a laptop/desktop to work with). All are welcome.

### Online session coordinator

Will be chosen from the list of registrants



### Schedule of the module

Start date: 9<sup>th</sup> March 2024 (8:30 am)

Total number of hours: ~12hrs

Day and Time: Every Saturday and Sunday, 8:30 am – 10:30 am (time can be changed later based on the availability of the student)

Mode of teaching: Live online classes

### Details of the content of the module

This is an elementary course on Scientific Computing, and it will cover the following topics :

Introduction to FORTRAN, basic syntax, data type, operations, decisions, loops, array, dynamic array, derived data type, basic input/output, file input/output, procedures, modules, Makefile, and intrinsic functions.

If time permits, we will touch upon some advanced concepts on using LAPACK and BLAS libraries and parallel programming using OpenMP and MPI.

Meeting link: Will be shared later

Registration Link: (Valid till 8<sup>th</sup> March, 2024)

<https://forms.gle/UAreW4TEEyMk6kV98>

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