



Sajjad Azizi

Garching near Munich, 13 March 2025

Certificate of Attendance

Sajjad Azizi has attended the following 3-days online course on 11 – 13 March 2025, 10:00 – 18:00 CET.

Programming with Fortran

This three days online course is targeted at scientists who have little or no knowledge of the Fortran programming language, but need it for participation in projects using a Fortran code base, for development of their own codes, and handling of compilers and libraries. The language is for the most part treated at the level of the Fortran 95 standard; features from later editions of the Fortran standard are limited to improvements on the elementary level.

Topics covered include:

- Elements of Fortran programming
- Model numbers, expressions and assignment
- Procedures (Subprograms)
- Derived types and modules
- Array processing including performance considerations, array intrinsics, interfaces and block constructs
- Fortran environment, scoping rules, initialisations and specifications
- Dynamic data (ALLOCATABLE and POINTER attributes)
- Performance aspects and use of parameterised derived types
- Generic interfaces and operator overloading
- I/O facilities

The course consisted of a combination of lectures, demos and hands-on sessions (net total of 19 hours) and was held by Dr. Gilbert Brietzke and Ivan Pribec (LRZ).

Dr. Volker Weinberg
Head of Education and Training