

Syllabus for 'Industrial training program in CFD solving using SU2

Course phasing

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Sr.No	Course contents	Date	Student Signature
1	Over view of SU2		
2	What is Su2,How it solves a given CFD problem		
3	How to install Su2		
4	Idea about test cases used for setting Bcs		
5	About configuration file		
6	Editing the configuration file		
7	What are Markers how to set them in CFG file		
8	Changing of important parameters in CFG file and their usage		
9	Setting of Physical Governing equation		
10	Setting of Specified turbulence model		
11	Setting of Mathematical problem		
12	Setting of Mach number		
13	Setting of Angle of attack		
14	Setting of Sideslip angle		
15	Setting of Free-stream Conditions		
16	Setting of Reynolds Number		
17	Setting of Reynolds length		
18	Setting of Unsteady simulation		
19	Setting of Dynamic Mesh		
20	Setting of Co-ordinates of motion origin		
21	Setting of Reference origin for moment computation		
22	Setting of Reference length for pitching, rolling and yawing		
23	Setting of Numerical method for spatial gradients		
24	Setting of CFL Number		
25	Setting of Runge-Kutta alpha coefficient		
26	Setting of Total Number of iterations		
27	Input /output file generation		
28	Time step and frequency setting		
29	Importance of parallel computing and restart solution file		
30	Checking all solution data and resolving solver execution errors		