

**II Jai Sri Gurudev II**  
**SJC Institute of Technology, Chickballapur**  
**Department of Aeronautical Engineering**

Day wise Schedule for the **ANSYS Training Programme** starting from  
 26<sup>th</sup> September 2022 to 03<sup>rd</sup> October 2022 in the Department of Aeronautical Engineering.

<b>Date &amp; Day</b>	<b>Session</b>	<b>Time</b>	<b>Content</b>
<b>26.09.2022 &amp; Monday</b>	Morning	9.00 am to 10.30 am	Introduction to fluid dynamics, introduction to ANSYS workbench
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Design modeler 2d sketch creation
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Creating surface for 2d sketches
	<b>Short Break</b>		
<b>27.09.2022 &amp; Tuesday</b>	Afternoon	2.40 pm to 4.00 pm	Creating surface for 2d sketches
	Morning	9.00 am to 10.30 am	Dividing the created surfaces and make ready for mesh
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Dividing the created surfaces and make ready for mesh
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Understanding NACA AIRFOIL
<b>Short Break</b>			
Afternoon	2.40 pm to 4.00 pm	Creating NACA airfoil using 3d curve and creating surface	

<b>28.09.2022</b> <b>&amp;</b> <b>Wednesday</b>	Morning	9.00 am to 10.30 am	Solving the error for unconnected imported airfoil
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Introduction to fluent and solving problem understanding iteration boundary condition
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Creating fluid material and assigning to the domain solving problem and post processing
	<b>Short Break</b>		
Afternoon	2.40 pm to 4.00 pm	Mixing of hot and cold fluid experiment	
<b>29.09.2022</b> <b>&amp;</b> <b>Thursday</b>	Morning	9.00 am to 10.30 am	Creating domain around airfoil, creating c mesh
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Solving problem and post processing solved data understanding pressure and velocity counter
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Solving problems for 2D symmetric and cambered airfoil understanding shear flow pressure and velocity contours
	<b>Short Break</b>		
Afternoon	2.40 pm to 4.00 pm	Solving problems for 3D symmetric and cambered airfoil with different velocity and shear flow	
<b>30.09.2022</b> <b>&amp;</b> <b>Friday</b>	Morning	9.00 am to 10.30 am	Understanding nozzle diffuser and CD nozzle
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Problems on cd nozzle understanding the solver
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Looking at velocity contours with Mach number
	<b>Short Break</b>		
Afternoon	2.40 pm to 4.00 pm	Understanding about shock wave and experiment on shock wave	

<b>01.10.2022</b> <b>&amp;</b> <b>Saturday</b>	Morning	9.00 am to 10.30 am	Introduction to structural analysis
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Understanding basic modeling feature extrude revolve
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Understanding adding and subtracting solid bodies and defining boundary condition and loading condition
	<b>Short Break</b>		
Afternoon	2.40 pm to 4.00 pm	Practice	
<b>02.10.2022</b> <b>&amp;</b> <b>Sunday</b>	Morning	9.00 am to 10.30 am	Viewing stress strain and deflection of created object
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Practicing 3d model for stress and strain analysis
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Understanding about vibration and related problems on vibration
	<b>Short Break</b>		
Afternoon	2.40 pm to 4.00 pm	Solving problem on model analysis	

<b>03.10.2022 &amp; Monday</b>	Morning	9.00 am to 10.30 am	Introduction to spaceclaim, creating basic models using spaceclaim
	<b>Short Break</b>		
	Morning	10.40 am to 12.10 pm	Viewing stress strain and deflection of created object
	<b>Lunch Break</b>		
	Afternoon	1.00 pm to 2.30 pm	Practicing 3d model for stress and strain analysis
	<b>Short Break</b>		
	Afternoon	2.40 pm to 4.00 pm	Practicing 3d model for stress and strain analysis

**Resource Person**

**Course Coordinator**

**HoD**