

ATV (All-Terrain Vehicle) Fabrication – 15 Days Training Course Content.

DAYS	LECTURE	FABRICATION	DESIGN
DAY 1-4	<ul style="list-style-type: none"> Roll cage and chassis Types, usage and material selection Load distribution patterns Welding basics for roll cage fabrication 	<ul style="list-style-type: none"> Cutting members for roll cage Grooves, C cut and grinding Fixture preparation and welding Final touch up and testing 	<ul style="list-style-type: none"> Introduction to CAD/CAM/CAE Basics of SolidWorks Basics of 2D Sketching Sample Sketching Practice 3 D sketching Chassis Design using Weldments module Practice through Daily Practice Sheet
DAY 4-6	<ul style="list-style-type: none"> Suspension system Types and design considerations Selection criteria Designing parameters for suspension Chassis- suspension arm-springs-knuckle 	<ul style="list-style-type: none"> Engine mounting and fitting Required changes to be done Transmission coupling Testing 	<ul style="list-style-type: none"> Modeling components Feature Module Piston, crankshaft, connecting rod

<p>DAY 7-9</p>	<ul style="list-style-type: none"> • IC Engines & Transmission system • Working theories and principles • Major sub-assemblies and their working in unison • Engine-Flywheel-Clutch-Gearbox-Differential 	<ul style="list-style-type: none"> • Suspension assembly • Suspension Mounting • Knuckle fitting and welding 	<ul style="list-style-type: none"> • Design of Helix Assembly in SWx • Assembly features
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<p>DAY 10-11</p>	<ul style="list-style-type: none"> • Steering System • Ackerman's Geometry • Principle of Rack and Pinion • Key Terms for geometry design • Over steering and under steering causes 	<ul style="list-style-type: none"> • Steering column fitting • Trailing arms and tie rods • Adjustments • Testing 	<ul style="list-style-type: none"> • Modeling complex components • Drawings & reports generation
<p>DAY 12-13</p>	<ul style="list-style-type: none"> • Tyres and wheels • Selection criteria • Vehicle layout, 2 & 4 wheel drive • Wheel alignment 	<ul style="list-style-type: none"> • Coupling of wheels to drive shaft • Wheels to trailing arms • Mounting tyres • Alignment of wheels 	<ul style="list-style-type: none"> • Large assembly details • Assembly visualization
<p>DAY 14</p>	<ul style="list-style-type: none"> • Brakes in a vehicle • Braking effort & traction • Types and specific applications • Electrical Systems in a vehicle 	<ul style="list-style-type: none"> • Mounting brakes • Connection of paddles • Mounting Electrical system • Connections and testing 	<ul style="list-style-type: none"> • Large assembly details • Assembly visualization

DAY 15	• Doubts and feedback	• Test Run	
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*All modules will be demonstrated by the means of projects and practice exercises.

*Practice sheets and a handbook will be given to each candidate.

*The training can be customized as per the need of the batch. Any customizations can be discussed with the Technical Manager.

*For any further details, kindly visit the website www.codexdesign.in or write to us at info@codexdesign.in

Thanks,

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