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RC aviation requires a bit of technical knowledge. However, it is not needed for anyone interested in taking up this hobby to be a full-blown pilot or expert in aerodynamics and mechanical engineering. A simple understanding of the physics of flight will do. And sometimes, all it really takes is practice and being able to follow instructions perfectly.

RC helicopter endowed with a collective pitch allows the user to have a simultaneous increase or decrease in the main rotor blades pitch that allows quicker response to any change observed in the lift or vertical thrust. Collective pitch helicopters need to have engine throttle in order to overcome any additional drag. These additional drags are overcome by using more throttle whenever the rotor blades receive more load for pitch enhancement.

The remote transmitter of the RC helicopter will be with a left stick whose purpose will be to control the throttle of the helicopter and the collective vertical thrust or direction. It is also responsible for controlling the pitch of the tail rotor should there be any case of side-to-side directional movements.

To control the cyclical operations of an RC helicopter, radio or remote transmitters also have a right stick control that is able to take care of the vertical up and down movements of the fore and aft cyclic pitches. Aside from this, the right stick control on the radio transmitter will also be responsible for any cyclical side-to-side control of your RC helicopter.

Aside from these independent functions, the RC radio transmitter is also responsible for being able to mix the collective and throttle functions of the RC helicopter. The radio control also mixes the tail rotor, making it important for the entire helicopter and radio transmitter system to be set up properly.

The pitch curve and throttle controls of an RC helicopter in accordance to the dictates of the comfort of the RC pilot. Note however that as a general rule, the throttle of the helicopter must be set up before the pitch curve is set up. Most RC radio transmitters that are designed for exclusive use of the helicopter are endowed with a throttlehold and throttle cut switches.

The throttlehold switch is placed to disconnect the throttle and collective mix. When this switch is flipped, a full collective pitch is applied to the helicopter while keeping the engine idle at the same time. On the other hand, the throttle cut switch is there to turn off the motor.

Several aspects of RC aviation are required to be learned before anyone can be comfortable and confident in flying a helicopter. It is very highly recommended for newbies and beginners to get a fixed pitch helicopter, which is generally easier to use and operate than the collective pitch helicopters. Going with a fixed pitch helicopter will also give any newbie and beginner the chance to understand the basic controls of the helicopter before going on to handling the more complicated collective pitch helicopters. And because it is almost second nature for newbies and beginners to crash, it is highly advisable to go for low cost helicopters until they are ready for the bigger and more expensive ones.

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