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pH requires state measurement □or plant implementation [15]. Measurement o□ pH control is very use□ul in di□ferent applications such as agriculture, □ood processing, biochemical processes and industrial applications. [9] The control objective is to regulate the pH o□ the outward neutral solution, by manipulating the □low o□ the basic solution, (NaOH), mixed with the acid solution, (HNO3), compensating □or the possibility o□ changes in the bu□fer stream, (NaHCO3), which is considered an unmeasurable disturbance. Strong neutralized neutralization control process simulation has been per□ormed, and good control per□ormance is achieved. [10] The ph-process system was developed adequately in terms o□ the supposed application o□ designing a better □orm o□ controller. the general method □or obtaining dynamic equations □or the neutralization process o□ PH in a continuous stirred tank, some point appears in developing neutralization o□ PH. [5]. In maintaining the pH size constantly with the de□ault rate on industrial processes. There is a di□ference in classi□ication □or the pH process. As we know the acid is divided into two groups, weak or strong, so a categorization based on the weakness or strength o□ the acid has been used and the other one is on the output current. It is important to treat these chemical wastes to acceptable pH levels, i.e., the ideal PH is in the number 7. We propose pH 5-11 as the optimum pH range □or the processing, reuse, and disposal o□ ash samples. [11] At the plant the neutralizing process o□ pH is used to neutralize chemical waste products that may arise as a result o□ some manu□acturing process be□ore releasing them to the environment. This is primarily to protect the environment by making sa□e-running water □or marine and agricultural applications, and by avoiding damage to corrosion-related in□rastructure. [2]. For direct measurements in di□ferent literature, models have been presented to illustrate the dynamic behaviour o□ ph processes with batch type models [4]. A PH neutralization is required to exhibit highly nonlinear behaviour and its control is challenging in the hydroponic process and can not be controlled e□fectively with a conventional PI controller. [7] The heavy nonlinear presence in the neutralization process o□ pH makes the problem o□ pH control di□ficult and challenging. Furthermore, the optimum control is very nonlinear. The system requires setting up various parameters with appropriate evolutionary algorithms (EA). This paper presents an unlimited, continuous and single genetic algorithm (GA) [6]. From the idea o□ S. Tu PH (4.5 - 8.0) is used to understand individual and interactive e□fects. plants and P and As uptake are in□luenced by these □actors. Phosphorus is inhibited As the uptake at all □or the Fern crop has a PH value o□ 5.87. [12] Adjustment to PH was per□ormed using 1 mol / L KOH or 1 mol / L HNO3. [13] The □uzzy system in general basically consists o□ □our components: membership □unction (□uzzi□ication), □uzzy rule base, de□uzzi□ication and □uzzy output. In □uzzi□ication, numerical input and output variables are converted into linguistic or adjective terms, and

the corresponding degree o one or more o several membership unctions is determined. [1] Fuzzy Logic is used to control the process o pH (Non-linear process). Fuzzy re ers to the act that the logic involved can deal with concepts partially true. [13] In the pH process, the pH sensor is immersed in water. [2] In previous research the uzzy system was used to model and control complex nonlinear systems or their excellent ability to approximate nonlinear systems. [4]. Fuzzy PID controller tunes PID three parameters with a uzzy controller. Note the oil temperature error e and the error change rate PH as the input variable, and Kp (proportional gain correction), Ki (integral gain correction), Kd (gain correction derivative), which adjusts the parameter value o PID, as the output variable. Thus the overall uzzy controller is two input systems and three outputs. [8]. On the other hand, when applied to ield-adjusted PIDs, which are the result o standard sites [12] Fuzzy Logic Controler allows designers to design and build controllers by orming statements o IF-THEN in the orm o statements. The Fuzzy Logic Controler structure contains our main sections as ollows: Fuzzi ication, in erence mechanisms, ground rules and de uzzi ication, in which the uzzi ication section is used to convert real input to uzzy input. [3] a standard uzzy PID controller, which is ormed using a PID uzzy controller with an integrator and an addition unit at the output. [11]. Many PID controllers based on nonlinear optimization are also proposed or various applications. Proposed modi ied genetic algorithm or optimizing parameters o multi-objective PID controller and Testing it in revolving pendulum system. [7] To test the per ormance o uzzy controllers such as PID, both simulations and experiments o various aqueous acid solutions showing bu fer conditions comprising acetic acid and propionate neutralized in a single CSTR with sodium hydroxide having molar concentration [NaOH] = 0.2 Mol / L [5] For that process with large delay, nonlinearity, etc., it's not easy or conventional PID to achieve the desired per ormance. The Fuzzy Controller adjustment does not rely on an accurate mathematical model and has a major advantage in solving uncertainty. [9] To build a digital control system model with a uzzy PID controller in the SIMULINK modelling package, we will trans er rom the Sources sub-category to the two-block model window. Constant and one Step block, generating the unit step unction; Mathematical Operations - Sum comparison blocks and two Gain blocks. [10]. Fuzzy Logic is used to control the process o pH (Non-linear process). The term uzzy cannot be expressed as "true" or " alse" but as "partially true". [13] The input o the uzzy PD controller is the error e and the pH level change error, a ter the uzzy, output, Kp, and Kd processing that make the PD controller adjust its own parameters according to the error and error rate di erent rom the system [14], [15].