

## MATHEMATICAL MODELLING IN ANAEROBIC PROCESS

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### ABSTRACT

Dynamic models are used to describe the operation of biological wastewater treatment process and to establish the most effective control strategy. These models still require further development since most biological processes are not yet fully understood with respect to interaction of process variables. The optimum performance of any biological wastewater treatment process is to produce a specific effluent with a minimum consumption of energy, materials, etc. therefore the advantage of mathematical modeling of anaerobic process for wastewater treatment stems from the improvement in process performance and potential savings in construction and operating costs. An attempt has been made for the formulation of models for anaerobic process in general and review of various other models available for UASB process.

**KEYWORDS:** Mathematical Modelling, Anaerobic Process, Waste Water Treatment.