



Sambit Shome

Sambit Shome is currently a 2nd year student of B.Sc. Agriculture (honours) at Lovely Professional University, Punjab. He had completed both his class X and XII examination from W.W.A. Cossipore English School, Kolkata.

Sambit has worked as an intern at Global Change Programme, Jadavpur University from 12th June 2017 to 14th July 2017 on the topic "Soilless Culture in Practise". The focal area of enquiry is to depict various types of soilless culture prevalent in today's world and their energy consumption.

Briefly, soilless culture refers to the cultivation of crops in a medium which is free from soil, instead they use growth medium which is directly sprayed in the root zone of the crops or applied in form of a water solution. They can also use other growth material like vermiculite, perlite etc. In this context three methods are followed namely Hydroponics, Aeroponics and Aquaponics. Although they have relatively higher energy consumption nearly 1000 times more than geponics (cultivation in soil) with only 11.7 times increase in production but given the falling land-man ratio soilless culture is becoming a new area for research.

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