



"There is a big world out there where we can have an impact on so many kids to make sense of their education, and have an impact on the world in turn."

— Anne Tham, Founder and CEO of ACE EdVenture Group.



"EDUCATION, like the world of work, must adapt and innovate."
— Stuart Patton, our Global CEO.



Hi!

What's happening in NatureTech ?

VERMICULTURE VERMICOMPOSTING

As part of the enhanced NatureTech syllabus, ACE Biosphere Programme aims to integrate a theoretical and practical learning opportunity in vermiculture and vermicomposting. This idea originated from Joshua and Ryan, the co-founders of The Integrated Farmer and newly appointed consultants of the ACE Biosphere Programme.

In a nutshell, vermiculture is the practice of cultivating annelids commonly known as earthworms while vermicomposting focuses on cultivating annelids to facilitate composting, the breakdown of organic matter to manufacture vermicastings - nutrient-rich organic fertilizer.

The new syllabus in vermiculture and vermicomposting will give ACE Biosphere students opportunities to learn more about annelids which include the biology and its life cycle, its role in maintaining a good soil ecosystem, and sustainable soil management practices. Besides strengthening the students' academic knowledge in Biology, this unconventional syllabus aims to equip students with soft skills such as courage through the handling and maintenance of these annelids.

As such, the school is embarking on setting up a worm farm to achieve this academic goal. The project will start off small by instructing the students to bring food scraps and paper waste to prepare for the worm farm. These gathered material will act as bedding and food for the annelids which will eventually be broken down through the composting process into vermicastings- a humus-like organic fertilizer, rich with bioavailable nutrients for plants.

Students will focus on strengthening their baseline understanding of vermicomposting among which covers the general life cycle of annelids and conducting the basic husbandry of worms. In addition to that, students will also attempt to learn more complex studies of vermiculture and vermicomposting where they will focus on the technical aspects and deeper understanding of vermicomposting. This covers the biochemical composition of compost and vermicastings along with the translation of academic knowledge into business ideation.

The ACE Biosphere Programme advocates nature related studies and welcomes all who are interested in this project. Please approach NatureTech team members if you are interested in this project and would like to know more.

Content by Tr. Ivan and Daniel Loo
Prepared by Jay Chia and Amelia
Edited by Ryan and Joshua
Designed by Tr. Liannie
Checked by Tr. Shyam

