



# VIT<sup>®</sup>

Vellore Institute of Technology  
(Deemed to be University under section 3 of UGC Act, 1956)

## SDG 2 Zero Hunger

### Annual Report 2018-19

2 ZERO HUNGER



End hunger, achieve food security and improved nutrition and promote sustainable agriculture

Vellore Institute of Technology

Vellore – 632014

Tamil Nadu, India

[www.vit.ac.in](http://www.vit.ac.in)

## Report of VIT-Vellore Campus

### GOAL 2: Zero Hunger...

Vellore Institute of Technology is working hard to prepare the student community to work towards various sustainability goals not only in India but the World stage. One of the primary goal in zero hunger effort is to ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production. Our work on potential reuse of textile sludge as fertiliser and for preparation of solid blocks, is one such effort.

Majority of our research work is aimed towards coming up with appropriate interventions that are applicable in the local ecosystem. Physicochemical analysis and economic evaluation of the lake ecosystem - A case study of the lake system in Walajah Taluk, Vellore (India) is an example of research work relevant to the ecosystem. . We also aim to look at how the Information Technology and Automation in Agriculture will empower agriculture in India. Ideas like Crop shop and Solar Based Smart Agriculture with IoT Enabled for Climatic Change and Fertilization of Soil, are steps in that direction.

Zero Hunger goal can benefit greatly by innovative experimental approaches in maintaining the genetic diversity of seeds, cultivated plants and their nutritional value. Our projects on a) Rhizosphere isolate from *Oryza sativa*, *Enterobacter cloacae* VITTPN2, can be a potential plant growth promoting rhizobacteria; and b) Nanoprimering may lead to enhancement of germination and growth in *Oryza sativa*. Additionally works like compatibility study of *azospirillum brasilense* and *pseudomonas fluorescens* in growth promotion of groundnut are also carried out.

Green projects like utilization of floral wastes for the extraction of natural colorants may open new economic avenues for the innovative use of agro-wastes. VIT also conducts training and knowledge fairs for the local farmer community and helps them network to gain access to new technologies. Keeping in view of this important goal, a full-fledged **VIT School of Agricultural Innovations And Advanced Learning (VAIAL)**, has been established.



## Report of VIT-Chennai Campus

### PREAMBLE

Around 1/9<sup>th</sup> of the world population is starving without food and nutrition. Because of urbanization, conversion of agricultural land to plots and due to the lack in the resources for growing the food process results in the poverty. Zero Waste Management of VIT Chennai promotes and develops sustainable and professional waste management system in campus through the mission by promoting resource efficiency over sustainable production and consumption, advancement of waste management through education and training, promoting appropriate, best available technologies and practices and by organizing events to share knowledge and experience in sustainable waste management and climate change mitigation. In addition, all kinds of research and projects have been accomplished for the dissemination of information.

### POLICIES: FOOD AND NUTRITION SECURITY

VIT Chennai researchers are working on developing more sustainable food production methods and achieve its mission through promoting resource efficiency through sustainable production and consumption, Advancement of waste management through education and training. Health club of VIT Chennai provides awareness among all about physical and mental health, awareness about various health issues, its possible treatment and prevention, rendering social service in the form of visits to needy, trying to meet their needs, wastage of food etc, observing various health related days and to highlight its importance, conducting fun events which involve either mental or physical wellbeing, thus stating the importance of health. VIT donates to several Government Disaster funds during various natural calamities and pandemic for meeting the essential purpose for the affected people.



## SUSTAINABLE FOOD PRODUCTION

Students and faculties of VIT Chennai visited Sivananda Orphanage and Home for Old Age based on the Curriculum Ethics and Values and local villages through Sarva Shiksha Abhiyan (SSA), Scheme for Prevention of Alcoholism And Substance (Drugs) Abuse, and various awareness programme for creating consciousness on leading a healthy life, obesity, malnutrition, use of available land for producing our own food, risk factors of using tobacco and liquors. As a part of Zero Hunger programme, an International Conference on Urban agriculture land, food, people agriculture and city: A geographical perspective and has been attended by various faculties and researches of VIT Chennai. The Youth Red Cross club of VIT Chennai inspires, encourage and initiate the student members in all forms of humanitarian activities in order to minimize the human sufferings, alleviation and even prevention, thus contributing to create a more congenial climate for peace.

VITeach is a student run social club at VIT Chennai. Students from different branches and batches come together to teach the children of Aadhi Dravida Nada Middle School, a government school in Melakottiyur, Chennai. The children are taught spoken and written English through engaging, interactive and colorful mediums and several awareness programmes. The club members also organize 'Sunday Kids' sessions for the children of the workers in the campus. At these sessions the children are encouraged to involve in games incorporating the 'Play and Learn' technique. Additionally, over the course of the academic year, events such as Kids Carnival, Wish tree and plays are conducted for the children.

- - -