



VIT[®]

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

SDG-1 Annual Report 2019-20

1 NO POVERTY



End poverty in all its forms everywhere



World Soil Day
5th December

Vellore Institute of Technology

Vellore – 632014

Tamil Nadu, India

www.vit.ac.in





Report of VIT-Vellore Campus

Vellore Institute of Technology (VIT) stands by its vision, '**Transforming life through excellence in education and research**' and plays a direct role in reducing poverty in its community by serving as a major employer in the region and sustains the livelihood of thousands of families interlinked with it. '**Service to the region and world through knowledge and compassion**' is one among its major missions and strives to create impactful people.




33 Undergraduate, 36 Postgraduate and 15 Research Programmes were offered in the academic year, 2019-20. Over 36,000 students, with nearly one-third of them women are the major beneficiaries. More than 1800 faculty serve in educating students from 60 countries as well as from every state in India. **VIT Online learning Institute** (VITOL: <https://vit.ac.in/vitol/>) was started in 2019 with the objective of offering online education to aspiring learners around the Globe.

VIT has been recognized as an **Institution of Eminence** (<https://vit.ac.in/about/ranking-and-accreditation>) by Government of India and aspires to become a global leader. It is focused to work towards rankings and accreditations to serve as a model for other Institutes aspiring to serve the human community and the environment.

Research (<https://vit.ac.in/research>) at VIT is aimed at societal and economic improvement of our country. It directly and indirectly focuses on alleviating poverty and sustainable development. VIT is well recognised by Government organisations, research institutes, mission-critical organisations like defence establishments, the Indian Space Research Organisation (ISRO) and Atomic Research Centres. It offers Ph.D. programmes through its various Schools and also operates through sponsored research with the aids of renowned funding agencies. VIT has always been an innovation driven Institute and has established several research centres to give an opportunity to students to participate in exciting research projects.

Centre for Sustainable Rural Development & Research Studies (CSRSD & RS: <https://vit.ac.in/about/community-outreach>) works towards improving the quality of life of rural people and implements sustainable practices to improve the economic well-being of people living in the rural areas. The centre concentrates on carrying out

extension works through adoption of villages (Unnat Bharat Abhiyan), education (GV school development programme, Life skill development for Government school students), creating entrepreneurship and skill development opportunities, PURA (Provision of Urban Amenities In Rural Areas), empowering women and youth, supporting organic farming, afforestation, protecting environment (Clean River Palar), promoting sanitation and creating credit linkages to tribal farmers for holistic development. It partners with various governmental organisations and helps to uplift the life of rural citizens in the community.

	<p>EAC – Camp I -</p> <p>Total No.of Participants - 100</p> <p>Date: 30.01.2020 to 01.02.2020,</p> <p>Venue: DKM College of Women, Vellore.</p>
	<p>EAC – Camp II</p> <p>Total No. of Participants - 80</p> <p>Date: 10.02.2020 to 12.02.2020,</p> <p>Venue: Thanthi Periyar Institute of Technology, Vellore</p>
	<p>EAC – Camp III</p> <p>Date: 11.03.2020 to 14.03.2020,</p> <p>Total No. of Participants - 110</p> <p>Venue: Islamic College of Women, Vanniyambadi</p>

VIT School of Agricultural Innovations and Advanced learning (VAIAL), (<https://vit.ac.in/schools/vaial>) organizes regular farmers training programmes, outreach and field programmes for the farmers. The School also actively involves in research in agricultural and allied sectors on a techno-commercial scale. The mega event organised annually the AGRI EXPO along with **CSRD** (<https://www.thehindu.com/news/national/tamil-nadu/agri-expo-and-workshop-gets-underway-at-vit/article29858604.ece>) benefits thousands of farmers, in the district. The 5th edition of the expo and workshop, where students and farmers interact with experts on farming activities and get help to increase productivity was organised between the 1st and 2nd of November, 2019. Around **3500** individuals related to agriculture actively participated in the event. Other workshops and trainings during the academic year includes Drones in Agriculture, Water resource management, 2D Resistivity Imaging, A Plausible solution for Engineering and geological problems, Significance of Hydrological intervention in Groundwater Studies, Coconut based integrated farming system, Patenting your inventions, Agripreneurship, Lab Biosafety, Soil Health Water Quality and Remediation, Serological and PCR based detection of Plant viruses, Precision Agriculture Technologies and Challenges and Quality assurance and testing of tissue culture plants.

Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in the Programmes offered by the Institution.

Sample courses of B.Sc.(Hons.) Agriculture aiding in development (<https://vit.ac.in/school/course/vaial/ug>)

Course	Activity taken up as part of the course
BAG2009, Soil and Water Conservation Engineering	Soil and water erosion in and around local region was identified to conserve soil resources
BAG1022, Fundamentals of Horticulture	Implementing cultivation techniques of horticultural crops to improve productivity
BAG1021, Fundamentals of Entomology	Identification of insects to prevent pest attacks on crops
BAG2009, Soil and Water Conservation Engineering	Assessment of flood impacts and mitigation of water erosion related problems
BAG1013, Fundamentals of Agronomy	Analysis of daily temperature to grow suitable crops
BAG1017, Fundamentals of Agricultural Economics	Assessment on analysing crop insurance schemes to aid farmers in choosing the appropriate schemes to protect their crops



VIT School of Agricultural Innovations and Advanced Learning (VAIAL) & Centre for Sustainable Rural Development and Research Studies (CSRDRS)

Agri Expo
Annual Agricultural Expositions



2 days Agri Mela

- 4500 Farmers Participate
- 75 Exhibition Stalls
- Conference Talks by Experts
- Workshops on Agrotechnology
- Experience Sharing by Farmers
- Sale of Organic Agro Products
- Exhibition of Students' Projects
- Display of Research Findings
- Consultancy and Agro Advisory
- Awareness Camp on Agri Loans



Collaborators



Indian Council of Agricultural Research (ICAR)



National Bank for Agricultural and Rural Development (NABARD)



Krishi Vigyan Kendra (KVAFSU)



Tamil Nadu Agricultural University (TNAU)



Department of Agriculture, Govt of Tamil Nadu



Department of Horticulture and Plantation Crops, Govt of Tamil Nadu



Department of Agr. Engineering, Govt of Tamil Nadu



Tamil Nadu Veterinary and Animal Sciences University



Pasumai Vikatan



Makkal TV



Academic Staff College, ASC (<https://vit.ac.in/centers/asc>) is dedicated towards creating a culture of academic excellence and conducting faculty development activities for all our schools and centers at VIT. ASC helps faculty stay updated with the latest developments in teaching, research and technology and thus creates a world class learning environment for our students.



Academic Staff College



FDPs / Workshops Calendar - March 2020

Sl. No	Date	Title of the FDP	Time	Venue
1	02.03.2020	Mastering the Mind II	10.00 am to 5.00 pm	SJT 620
2	02.03.2020	Effective Teaching and Classroom Management	10.00 am to 1.00 pm	MB 210
3	02.03.2020	Constructing Questions for Assessing Higher Order Thinking	2.00 to 5.00 pm	MB 210
4	02-03.03.2020	A complete understanding on machine learning with hands-on learning using SCIKIT learning	10.00 am to 5.00 pm	SJT 107
5	03.03.2020	Good Night Sleep & Stress Detox II	10.00 am to 5.00 pm	SJT 620
6	03.03.2020	Constructing Questions for Assessing Higher Order Thinking	10.00 am to 1.00 pm	MB 210
7	03.03.2020	Effective Teaching and Classroom Management	2.00 to 5.00 pm	MB 210
8	04-05.03.2020	Ethical Hacking and it's Cyber Security	10.00 am to 5.00 pm	SJT 107
9	04.03.2020	Effective Teaching and Classroom Management	10.00 am to 1.00 pm	MB 210
10	04.03.2020	Constructing Questions for Assessing Higher Order Thinking	2.00 to 5.00 pm	MB 210
11	05.03.2020	Awareness of Suicide Prevention and Intervention	10.00 am to 1.00 pm	MB 210
12	05.03.2020	Constructing Questions for Assessing Higher Order Thinking	10.00 am to 1.00 pm	Library Video Conf. Hall
13	05.03.2020	Effective Teaching and Classroom Management	2.00 to 5.00 pm	MB 210
14	06-07-03.2020	Designing Cloud Architecture	10.00 am to 5.00 pm	SJT 107
15	06.03.2020	Research Proposal Writing and Approaches for National and International Grants	10.00 am to 5.00 pm	SJT 507
16	06.03.2020	Effective Teaching and Classroom Management	10.00 am to 1.00 pm	CDMM 113
17	06.03.2020	Constructing Questions for Assessing Higher Order Thinking	2.00 to 5.00 pm	CDMM 113
18	11.03.2020	Carbon Capturisation	10.00 am to 1.00 pm	CDMM 204
19	25.03.2020	Remote sensing and GIS: A journey from a mere tool to an well elaborated science	2.00 to 5.00 pm	Library Video Conf. Hall
20	26.03.2020	Remote sensing and GIS approach for precision agriculture	2.00 to 5.00 pm	Library Video Conf. Hall
21	28.03.2020	LaTex for Researchers	10.00 am to 5.00 pm	Library Video Conf. Hall



Academic Staff College
In Association with
VIT School of Agricultural Innovations and Advanced Learning (VAIAL)

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One Day FDP on
Precision Agriculture: Technologies and Challenges

Resource Person
Dr. Mohammad mehdi
Mechanics of Biosystems Engineering,
Sahlgrenska University of Kerman,
Iran

Takeaways

- > Precision Agriculture Cycle
- > Essential Platforms
- > Yield monitoring system
- > Variable rate technology (VRT)
- > In-field crop and soil sensors
- > Usage of soil compaction meter, GPS and EC meter
- > Economic Challenges with PA

Aug 8th 2019
Video conferencing room in Library
10:00-17:00 (IST)

Resource Contribution
Prof. Saravanan. S
Prof Annie Jennifer. M

Faculty Members and Research Scholars are requested to register through <https://vtop.vit.ac.in/> (Choose EVENTS -> ASC Event Registration)



VIT Community Radio (<https://vit.ac.in/about/communityradio>) 90.8 MHz is an initiative for the empowerment of the Vellore community. Its mission is to build an effective, vibrant and sustainable community and to support development in health, education, environment and agriculture.



Support the Advancement of Rural Students Scheme (STARS: <https://vit.ac.in/stars-support-advancement-rural-students-0>) initiated in the year 2008 aims at enhancing the rural students' quality of life. A rural Government Higher Secondary School graduated male and a female student who are academically brilliant based on their class 12 board marks and financially disadvantaged from under privileged backgrounds are selected from varied districts of Tamil Nadu and sponsored under the STARS scheme with 100% fee waiver for their academic and hostel facilities inclusive of basic medical expenses.

STARS ORIENTATION, 2019





Universal Higher Education Trust (UHET) (<https://www.uhetindia.org/>)

located at VIT, Vellore campus aims towards higher education of higher secondary school underprivileged students in the age group of 18-23 through financial assistance, career guidance, advocacy, networking, educational outreach and skill development. More than 4500 girl students have benefitted from the activities of the trust and they also focus on first generation graduation. Majority of the beneficiaries are enrolled in Arts & Science courses, followed by Engineering and Nursing.

UHET SCHOLARSHIPS DISTRIBUTION, 2019



Career Development Centre (<https://vit.ac.in/placements/pat-Office>) plays an integral role in creating excellent placements for graduating students of VIT. It organises career guidance, placements and internships for final year students in the campus and facilitates training activities to ensure employability. For the academic year 2019-20 the placement record was 84.65%.



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Campus Recruitments (2019 batch)

716 Companies
4394 Students placed
690 Super Dream Placements & Internships *
2494 Dream Placements & Internships **
1210 IT services companies offers

https://twitter.com/vit_univ/status/1134828903808114689

* CTC more than 10 Lakhs per annum.

** CTC more than 4.5 Lakhs per annum.

VIT-Technology Business Incubator (VIT-TBI: <https://vittbi.com/>) was started with initial grant support from the Department of Science and Technology. VIT-TBI has active programs supported by DST, BIRAC (BioNEST) and MeitY (TIDE 2.0) incubation centre and supports Innovative Technology start-ups with access to knowledge, funding, infrastructure, mentoring and network. It majorly functions its schemes and programs through VIT-TBI Prayas centre, VIT-TBI Bio NEST, VIT-TBI TIDE 2.0 centre and VIT-TBI NIDHI Seed.



Students' Welfare (<https://vit.ac.in/campuslife/studentwelfare>) at VIT endeavours to promote, introduce, and expand any and all ventures to shape students minds and promotes daily activities being conducted by the Clubs and Chapters. Students are provided with platforms to hone their skills, cultivate leadership and team-building skills and emerge as better individuals. Various student clubs including Vriksh, Anokha, Ayuda, BIF, FEPSI, Juvenile Care, NSS and YRC function towards holistic societal upliftment.



True Green Project's (<https://vit.ac.in/true-green>) mission at VIT is to save mother earth for future generations through sustainability initiatives for conservation and scrupulous use of natural resources which will help in indirectly eradicating poverty. The project concentrates on waste management, water recycling, hygiene, environmental conservation and greener practices. VIT campuses are lush green and to an extent self-sustainable (**Green VIT:** <https://vit.ac.in/detailview/green-vit>).

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Report of VIT-Chennai Campus

Preamble:

Eradicating poverty is the road for sustainable development cutting across the socio, economic, cultural and political backgrounds of people all over the world. Though globally extreme poverty situation has come down post Globalisation, still millions of people in underdeveloped or developing countries are at the brink of going back to poverty state specifically during the pandemic with more number of small and medium scale industries closing down, lay-offs by industries due to cost cutting measures, fewer job opportunities pose threat to the survival of a section of the population worldwide. The policies or methods adopted for eradicating poverty should have a people-centred approach (pro-poor and gender sensitive policy frameworks) focusing on better living condition, better job opportunities, decent salary and quality education.

STARS (Support the Advancement of Rural Students) :

VIT strongly believes that poverty shouldn't be a barrier for quality education.

STARS (Support the Advancement of Rural Students) scheme is started in VIT Chennai from 2019. This scheme helps children from under

*"A Child should never be deprived of quality education owing to poverty. This forceful thought in my mind became the seed that gave birth to the innovative **STARS** Scheme".*

- Dr. G. Viswanathan, Chancellor, VIT

privileged background with good academic record to get admitted into VIT. Children who aspire to get quality education under the STARS scheme are provided with 100% fee waiver for their academic and hostel expenses. A boy and a girl from rural Govt. Higher secondary schools from each of the districts of TamilNadu are selected based on their 12th standard marks. Most of such selected students are first generation graduates from below poverty line families. The STARS scheme paves way for good career, better social status and most importantly, fine tune them to be responsible citizens.

Enactus @ VIT Chennai Campus:

Members of the Enactus club of VIT Chennai are actively involved in improving the living condition of economically weaker sections through their projects, Ujjwal and Malar.

Project Ujjwal is aimed at combating the social inequality faced by the refugees and Self-help group (SHG) women by providing them a means of income through production and sale of paper bags. Appropriate technical training is provided to them to hone their skills and has resulted in achieving self-sufficiency and self-reliance. Enactus members helped women to sell their products to hotels, retail shops and in our campus super market. Profit made through these sales is equally divided among the workforce.

Project Malar aims at addressing unemployment amongst women in the slums of Chennai through production and sale of incense sticks, The project not only provides employment but also ensures that flowers when they wither does not turn into waste rather ends up as organic incense stick there by enhancing the physical and mental well-being and provides a complete eco system.



PROJECT-UJJWAL



PROJECT-MALAR

Equal Rights:

International Women's day celebration at VIT Chennai had a plethora of events including a panel discussion, martial arts demonstration and various cultural programmes with the motto "Equal rights are fundamental".

Dignitaries signalled “Each for Equal” proving that Equal rights are fundamental to humans and should be rightfully assumed.

Curriculum of Law school covers a wide variety of courses which emphasis on equality at all levels. The course on Environment and Human Rights provides basic understanding about environment and human rights of which Right to Food and Food Security are part of. The course on Right to Education seeks to impart knowledge on the right to education as an important instrument of social control, which enriches human life materially as well as culturally. The course focuses on the nature of the Right to education as a basic human right recognized and protected in a number of international conventions. Emphasis is given on the right to free and compulsory education to all children of the age of six to fourteen years as a fundamental right.

Research Publications:

Faculty, research scholars and students are actively involved in research orientation towards sustainable development. A few are listed below:

- Dr.P.R.L.Rajavenkatesan & Dr.E.Prema, “Sustainable Livelihood of Tribal Communities: The progressive Visions of India“, CLIO- An Annual Interdisciplinary Journal of History, ISSN: 0976-075X, April 2020.
- S.Sarayu Priyadarshini, S.Patchainayagi, “Escape from Reality: An Analysis of Corporate Culture and Quest for Quasi Relationships in the Virtual World”, Indian Journal of Public Health Research and Development, 2019, ISSN: 0976-5506.
- V.Vijayalakshmi & Mr.B.Nagaraj, “Awareness of Human Immunodeficiency Virus (HIV)/Acquired Immunodeficiency Syndrome (AIDS) among the Pregnant Women of Rural areas of Puducherry, India”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), 2019, ISSN: 2278-3075.
- Dr.P.R.L.Rajavenkatesan & Dr.E.Prema , “Solar Power Transforming the Face of Rural India: Climate Justice for All”, IOP Conf. Series: Earth and Environmental Science, June 2020.

- D. Gowrisankar, I. Ajit, Govindarajan P, “Representation of the Women's Financial Stability Portrayed in Selected Post-Feminist Tamil Films”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878
- Ms.S. Gnana Sangamithra, V.Vijayalakshmi, “Changing Trends in Socio-Economic Conditions of Transgender in Chennai City”, International Journal of Engineering and Advanced Technology (IJEAT), 2019, ISSN: 2249-8958.

Outreach Activities :

Students visited a Dalit and tribal hamlet in Kolathur village to understand about the Indian society religion, culture and their community structure as part of the course “Indian Society Structure and Change”. They also interacted with self-help group members.

A visit to Gurukulam, a Trust children school run by a NGO, created awareness amongst our students about the

children who hail from marginalized background and the role of NGO in shaping the lives of these children in imparting education. This visit was a life changing experience for the students in understanding the society.

Students and faculty members of VITeach club, Health Club, Uddeshya, Fine Arts club, ENFUSE, Youth Red Cross, National Service Scheme, Event Managers



Visit to Kolathur Village

Club and Tamil Mandram have organized many extension activities in collaboration with NGOs, Govt. offices etc. which directly or indirectly helps in eradicating poverty. Such outreach activities are carried out under Government schemes such as Sarva Shiksha Abhiyan, Scheme for Prevention of Alcoholism and Substance (Drugs) Abuse, Disability Scheme and Make in India.



Visit to Gurukulam