



திருவள்ளூர் பல்கலைக்கழகம்

THIRUVALLUVAR UNIVERSITY

(State University Accredited with "B" Grade by NAAC)

Serkkadu, Vellore - 632 115, Tamil Nadu, India.



VISION 2030

Prof. Dr. S. THAMARAI SELVI

VICE CHANCELLOR



கற்க கசடறக் கற்பவை கற்றபின்
நிற்க அதற்குத் தக.

(குறள் எண் : 391)

Let a man learn thoroughly whatever he may learn, and let his conduct be worthy of his learning.



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Vision 2030 for Thiruvalluvar University:

Innovating Education in the Era of Industry 5.0

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1. Preamble

Thiruvalluvar University instituted in 2002 is situated in Serkkadu, Vellore on the Chennai-Chithoor Highway. It is located in a pristine environment housing the Administrative Block, Academic Block, Computer Block and Library Block. The Tamilnadu State Government has sanctioned funds for additional buildings to be built in the near future. It has a vast potential for development.

Thiruvalluvar University has seven districts under its jurisdiction, viz., Vellore, Ranipet, Tirupattur, Tiruvannamalai, Villupuram, Kallakurichi, and Cuddalore. These districts are predominantly agricultural districts and most of the students who enroll for higher education in Thiruvalluvar University and its affiliated colleges hail from small villages and small towns. Incidentally, most of the students are first generation learners.

The Thiruvalluvar University Act 2002 has categorically taken this into account which is evident from the following objective:

“to provide for research and for the advancement and dissemination of knowledge with a focus on the economic and social upliftment of oppressed classes including Scheduled Castes, Scheduled Tribes, Most Backward Classes, Denotified Communities and Backward Classes.”
(Section 4 subsection 7)

Thiruvalluvar University is striving hard to reach the unreachable for their upliftment by providing quality education.

The students are the first generation learners of Thiruvalluvar University and also hail from rural, backward and tribal regions having the lowest Gross Enrollment Ratio (GER) in the state of Tamilnadu. The rural community is depending on revenue generated through agriculture and folklore medicines. This University supports the teachers and students to facilitate them to improve the livelihood of this region through innovative research methods for Agriculture and Healthcare services.

Thiruvalluvar University has focused its research on traditional medicine by way of authenticating native medicine for safer consumption. This would in turn ensure proper livelihood for native medicinal practitioners. Thiruvalluvar University has signed MoUs with various institutions such as the M.G.R. Medical University, Akbar Kausar Unani Foundation, National Siddha Institute, National Institute of Unani Medicine and so on. By concentrating on traditional herbal medicine the sustainable development goals such as No Poverty, Zero Hunger, Good Health and Well Being, Decent work and Economic Growth, Industry, Innovation & Infrastructure and Partnership to the goals.

Hence, Thiruvalluvar University is responsible for the identification and encouragement of the great potential for the development of the oppressed classes. Keeping this in view, Thiruvalluvar University is oriented towards enhancing the job opportunities in rural areas by promoting research in the field of innovative agricultural methodologies such as Precision Agriculture and Smart Farming for which education can play a crucial role. This attempt would help improve the economic conditions of the rural areas thereby improving the economic health of the nation. Thiruvalluvar University has signed MoUs with agro based industries to help the farmers in introducing new technology. It facilitates the students by conducting orientation programmes in sericulture, mushroom cultivation and bee keeping. Thiruvalluvar University has taken up the task of developing its programmes in keeping in line with the sustainable development goals such as: No Poverty, Zero Hunger, Decent work and Economic Growth, Industry, Innovation & Infrastructure and Reduced Inequalities.

Further, the seven districts falling under the jurisdiction of Thiruvalluvar University comprise of an age old grazing land in the form of scrub jungles known for its abundant wealth of herbal plants made use of by the local medical practitioners. This is evident from the effective native medicine for Jaundice in Walajah town and effective traditional bone setters in Puthur town near Vellore. There are a large number of traditional practitioners in this region.

Thiruvalluvar University campus maintains a herbal garden with more than 2000 varieties of herbal plants providing materials for research in herbal medicine. Apart from these plants, the campus has a good green cover by way of mango, neem and other trees. The campus is provided with solar power as part of the green initiative of Thiruvalluvar University. The campus has enough water source from bore wells replenished with the rain water harvesting facility. Thiruvalluvar University has oriented itself in the task of developing a paperless environment by introducing complete automation in the Examination Section and in Administration: all registrations for admissions, online registration, generation of hall tickets, entry of marks and the publication of results for examinations and so on. By following such green initiatives Thiruvalluvar University fulfills the sustainable development goals such as Quality Education, Good Health and Well Being, Clean Water and Sanitation, Affordable and Clean Energy, Sustainable Consumption and Production, Climate Action and so on.

Thiruvalluvar University is proud to declare that more than 65% of students enrolled for higher studies are girls, especially first generation learners hailing from rural areas. Sixty percent of students enrolled are from Scheduled Castes, thirty percent from Most Backward Classes and the remaining ten percent are from Backward and other classes. The teaching and non-teaching staff are committed in taking to their work for the welfare of the students of the University. By catering to the needs of the most disadvantaged group of students Thiruvalluvar University has moved in the direction of fulfilling the sustainable development goals such as Quality Education, Gender

Equality, Decent work and Economic Growth, Reduced Inequalities, Peace, Justice and Strong Institution and so on.

2. Vision of Thiruvalluvar University:

To inculcate the students with creative power, adhering to moral and ethics, in consonance with the saying of the sage Thiruvalluvar “Lead them to lead” for social transformation of oppressed community with cultural sustainability.

Mission of Thiruvalluvar University:

- To provide quality Higher Education, by Teaching, Research & Extension.
- To provide quality education to the rural marginalized, down trodden strata of the society.
- To encourage a stimulating environment and sustainable growth.
- To foster integrated Development and make the people conscious of their commitment to the Society.
- To train the students to meet the global challenges
- To provide wide opportunities to women in order to prepare them to be effective leaders.
- To achieve the above mentioned vision and mission of Thiruvalluvar University, An initiative has been taken to accomplished vision 2030 to impact quality education creating innovative learners to later to the needs of Industry 5.0.

Having this in focus Thiruvalluvar University is committed in providing quality education. A detailed plan of action is given below which fulfill the above mentioned sustainable development goals. Thiruvalluvar University has focused its research on traditional medicine by way of authenticating native medicine for safer consumption. This would in turn ensure proper livelihood for native medicinal practitioners. Thiruvalluvar University has signed MoUs with various institutions such as the M.G.R. Medical University, Akbar Kausar Unani Foundation, National Siddha Institute, National Institute of Unani Medicine and so on. By concentrating on traditional herbal medicine the

sustainable development goals such as No Poverty, Zero Hunger, Good Health and Well Being, Decent work and Economic Growth, Industry, Innovation and Infrastructure by means of Partnership to achieve the goals.

3. Roadmap to Enhance Curricular Aspects

Objectives:

1. Curriculum design and development matching Industry 5.0.
2. Academic Flexibility.
3. Practical and skill oriented syllabi.
4. Inculcate lifelong learning.

Current situation and constraints

Currently Thiruvalluvar University is following choice based credit system which provides academic flexibility. To provide practical oriented and skill based approaches the existing infrastructure has to be enhanced to meet out the requirements

Way forward

The board of studies for each programme shall be reformed by including more industrial experts and alumni. the alumni network can be entrusted with the task of strengthening the infrastructure.

4. Roadmap to Improve Research Opportunities

Objectives:

1. Enable Transdisciplinary research.
2. Innovative ecosystem development.
3. Protecting Intellectual Property Rights (IPR).
4. Promotional activities for research

Current situation and constraints

The outcome of the research studies stop with more publications of articles. Many research outputs are not oriented towards finding solution for oriental problems. Also the researchers fail to protect their IPR.

Research resources are not easily accessible to the researchers. Social recognition of researchers does not match their expectations.

Way forward

The research resources shall be provided by the university with the support of sponsored research projects and consultation works. Public private partnership shall be encouraged for establishment of the research infrastructure and providing fellowship. Incentives and awards shall be given for recognizing the good research work.

5. Roadmap to Enrich Infrastructural Facilities

Objectives:

1. Providing basic amenities for students and faculty.
2. ICT enabled Classrooms/ Seminar Halls
3. Providing Infrastructure for Global Access of resources.
4. Maintain green and clean campus.

Current situation and constraints

In most of the higher educational institutions the state of art facilities are not available. There is no uniform distribution of resources.the rate of increase in enrollment ratio in higher educational institutions does not match the funds available.

Way forward

The new institutions may be adopted by the well established institutions for progressing well in the right direction. The new institutions shall be benefitted by sharing the available resources from the well developed institutions.

6. Roadmap to Achieve Students Excellence

Objectives:

1. Encourage distributed /Peer group learning process
2. Learning through activity based and flipped class rooms
3. Evaluation of higher order thinking skills
4. Promoting alumni engagement

Current situation and constraints

The students are restricted to the classroom teaching. They lack analytical skill essentials for gaining employment. The teacher are not given enough opportunities to enrich their knowledge in the state of the art technology. the evaluation process in met testing the higher order thinking skills in most of the institutions. The new institutions are not get the benefits of alumni engagement.

Way forward

ICT enabled teaching learning process shall be encouraged. Periodic faculty development programmes with doctorial committee shall be organized. Industry institute partnership shall be encouraged to bridge the gap between industry and institutions.

7. Roadmap to Innovative Teaching Methodologies.

Objectives:

1. Extending teaching methods to peragogy and heutagogy.
2. Using immersive technologies for effective teaching to create interest in learning.
3. Transfer knowledge to the context with appropriate concept.
4. Encourage instructional scaffolding method to enable active learning.

Current situations and constraints

The current teaching methodologies are not able to impress the students. The students are not able to solve the problems prevalent in the society. The training opportunities for all teachers are very much restricted. The ability to transfer the knowledge is not properly achieved.

Way forward

The ICT enabled training shall facilitate the teachers in large numbers and hence the ICT infrastructure shall be given top priority. Teachers shall be motivated for adopting innovative teaching methodologies.

8. Roadmap to Train the Students For Gainful Employments

Objectives:

1. Facilitate internship for learners
2. Create the atmosphere to know the industry structure.
3. Provide entrepreneur development programmes
4. Facilitate incubating centres for startups.

Current situations and constraints

The quality of education imparted does not fetch suitable employment. There is a trend for seeking government jobs. The skill development for gainful employment jobs. The skill development for gainful employment is lacking in our system.

The existing government jobs are very few compared to the number of students completing the degree. The students are influenced by their parents for selecting the programme as well as employment.

Way forward

The students shall be given an opportunity to know the avenues and various carrier opportunities. The various government schemes supporting the startups shall be introduced to the student. The students shall be motivated to become entrepreneur to improve the employment opportunity.

9. Roadmap to Enhance International Opportunities and Experiences for Students.

Objectives:

1. Encourage students and faculty exchange programmes.
2. Arranging online courses taught by foreign faculty.
3. Research collaboration with foreign research laboratories.
4. Encourage joint research publications and patent.

Current situations and constraints

The international exposure to the students is very much limited to the students also the research collaboration with foreign faculty by the teachers is very less. Due to the limited infrastructural facilities, the students and faculty are not able to meet the international standards.

Way forward

Number of fellowship shall be increased to give opportunity for teachers to have international exposure. faculty exchange programmes shall be encouraged. Students exchange programmes with international research laboratories shall be promoted for letter research opportunities.

10. Action Plan Vision 2030

The road map for vision 2030 deals with the objectives current situation, constraints and way forward for each category. The action plan for mapping the objects of university with sustainable development goals is depicted in Fig 1. as shown next

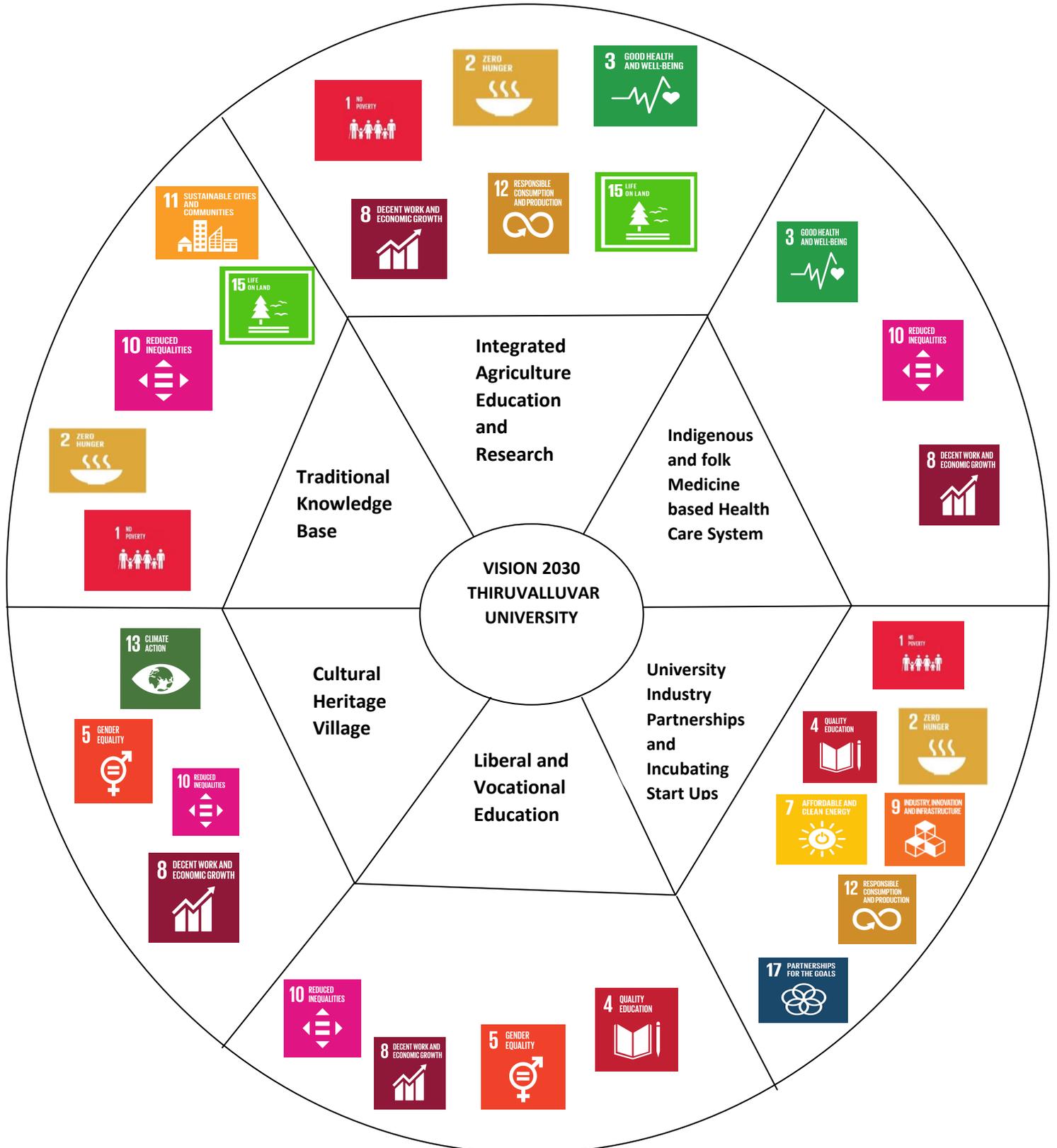


Fig .1.

Vision 2030:Action plan to map objects of University to SDG

Objects and Powers of the University:

1. Integrated Agriculture Education and Research

Agriculture being a composite economic activity, the University shall be encouraged to offer agriculture education and to have strong linkages with all relevant national laboratories and other Universities and in terms of training, business incubation, start-ups, etc. The emphasis shall be to convert farmers to agripreneurs by further expanding agriculture markets with live stock markets.

The University shall engage with the group of farmers within the University area and provide them with know how help mitigate their risks and ways to increase their income the University can take an active role in setting up agricultural technology parks to promote technology incubation and dissemination. Emphasis shall be given to precision agriculture / smart farming and zero budget natural farming techniques that reduce costs, improve land quality and increase farmers' income.

2. Indigenous and Folk Medicine based System

There are a lot of traditional Vaidhyas having indigenous knowledge about common ailments under the jurisdiction of Thiruvalluvar University. It is essential to recognize the indigenous primary health care Vaidhyas through AYUSH, to preserve the traditional knowledge and to transfer this knowledge to the next generation through liberal education.

To establish capacity and capability to validate and assist folk medical practices of the region for delivering affordable healthcare through traditional medicines.

3. University Industry partnership and Incubating startups

The University shall endeavour to engage the mutually gainful and partnership with industrial sectors with the goal of sustainable development of the region.

The University shall set up incubation on entrepreneurs parks for invigorating startups activities of the alumni.

4. Liberal Education and Vocational Education

To institute, maintain and manage to move towards a more imaginative and broad based liberal education as a foundation for holistic development of all students with rigorous specialization with chosen discipline or fields in order to develop deeper expertise in them.

Vocational education shall be fully integrated within mainstream education so that all the students are exposed to vocational education and have the choice to pursue specific streams of vocational education with professional streams and academic disciplines.

5. Cultural Heritage Village

To establish a model Cultural Heritage Village for fostering local art, culture and traditional wisdom with emphasis on members belonging to Backward Classes, Most Backward Classes, Denotified Communities, Scheduled Castes and Scheduled tribes.

6. Traditional Knowledge Base

To gather document and digitalize traditional knowledge prevailing among the communities domicile in the University area with a view to preserve, protect and valorize such knowledge base.

Conclusion

Thiruvalluvar University is aiming to achieve Sustainable Development Goals (SDG) by 2030 through innovating education in the era of Industry 5.0. For this purpose the roadmap and action plans are elaborated.



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அறிவுடையார் எல்லா முடையார் அறிவிலார்
என்னுடைய ரேனு மிலர்.

(குறள் எண் : 430)

Those who possess wisdom, possess everything; those who have not wisdom,
whatever they may possess, have nothing.