

SENGAMALA THAYAAR EDUCATIONAL TRUST WOMEN'S COLLEGE

(Affiliated to Bharathidasan University, Tiruchirappalli)
(NAAC accredited 'A' Grade with CGPA 3.45 / 4.00)

SUNDARAKKOTTAI, MANNARGUDI – 614 016.

TIRUVARUR DISTRICT, TAMILNADU.

**BEST PRACTICES SUCCESSFULLY IMPLEMENTED
BY THE INSTITUTIONS IN THE YEAR 2017 -18**

Best Practice I

Title of the practice

“INTEGRATED AND INTERACTIVE TEACHING-LEARNING PROCESSES”

Goal

To make the teaching learning processes highly effective, proactive and outcome based through involving all stakeholders (inclusive of Management, Teachers, Parents, Students, Corporate Industrialist, etc.) and interaction of subject experts in various fields, and thus enhancing the quality of teaching learning outcome.

Context

In the context of Globalization, Education has become one of the important inputs for producing skilled human resource and often emphasized that the educational institutions are expected to have the responsibility of producing quality based outcome. This needs the integration of stakeholders so as to assess the need. The science subject is fast expanding, and the concepts, theories and practices are often augmented and sometimes changing with the existing context. All these aspects are to be taken in to consideration for the updating knowledge involving subject experts through organized seminars / Conferences / Workshops.

Practice

- **Industry-Institution-Interface** is created and established through Memorandum of Understanding (MoUs).
- **Community** is roped in with curricular practices through Part V activities.
- **Social responsibility** is taken care of through Extension Service activities of various Departments and skill development through Entrepreneurship Development Cell.
- **Subject experts** are brought in and interaction are facilitated through organizing Seminars / Conferences / Workshops / Summer Training Programmes.

Evidence of Success

- The institution has forged 29 MoUs with various academic and research organization, industries and health section.
- The MoU signed organization have actively involved in funding for Seminar / Conferences, facilitated internships, industrial visits, placement, transmitting Lab to Land practices etc.
- Each Department has organized National / International Seminars / Conferences/ Workshops / summer training programmes, etc.
- Two seminar proceedings have been published.
- Created platform for the presentation of research papers 210 were presented in various Seminars / Conferences organized by the institution (INSA, IASc, NAS etc.)
- Science Academies of India sponsored and powered a two day Lecture workshop.
- The Department of Microbiology has conducted free five day summer instrumentation training programme involving students from different colleges.
- Organized ICSSR sponsored seminar

Problems encountered

- Being a self financing institution, raising and accessing funds from funding agencies has become difficult.
- Since most of the students hail from rural based schools, there is parity among the students; some of them are elite (Advanced learners) categories and most of them are under the category of average and slow learners.

Best Practice II

Title

“LAB TO LAND’ RESEARCH PRACTICES”.

Goal

To strategically reorient the research activities of the various Departments of the institution, so as to make them socially relevant.

Context

The institution is located in a rural area. It is also surrounded by the villages. The main occupation of the villagers is agriculture. The research activities of the Departments of Life Science (Microbiology and Biochemistry) are actively engaged in micro organisms and plants oriented research activities. It is well established that these are number of microorganisms could be used as biofertilizers to enhance the productivity and yield of the crop plants. Similarly there are number of plants that could be used to cure various ailments. The phytochemical constituents of such plants are to be elucidated, patented and attempts are to be made for technology transfer and drug development. This clearly indicate that there is an urgent need of concerted efforts on research towards various dimensions of the said aspects.

Practice

- Microorganisms are isolated from various source
- They are screened for potential/beneficial activities such as nitrogen fixation, phosphate solubilization and nutrient uptake, etc.
- Formulations are made with beneficial microorganisms as biofertilizers and delivered to farmers at subsidized cost.
- Vermicompost are prepared and marketed at subsidized cost
- Phytochemical constituents of various medicinal plants are elucidated and attempts are made for formulation of delivery system
- Transformation of lignocellulosic wastes into organic manures is attempted
- Students of M.B.A. evolve strategies for marketing such product

Evidence of success

- **Biofertilizers used as an alternative to chemical fertilizers so as to enhance the soil health**
- **Corpus Fund of a sum of Rs. 26172/- has been created by marketing the product. Delivery systems for various micronutrients have been successfully made and marketed**
- **Tissue cultured banana is produced**
- **An ointment is formulated using plant extracts and applied for patenting**

Problems encountered

- **Sustaining the shelf life of the product through contamination free products**