Title of the Practice – Marian Business Incubation Centre

Objectives of the Practice

To facilitate Skill development, Knowledge creation and Innovation

To provide Training and awareness programs in Entrepreneurship to empower students

The Context

The need to foster the culture of innovation in institution is widely discussed challenge of the current era. To connect industry and academia, the College established the Marian business incubation centre. Through this the College aims to encourage faculty and students to initiate incubation units to develop entrepreneurship skills.

The Practice

The institution has consistently promoted ideas that visualize its vision and mission. The incubation units are Not-for-profit Centre to inculcate the development of entrepreneurship skills. A number of innovative products have been developed by the various subunits of the Marian business incubation centre. Training programs are provided, Entrepreneurship programs are given technical and business advices by faculties of the institution. Various sub-units function under the head of the Marian business incubation centre.

The Entrepreneurship Development Club registered with Directorate of Industries and Commerce, Govt. of Kerala has initiated Udhyammithra Centre. Students are trained in production and sale of Cloth bags, (Bhumika Bags-for a greener tomorrow), Liquid Toilet cleaner, (Clean Wiz), LED Bulbs and Fish Amino. Department of Vocational Studies initiated Amity, an Incubation Centre, through which students undertake preparation of Brochures, posters, flyer, video editing, documentary production for College and other organizations. College Library Website, real time Software and web application for departmental activities were also developed. Under MIRTC initiative of Department of Biochemistry, Easy to carry Emergency Water Purification Cartridge, Master Bin, Multipurpose Compost Bin, Biogenic Wound Healing Material, Herbal Mosquito Repellent, were developed in public interest and has won laurels in the State Level Yuva Mastermind Competition of Malayala Manorama Daily. Go Green initiative produces paper files and other valuable products. Marian Agri Nursery has developed enriched manures for organic farming. Shalabha Centre for butterfly gardening promotes popularization of butterfly garden through extension classes, competitions, generation and distribution of butterfly plants for establishment of butterfly garden in State Museum and Zoo, Thrissur and various institutions Alankara-Ornamental Fish Culture Unit of Zoology Department trains students in fish breeding, culture, aquarium manufacture and sale. Samridhi Food fish culture unit initiated with the seed money sponsored by PTA cultures food fish. Sampoorna, Mushroom cultivation unit of Microbiology Department provides training to students, and public on mushroom and spawn production. Chemistry Department trains students in production and sale of eco-friendly products like paper bags, sanitizers and Herbal Soap through Haritham. Nisarga, initiative of Bhoomithrasena Club (Kerala state plan scheme) trains students in paper file and paper pen making for in-house use. MCAR Incubation Initiatives, provides research assistance for students of the College and neighbouring institutions. MCAR initiative for sustainable agriculture developed novel inexpensive products like SMCNPK18 - Bacterial consortium to enhance soil fertility after the deluge, MECSMC11-

Microbially treated compost to lessen water requisite of plant, GEMS14 (Growth Enhancing Microbial Solution)- Flowering agent, VERMITOL-Advanced bio fertilizer developed using earth worm as an incubator for soil enriching bacteria.

Evidence of success

Incubation hubs have catered to the development of students first-hand experience by providing infrastructure support, mentoring space and learning ecosystems. The development of a number of innovative products are the outcome of effective functioning of the incubation units. The College aims to improve the existing incubation units and expand and connect with industry to keep in pace with the current era challenges.

Problems encountered and resources required -The current situation due to the pandemic has become a challenge for the incubation units. Still brainstorming sessions and training programs has maintained the spirit in the faculty and students to come up with innovative ideas.

Notes - There is good scope for College to develop more subject oriented incubation units whereby students could learn through first hand experience.

Title of the Practice – Technology Assisted Teaching and Learning

Objectives of the Practice

To enhance the quality of Teaching and Learning

To improve access to innovative and advanced academic experiences

To enable students utilise web technology for education

The Context

E learning has currently revolutionised the education sector. It is being experimented to fulfil the expectation of students and the requirements of the teachers. The institution has taken various steps in this context to enable and provide a enriched learning experience for students. Modern methods including computers, networks, audio-visual technology, websites, blogs are being used as channels to share knowledge in an efficient way.

The Practice

The institution ensures effective strategies to get tuned with the changing scenario in the teaching learning process. The advent of ICT has revolutionized academic community. Teachers today have to be equipped with for dealing with new generation of digital natives which necessitates the adoption of technology based teaching methods. The college ensures that its faculty adapt themselves to the changing needs. The college hones the professional skills of teachers through orientation programmes. The college has computer labs, Browsing Centre and Computer Centre to provide internet facilities to all students. The Wi-fi enabled campus provides an atmosphere conducive to virtual learning. All departments possess multiple desktops with printer and internet and intranet facilities. Smart board facilities are available and all classrooms are ICT enabled. ICT enabled seminar halls, Language lab facility enriches the learning experience.

E-content development and recording session are facilitated in media centre and recording room. The College has fully automated library with KOHA software and has a wide collection of books and journals (both print and e-text). The College is a member of NList for e-books and Daisy Forum for audio books for the blind. These facilities enrich the experience of teaching and learning. Online platforms like MOOC, Moodle, YouTube Channels, Marian Webisode SWAYAM NPTEL, blogs, Google classrooms, Google Meet, WhatsApp, and Telegram are used by the faculties as modes of transaction of curriculum. E-contents Developed by faculties are made available at College Digital Library (D-Space) for students to refer. Students are introduced varied website like Pathshala, INFLIBNET, WordPress as additional Sources of information related to their curriculum. Class wise and Subject wise WhatsApp groups are created under the guidance of tutors and concerned faculty. These groups act as interactive platforms. A faculty coordinator, manages the overall functioning of ICT tools. The college is the recognized Local chapter of SWAYAM NPTEL. Coursera Online Learning Initiative had been undertaken by the College since June 2020. Marian Webisode provides space for students and faculty to express their academic ideas and creative skills. The College is enthusiastic in encouraging teachers to participate in various online courses which

empower their teaching methodology with IT skills. Hundred percentage of teachers employ IT tools in teaching learning process.

Evidence of success

Technology based learning witnessed a sea change during the year. The institution very well coped up with the struggles of the covid pandemic through a very effective curriculum delivery through the online mode. Online classrooms met the demands of the students and teaching learning process went undisrupted during the pandemic times. Audio- visual aids provided a means of any-time any-where learning enabling students to download lessons and make learning effective.

Problems encountered and resources required – As many of the students came from socio economically backward families the initial strains for resources of e learning was a challenge for the institution. The institution provided students with learning equipment to bring them to the main stream of online education. Another problem faced was the interruption in internet connection in many remote places.

Notes -Education has changed dramatically through the introduction of technology assisted learning. Online Resources have been developed by the faculty and the students enabling easy effective learning.