

BEST PRACTICES

2018-19

Practice 1:

Title of the Practice: Indigenous Software solutions by in-house Start-ups

Objectives of the Practice: To develop students into entrepreneurs , to inculcate the seed of creativity, to understand the nature of problem and seek a solution, to promote a culture of self-sufficiency

The Context: Nurturing student start-ups and converting ideas into solutions for real-life problems.

The Practice: The BSc IT and the B. Voc. SD departments have a research component as an integral module of their programs. Students are presented with contexts encountered within the institution and are encouraged to come up with innovative solutions for the same. This gives them practice to apply the theoretical concepts in search of these solutions. These solutions are then applied and being within the institution, the student gets a first-hand report of the effectiveness of the solution devised. This also helps in bolstering the confidence of the students as he/she gets to witness the success of his efforts.

Evidence of Success: The software apps which have been designed by the students for the purpose of providing an indigenous solution to institutional requirements are as follows: 1) App for College Exam time-table and Seating Arrangement: Bipin Dubey and Rehan Qureshi (TYIT); 2) App for College Marksheet Generation – Sakina Vora and Tarun Tomar (TYIT); 3) Automated Package – Devashri Veerla (TYIT); 4) Attendance System using RFID – Tasneem Pipalyawala, Kavi Shinde, N Avid Gowani, Rukaiya Sabuwala (SYBVoc); 5) App for Attendance System – Vishnuwardhan (TYBVoc); 6) Marksheet Generation System – Sakshi Sangtani, Anuj Trivedi (TYBVoc); 7) App for Decentralized network – Prajwal Poojari, Aziz Kanorwala, Ujjal Ray, Kalpesh Khandelwal (SYBVoc).

Besides the above, there were several green solutions which were devised: 1) UGV Unmanned Ground Vehicle – Neel Sagar, Umang Nagda; 2) Solar Power bank – Aarushi

Talati, Isha Shah, Himangsho Goyal, Binoli Shah; 3) Green Fuel – Dilshad Khan, Deepak Jha, Inderpal Khalsa, Hitesh Jha

Problems Encountered and Resources Required: They have been manageable. Faculty had to give one on one mentoring and guidance. At times, external experts were also called for guidance. No additional resources were required.

Practice 2:

Title of the Practice: Student Assisted Research Mentorship (SARM).

Objectives of the Practice: To cultivate and promote social science research and academic writing, to equip students with the necessary skills to effectively investigate socio-political occurrences, to actualize a symbiotic learning relationship between students, to promote communication, participation, and collaboration amongst the student cohort, through mentor-mentee interaction.

The Context: Research is an integral part of the teaching -learning process. It imbibes creativity and cultivates an inquisitive nature, both of which stimulate the mind to apply the theoretical concepts into practice. In an effort to inculcate the essential skills of research and academic writing among the students and to complement theoretical learning with comprehensive analysis, the Economics Association piloted a Student Assisted Research Mentorship (SARM) program from December 2018.

The Practice: Interested students (mentees) were divided into small teams of either two to four members. Each of them were then allotted a student mentor. A student qualified as mentor if he/she had prior experience in research and academic writing. Such mentor-mentee relationship served to augment the process through peer learning.

Evidence of Success: When the Economics Association organized the Students' Seminar based on the concept of SARM, the external experts complimented the efforts and endorsed the high standards of the papers presented, in addition to the professional qualities evident in them. All of these nine research papers, each of which conformed to high benchmarks of quality, were then compiled into a Research Compendium. Such a compendium was launched

for the first time by the association. This effort by the Economics Association was also highly appreciated by the Academic Audit team. The learning on the part of both the mentors and the mentees was immense.

Problems Encountered and Resources Required: As it was of a first of a kind in peer mentoring, it required mentoring of the student mentors by the teachers in the initial phase. The students had to be oriented to make them understand their responsibilities and the role required of them.

As it was a concept based solely on peer mentoring, it worked in a cyclic phase. No external funding etc was required.