

## Best Practices

### 1. The Strategy for Advanced Learners

#### **Title of the Practice:**

The Strategy for Advanced Learners

#### **Objectives of the Practice:**

- Department organizes seminars, conferences and provide opportunities for the students to bridge with the academic and leading industry experts.
- Students are intellectually stimulated with various advanced projects, challenging assignments and tasks for their advancement like 24 hours workshops, value added courses and certificate courses.
- Students are given motivational talk by legendary speakers.
- Motivating the advanced learners to enrich their career.
- Soft skills training is offered by placement cell for advanced learners to promote their employability skills.
- 24 hours Workshop series is designed for training the students who are innovators, who have a desire to learn more and also to gain benefits greatly not only from the experts but also through the networking opportunities towards making their career choices.

#### **The Context**

These Workshop series provide participants with a unique learning experience with topics on their relevant domain with necessary seminars which are focused on providing an opportunity for participants to learn first-hand information from the field experts. Each workshop is a springboard to a deeper understanding of technology and its myriad applications and potential for innovation.

#### **The Practice**

This practice enables the students to immerse themselves in the most impactful technology areas existing today during 24 hours workshop. The track for each workshop is designed to make the day as productive and comfortable as possible.

Some of the domains featured include:

- Design and fabrication
- Identification of welding defects
- Pattern making
- Engine assembly and dismantling



- Analysis of mechanical components by ANSYS
- Programming of e- yantra robotic kit
- Rebar detailing and modeling
- Visual database programming

Course content is designed by the concerned department. Each department created their own syllabus and allotted sessions in their domains. Parents are informed about this workshop. The coordinator and faculty members monitored the students keenly during the workshop. All the workshop series documents are recorded and maintained in the department. Feedback from students are collected and reviewed.

### **Evidence of Success**

- Project titled Construction of Rainwater Harvesting in Government Middle School Pulivalam, Pudukkottai submitted by the students of our institution was selected under the State Tamil nadu State Council For Science And Technology– Student Project scheme 2019-20.
- Our student project entitled Auto-Vermi compost Production has won 1st prize in State level Chhatra Vishwakarma Award – 2019 conducted by AICTE
- Our students have won the drone and Rs. 5,000 cash as a prize in the state level e-Yantra Ideas competition for their work on Design and Development of Intelligent Table Top Wet Grinder.
- Our students have won the the cash prize of Rs. 15,000 and Drone in Jallikattu 2.0 Madurai Agri Bussiness Incubation Forum supported by NABAD for their work on IoT based Vermicompost Production.
- Students from the department of CSE participated in the Smart India Hackathon (SIH) 2020 grand finale on 1st, 2nd and 3rd August, 2020. The worryless have won winner title and cash prize of Rs. 1,00,000/- among various national level selected participants for the AK211-BH60M and BH100 electronic transmission problem statement proposed by the BEMLS Ltd.

### **Problems Encountered and Resources Required**

- Time management between the workshop sessions was little bit challenging.
- Getting permission from the parents of girls students to retain them for workshop during night time.

## 2. Implementation of e-governance at the institutional level.

Title: Implementation of e-governance at the institutional level.

### Goal

The ultimate aim of e-governance is to design a complete package with a variety of modules to take care of the entire spectrum of activities that take place day-to-day. The e-governance allows users to store almost all the college information electronically, including information on students, employees, etc. This data is secure and is available to authorized users. Data can be easily searched and reports can be generated. Thus data is protected. Redundancy is decreased. Efficiency is increased and the administrators, Head of the departments and faculty members are utilizing this facility for effective decision making.

### The Context

The e-governance areas include system administration, admission, HR management, infrastructure management, library management, student management, academic management, attendance management, vehicle management, hostel management, gate entry management, feedback management, asset management, certificate management, reception management for senior officials, finance management, SMS/Mail portal etc.,

### The Practice

The e-governance enhances the academic management systems. Assign students to their respective classes, allocate papers and course faculty for them. Updating the timetables class wise and faculty wise. All internal and University assessments are entered in the software for easy analysis. Question banks, answers keys, teaching aids are maintained and that are shared with the students. It helps in easy planning and managing course completion. Faculty, HoD and Head of the institution can track the completion of syllabus. Customized and standardized report can be generated for decision making.

### Evidence of Success

- Based on the query provided, the database looks for and retrieves the data requested. Applications and software generally use various queries to retrieve data in different formats. So our e-governance software can easily retrieve the data.
- This e-governance software can effectively monitor and review all the academic activities of our institutions.
- This e-governance software can reduce the time in all aspects of academic activities



of our institution.

- Quick response in the academic, administrative data's can be achieved.
- Library management system helps to generate reports for book dues, periodic usage and integrated message to alert students about overdue books and when reserved books becomes available.
- Attendance management system can consolidate students attendance report of the individual course and also students performance;
- Academic performance of students are easily analysed by the subject handlers for further
- improvement which is generated in multiple languages and sent to the parents for information.
- Students can give their academic feedback for subject understanding which is reviewed by head of the department.
- General feedback related to canteen food, electricity needs, and water facility can be easily resolved through e-governance software.
- All academic information is communicated through e-governance. It reduces the usage of papers and save time. This is one of the best practices of our institution.

## **Problems Encountered and Resources Required**

Sometimes wireless connectivity is disrupted due to environmental problem.