

7.2: Best Practices

Best Practice : 1

Title of the Practice:

Skill Development

Objectives of the Practice:

The main objective of this program is to strengthen the technical knowledge of the students. This training ensures that students attain the scope of career in both their core and in IT industry. The session starts from the very first year of their curriculum and exists until their PLACEMENTS in the final year.

1. Includes Python, Java and C Tutorials and related programming lab practice problems.
2. In addition to the languages within curriculum, the newer batch gets to learn additional language – Python, which happens to be growing and on-demand in the market.
3. Timed programming tests, so as to serve as a mock test for the actual placement process.
4. Related analytics and Metrics for Training and Placement by department as well as associated faculties.
5. Students will get individual performance reports.

The context:

The Technical Association Activities of each department are integrated with the curriculum within the time table. The office bearers are nominated and the planned activities are conducted regularly all through the semester.

The Practice:

The Association activities start with first working Day and close with a Valedictory in every academic year.

The technical competencies of the students are identified in conducting various competitions and quizzes.

The guest faculty is invited for a talk or in conducting a workshop.

A Valedictory is conducted during the end of the academic year and distribution of certificates on that day programme.

Evidence of Success:

The technical competencies and diverse talents of the students are brought to the forefront and were encouraged to take part in national level competitions.

Some of the students explored their areas of interest to present papers in intercollegiate Technical Competitions.

- Knowledge in many programming languages from their basics
- The fundamental concepts of the language gets stronger
- Performance evaluation for each student at the end of the session
- Course completion Certificate will be provided after each course
- Students will be well-trained in core concepts and will be ready to face the interview by the time they reach their final year

Problems Encountered and Resources Required:

To conduct the activities on regular basis.

Identifying the resource persons and their availability.

SALIENT FEATURES

The salient feature of the skill development includes:

Online Learning that helps to practice codes at anytime

Training in many programming languages.

Test cases that match real time problems.

Training based on core concept.

Performance evaluation at the end of each session.

Course certificate.

Best Practice : 2**Title of the Practice:**

Maintenance of Student counseling Record

Objectives of the Practice:

- To establish a feeling of mutual understanding between the student and the teacher.
- To give individual attention to the student to cope with the academic and professional challenges in Engineering if any.
- To assist and guide the student in academic and career planning.

The context:

The students with their peer pressures, parental pressures and social pressures encounter academic challenges in not being regular to the classes, not able to cope with some of the subjects offered and may lose the focus to achieve the desired results and performance. The Student Counselor as mentor addresses such issues of each individual student and helps them to overcome the issues.

The Practice:

- One faculty is assigned to 30 students as their counsellor/mentor.
- The faculty meets the student individually and addresses any issue that becomes deterrent for the academic progress of the student and records them in the Student Counselling Record.
- The attendance and the mid examination and end examination marks of the student are recorded on their Counselling Record and if any student is found irregular or with low performance is noted, they are personally counselled and are provided the professional help needed.

Evidence of Success:

- The student counselling provided a forum for each student to address their issues if any.
- Many students felt comfortable to address their problems and to seek the help from their counsellor.
- Most of the students met the objective of establishing a feeling of mutual trust and understanding between them and their counsellor.

Problems Encountered and Resources Required:

- ❖ The availability of time convenient both for the student and the counsellor.
- ❖ Some students feel diffident to address their issues with the counsellor.

Best Practice : 3**Title of the Practice:****ASSESSMENT OF NUTRITIONAL STATUS AND BODY COMPOSITION****Objectives of the Practice:**

- To assess the nutritional status of the 1st year B.Tech students every year that is whether they are in under-weight, normal-weight, over weight or obese categories based on Body mass index (BMI) norms.
- To assess the body composition profile that is body fat percentage, lean body mass including visceral fat.
- To identify the Resting Metabolic Rate (RMR) of the students.

The context:

Proper physique and desirable composition manifests overall health, fitness and work performance. Due to modern life style patterns, including changed dietary habits and decreased physical activity levels, health and fitness levels of the students are getting affected and resulting in the rise of non-communicable diseases. Hence, this practice provides an opportunity for the students to know their nutritional status and body fat content.

Resting metabolic rate (RMR) information helps to identify the calorie needs of a person.

It helps to plan required intervention programs to achieve desirable body weight and body composition.

The Practice:

- The height of the students is measured with a height stand with an accuracy of 0.1 cm..
- The student details including age, gender and height in centimetres data are recorded and that data is entered in the Fat analyser (Omron Karoda Scanner. Then the student is made to stand on the platform of the scanner by holding the hand grip of the scanner.). This instrument works on the principle of bio electrical impedance.. In few minutes, the weight, Fat percentage, BMI, body age, Resting Metabolic Rate and Visceral fat will be assessed and reading will be recorded.
- The students have been guided and counseling on their diet habits, physical fitness based on this data.

Evidence of Success:

- This data proved to be very useful to identify the malnourished students (Both under weight, over weight and obese).
- In addition to this, students with abnormal fat percentages have been identified.
- Such students with abnormal BMI and fat percentage are counseled and intervention programmes are provided to achieve desirable nutritional status and body composition
- The RNR data is used as an important base to identify the caloric needs of the students in the formulation of dietary guidelines..

- Many staff members also check their status of BMI and fat percent and are guided appropriately.
- Many students have been suggested Physical activity guidelines to improve their overall health and fitness levels.

Problems Encountered and Resources Required:

- More technical support and latest infrastructure is required to evaluate students periodically and intervention program impact can be seen and modified based on the requirement.

Best Practice : 4

Title of the Practice:

TECHNICAL ASSOCIATIONS OF INDIVIDUAL DEPARTMENTS

Objectives of the Practice:

- To conduct and organize various technical activities and events to hone the technical skills
- To promote competitiveness and to improve the technical learning skills among the students
- To facilitate sharing of technical ideas among the students and to expand networking with the various organizations and the experts in the relevant field

The context:

The Technical Association Activities of each department are integrated with the curriculum within the time table. The office bearers are nominated and the planned activities are conducted regularly all through the semester.

The Practice:

- The Association activities start with Freshers Day and Close with a Valedictory named as Traditional Day every academic year.
- The technical competencies of the students are identified in conducting various competitions and quizzes.
- The guest faculty is invited for a talk or in conducting a workshop or a short course in the relevant field of study.
- A Valedictory is conducted during the end of the academic year and the prize winners in the activities conducted and the academic toppers are given the awards and certificates on that day followed by Lunch and cultural programme.

Evidence of Success:

- The technical competencies and diverse talents of the students are brought to the forefront and were encouraged to take part in national level competitions.
- Some of the students explored their areas of interest to present papers in intercollegiate Technical Competitions.
- The winners are given appreciation letters and cash incentives.

Problems Encountered and Resources Required:

- ❖ To conduct the activities on regular basis
- ❖ Identifying the resource persons and their availability

Best Practice : 5**Title of the Practice:**

GNITS Staff Club

Objectives of the Practice:

- To maintain employees' satisfaction with their work and their social life within the workspace GNITS Staff Club has been formed in the year....
- The main objective of the club is to bring together the staff members of the Institute celebrating few important occasions and festivals.
- To infuse enthusiasm and positive, vibrant goodwill among its workforce.

The context:

The stress and the pressure faced by the individual directly affects the work efficiency of the Institution he or she is employed with. As this pressure increases, so does the need for handling and overcoming it. In an attempt to mitigate the adverse impact from the lack of work-life balance, and to inculcate a sense of belongingness with greater work engagement GNITS Staff Club is initiated towards an effort to build a work culture that fosters camaraderie, creativity and cohesion in the team.

The Practice:

- Office bearers are nominated and elected for the staff club on turn-key basis for 2 years. The Principal would be the President of the staff club followed by electing the Vice-President, Secretary, Treasurer and one member from each of the departments both from teaching/non-teaching staff members.
- Various sports, cultural and recreational activities are conducted for the staff members on various occasions and the prizes are given on the Annual Staff Club Day with Lunch in synchronization with the Teachers' Day on 5th September every year.

Evidence of Success:

- Communication, which is the key to success of any individual and institute, is greatly improved through Staff Club activities.
- The club helps in reducing the perceived gap between the leadership team and the employees and gives a chance to see their leadership as colleagues and contemporaries.
- The activities give the entire staff, leadership and employees alike, a chance to understand each other's strengths and potentials.

Problems Encountered and Resources Required:

- The planned activities may clash with the academic schedules.
- There may be difference of opinion in taking certain decisions.