



Sai
SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
Accredited by NBA and NAAC 'A+' | An ISO 9001:2015 Certified and MHRD NIRF ranked institution
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BEST PRACTICES OF THE INSTITUTION

Best Practice - 1

1. Title of the Practice:

Students Performance Grade Point Average (PGPA)

2. Objectives of the Practice:

- To monitor and evaluate students academic excellence and skills, and to give a recognition based on their performance
- To achieve holistic development of the student and provide clear evidence to support the needful

3. Context

- Initially it was challenging in framing the PGPA policy to cover all the aspects, then with a lot of discussions with the Top Management finally it was successfully drafted and implemented.
- Educating the staff about the PGPA was also demanding.
- It was also challenging to change the students from the regular process. It also took some time for the students to adapt with the PGPA method.

4. The Practice:

To monitor and evaluate the students academic excellence and their skills the following guidelines have been evolved. The students are given a credit based on their performance and named as PGPA. The evaluation includes 10 components including academic GPA. Some components are mandatory in a specific semester and other components are optional. The 10 components are listed below

I. Skillrack

Skill rack will be evaluated with 3 credit equivalents in each semester. It starts from 1st semester and goes upto 7th semester. Every student shall undergo this mandatorily. The points earned by the student will be graded in a 5 point scale with 'O' grade as the highest value and 'B' grade as the lowest.

II. AMCAT

Every student shall undergo this test from their 3rd semester onwards till their 6th semester. The student will be awarded points on a 10 point scale. The AMCAT is an online test which evaluates job applicants on critical areas like communication skills, logical reasoning, quantitative ability and other job specific domain skills and helps recruiters to identify the suitability of a candidate for a particular job.

III. Internships

As per the Regulations R2020, every student admitted into the Sairam Institutions shall undergo Internships mandatorily. The internship shall be undertaken for a minimum period of 45 days. The student shall be awarded 3 credits for the above said internship. After a student completes his/her internship, he/she has to submit a report on the internship he/she undergone along with necessary proof of documents

IV. Sairam SDG Action Plan

The Sustainable Development Goals (SDGs) are a collection of 17 Global Goals that were adopted by all United Nations Member of States in 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. Students are encouraged to do the projects in align with the sustainable development goals.

v. Sairam Innovation Ecosystem (Ideathon, Solvethon, Innovathon, Inspireathon)

Ideathon - In the first year the team of students thus formed shall have to propose an idea in their area of interest.

Solvethon - The team of students thus formed shall have to propose the solution of their idea they proposed earlier. These solutions will be evaluated by a panel of internal/external experts.

Innovathon - The team of students thus formed shall have to propose the solution in an innovative manner and will be evaluated by a panel of internal/external experts.

Inspireathon - The team of students thus formed shall have to implement the solution and will be evaluated by a panel of internal/external experts.

VI. Sairam Artificial Intelligence Learning

SAIL - The exclusive AI powered platform of Sairam Institutions, to evaluate the students' Higher Order Thinking (HOT) Level, using three types of assessment methodologies, namely Subjective Assessment, Objective Assessment and Coding Assessments. These components will be evaluated with 3 credit equivalents in each semester. It starts from 1st semester and goes up to 7th semester.

VII. Clubs & Cells (Co-curricular)

Students shall enroll a minimum of 3 clubs/cells .During each semester, the student shall take part in the activities organized by the clubs/cells and they can earn their points towards PGPA contribution.

VIII. Sports, Games & Culturals (Extra-curricular)

Every student can involve himself/herself in Physical education and participate in sports and games under various categories and levels. It is an optional parameter to earn PGPA points.

IX. Online Certification (IITB Spoken Tutorial, Future Skills)

In each semester students shall be allowed to do online certification of their choice to enhance their skills. The courses may be registered in IITB spoken tutorials, future skill courses, etc., These courses shall be taken up by the students during their free hours.

X. Academic GPA

In each semester the GPA obtained by the student of his/her current semester will be added to the above component with a weightage of 40% and the final PGPA will be awarded to the student.

5. Evidence of Success:

- The students are industry ready with good experience in various domains
- Fees waiver for PEGA,PLM (Product Life Cycle Management), Leo Muthu Scholarship, EBAJA, SIH and Tuition fees.

6. Problems Encountered and Resources Required:

- Lack of proper awareness about the vast possibilities of opportunities globally.
- Skillrack, SAIL, and the AMCAT platforms are necessary for student training.
- Licensed online certification courses are required for training the students
- There needs to be proper awareness and guidance provided for the internship.
- Awareness is needed to be given for participating in the various club activities.
- Students need to be encouraged to participate in extracurricular activities.
- Trying to develop the habit of exploring other areas and technologies and focus on attending training programs.

Best Practice - 2

1. Title of the Practice:

Sairam Artificial Intelligence Powered Learning (SAIL APP)

2. Objectives of the Practice:

- To encourage students centric learning and monitor their understanding level and thereby improve logical thinking and reasoning skills.
- To provide a forum for students to upgrade their knowledge in the core courses and to test their understanding and to rejuvenate the knowledge in the courses taught.
- To identify the areas of difficulty and to help students to improve their knowledge.

3. The Context:

- Educating the staff and students about the SAIL APP usage was initially challenging.
- It also took some time for the students to adapt themselves to regularly use the App.

4. The Practice:

SAIL is a mandatory tool for assessing the student's academic performance as per Bloom's Taxonomy. This is applicable for the students who are admitted from the AY 2020-2021 onwards. All the Heads of the departments can monitor the usage and utilization of the SAIL platform. A monthly report on utilization metrics pertaining to their department has to be submitted to the Dean (Academics). This monthly report can be downloaded from respective applications directly.

For every theory course, it is mandatory to conduct 2 tests per unit. 20 to 25 minutes shall be allotted for the post assessment interaction for each test conducted. Hence, it is proposed to allot one extra period per unit. Atleast, one live assessment session per unit to be conducted mandatorily at the cost of one more extra period per unit. So, totally two extra periods will be taken into consideration per unit.

SIL application provides intelligent analysis of post assessments. Staff can easily identify the strengths and weaknesses of the students. Staff is thus expected to utilize the opportunity in the SAIL application and do the needful to support the weak students or slow learners.

The leader boards may be shared in an open forum within the department /college and performers will be rewarded. The staffs, who use the SAIL platform effectively, shall be appreciated/rewarded. The SAIL App training is very much insisted to be placed in the orientation programs for the newly appointed/inducted Teachers of Sairam Institutions.

5. Evidence of Success:

Owing to the hard work done by the students and faculty members, the following achievements have taken place

- Improvisation in CAT examination and thorough understanding of subject knowledge leads to the ultimate aim in performing End Semester Examinations
- The SAIL performance report made it simple for the teachers to identify the concepts which were exceptionally hard for the students and to identify the slow learners.
- The students have gained strong technical expertise in a variety of fields, making them suitable for the job market.

6. Problems Encountered and Resources Required:

- Educating the faculty and students about the SAIL APP is required.
- Students need to be motivated and to develop the habit of using the SAIL App regularly.
- The teachers and students required some time to adapt to use the app consistently.
- Licensed SAIL App is required