

## Institutional Best Practices - I

### 1. Title of the Practice

Campusrunn – Placement Tracking System

### 2. Goal

In the digitalized world of information and for the effective paperless data handling, a web application becomes handy for the Institution. Campusrunn is a total management and information system, which helps

- To provide the up-to date information of all the students in the College.
- To overcome the difficulty in keeping records of hundreds and thousands of students and searching for a student eligible for recruitment criteria from the whole thing.
- To utilize the hardware and the software resources effectively and timely.

### 3. The Context

Placement is the word that links between academic institutions and corporate world and plays a vital role in showcasing an institutions pride and reputation. In this regard, students are the main stake holders of this process. Each institution maintains the students' record in the database. These databases have all the information of each and every student. Before recruitment process, database of eligible students is culled out based on the eligibility criteria of corporates concerned. In the post recruitment process, the databases of placed students are secularly maintained as a repository for future reference and utility. In addition, colleges analyze the pros and cons of particular drive so that in future they want to improve the training strategy. The core objective of Campusrunn software is that it provides all the facilities to access students' information, company eligible criteria details, sending relevant information to coordinators and students regarding campus drive and complete maintenance detailed information of placed students. Campusrunn offers efficient and effective way of storing and retrieving students' information at any time and also get a detailed analysis report of all the campus recruitment.

### 4. The Practice

Campusrunn consists of three different sections namely, Admin, Coordinators and Students. In the Admin Section, the students' information of the institutions are controlled,

managed and updated in a customized manner. The Admin is the Single Point of Contact (SPoC) between the academia and the corporate. The Admin directly contacts with all the corporate governance. Once corporate HR confirms the date of recruitment, interview rounds and eligibility criteria of the recruitment process, the Admin generates the eligible students' database and mails to all department placement coordinators, Head of the Departments and students as well. In addition, the admin sends company profile, rounds of interview and topics to be prepared through the job post. During recruitment process, he will update the attendance, rounds wise details in the software and also view the placed students at the end for round-wise updating. Finally, He will download the list of students placed.

In Coordinators Section, respective coordinators will receive the detailed mail from the Admin via job post and they can view the eligible students list, company profile and interview rounds. Coordinators can update their students SEM CGPA regularly. In Students' Section, the eligible candidates can have their individual logins. They can check and update their own information in the initial phase after that they cannot edit their information except résumé and photos. They can view the company details via job post. They can view their own round-wise status in the recruitment processes. In addition, training details such as aptitude, verbal and technical marks are uploaded, and performance analysis can be taken for their future improvement.

## **5. Evidence of Success**

Campusrunn is an indigenously developed web application by our faculty, and duly copyrighted by Government of India. It eases the placement process with paperless management of information. The skill sets of students can be tracked instantaneous. Company wise round details can be easily tracked for prospective grooming of students. Round-wise details of the individual candidates can be viewed by the students concerned/coordinators/Heads.

<https://ct.ksrei.org> – Username: admin

password:bamboo@2020

## 6. Problems Encountered and Resources Required

Campusrunn can track only the single job roles of the company concerned and tracking multi-job roles in single company is difficult. The resource required is the company with various job roles can incorporated into the application for easy tracking of job roles.

### Institutional Best Practices - II

#### 1. Title of the Practice: Programming Skill Development System (PSDS)

#### 2. Goal

1. To inculcate the logical thinking and improve the programming skills.
2. To identify the logic used by the students based on Test Cases.
3. To facilitate students to execute the codes in any programming languages such as C, C++, Java, Python, PHP, SQL, HTML, JavaScript, JQuery after the logical thinking process.
4. To permit the students to edit, view, retrieve and debug their codes at any time.
5. To equip students to be self-reliant in programming and code testing process.
6. To upload the learning materials relevant to the topic to be accessed and post questions as per the schedule for subjects: Fundamentals of programming, Data Structures, Object Oriented Programming, Java, Python and DBMS.
7. The students' progress can be monitored for better coding efficiency in terms of
  - a. Test cases passed
  - b. Logic used
  - c. Time taken
  - d. Compilation count
  - e. Space used.
8. To administer online examinations and give online suggestions & clues to solve the problems.
9. To facilitate system evaluation and verification by faculty for programming efficiency and effectiveness.

10. To generate customized reports: student-wise, mark-wise, batch-wise and program-wise.

### **3. The Context**

In the prevailing scenario of the demands of companies on new and emerging coding skills at a fast pace, it is imperative to consistently inculcate the students particularly aspiring for product and service based companies.

With a view to equip and enrich the students to acquire the professional competency, PSDS facilitates the students to code and compile programs diligently.

### **4. The Practice**

The programming skills imparted in the academia have created a gap for the students to fit well and adapt to the corporate needs. This gap is reduced by the hands on training and practice on a coding platform like PSDS. Programming Skill Development System (PSDS) is a web IDE that gives more efficient and effective programming skills and improvising the logical thinking ability for students. Programming skills of the students are tested and evaluated on PSDS as a part of curriculum right from first year. Also students who are contesting in coding contests like Smart Hackathon find PSDS more reliable and learner friendly in developing their projects.

In PSDS, the students can script codes and statements in any programming languages like C, C++, Java, Python, PHP, Perl, SQL, HTML, JavaScript, JQuery and so forth for solving a particular problem. This method of flexibility and self thought seasons the coding efficiency of the students.

Both laboratory and theory courses of programming skills are conducted in PSDS platform.

### **5. Evidence of Success**

This platform provides the learners and coders with

- Coding Ability
- Code Standards
- Problem Solving Skills
- Logical Thinking

- Full stack developing

PSDS is an indigenously developed by our faculty on par with the test engines like Hackerrank, Hackerearth, Mettla and Codechef. PSDS have facilitated students to perform well in the recruitments of many product based companies like ZOHO, IVTL, VURAM Technologies, etc. Also, students aspiring to reputed companies like Wipro, CTS, TCS, Capgemini etc. PSDS is also used for CoE models like Aspire Systems and Virtusa.

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## 6. **Problems encountered and resources required**

Students can practice on PSDS platform in any computer lab within the campus through intranet. Also, they can script codes in PSDS in internet using their own laptops and mobile phones. This helps the students to practice their coding skills even beyond college hours.

## **Institutional Best Practices - III**

### 1. **Title of the Practice:** Digital Assisted Language Learning System (DALLS)

### 2. **Goal**

- To help learners improve their vocabulary and to enable them to use words appropriately in different academic and professional contexts.
- To help learners develop strategies that could be adopted while reading texts.
- To help learners acquire the ability to speak effectively in English in real life and career related situations.
- To equip students with effective listening, speaking, reading and writing skills in English.

### 3. **The Context**

Language acquisition is a skill and as a child tends to master his mother tongue not initially by learning the grammar both syntactically and semantically in writing and reading alone. But rather, it is put in a milieu where it practices to speak our mother tongue by mere mimicking initially and later it acquires the reading and writing skills.

But Second Language (L2) acquisition in our educational system directs the young learners to learn English and never allows them to practice in the real world scenario and

negates the natural and self-learning process. This problem is applicable to the engineering students studying English as their first year course as well.

From the company and academic excellence perspective, students secure good marks in the examinations but in the functional aspect of their language competency, the students could not meet the level of communication in expressing their ideas effectively.

DALLS is also rolled out in such way to kindle the self-learning habit of the students and augment the skill practice of language learning in the form of Communication Skills – LSRW.

#### **4. The Practice**

DALLS is developed to rectify the above-stated problem. DALLS comprises of Capsules each with 6 activities based learning tasks namely, Video Comprehension, Listening Comprehension, Reading Comprehension, Word Power Task, Writing Task and Oral Presentations. DALLS is a system of self-learning in a controlled laboratory activity and the capsule activities are rolled out to the students in the form online quizzes and activities. DALLS works on the KSRCT MOODLE Platform. The students are enrolled into the MOODLE with individual logins. Thus, DALLS incorporates the Activity Based Learning (ABL) into the learning system.

The Video Comprehension task facilitates the learner to watch a brief video for 3-5 minutes and then answer the quizzes that follows. Similarly, in the Listening task, the learners can listen to the audio content briefly and can answer the quizzes that follow. The Reading Comprehension task allows the learner to navigate to the comprehension passage pages with MCQs. The quizzes in the above tasks are inclusive of MCQs, MSQs, short answers, fill-ups and Vocabulary Check.

As far the Word Power task is concerned, the learner can answer the MCQs on verbal ability. In the Writing Task, learners are required to text in essays, paragraphs, Emails, Data Interpretation and story narration contents as specified by the course coordinators.

The learners are motivated to perform oral presentations such as prepared talk, impromptu speech, Extempore, Just a Minute, Story Narration, Loud Reading, Group Discussion and Self-Introduction.

The performance in the task driven capsules are taken for the internal mark calculations and the learners have to appear for the End Semester Examination as a theory subject. The mode of conduct of this exam is on Laboratory course

## **5. Evidence of Success**

A discernible improvement is observed among the learners who are using this ABL method. This system of learning is not pivoted to the short-term learning but DALLS certainly supplements the learning habits of students and reinforces the practices of learners in honing their communication Skills in the long run. DALLS has boosted the confidence and participatory skill of the students and a considerable level of improvement in the oral presentations. This system of learning is in good practice when compared to the earlier theory course.

With the help of DALLS, the number of students has increased in:

- Technical Paper Presentation in conferences,
- Oratorical Contests such as Youth talk and Teen Talk,
- Content writer in company projects
- Group discussion and HR in the placement process.

## **6. Problems encountered and resources required**

DALLS on MOODLE platform manages better the users in group and the performance analysis can be made individually. The questions cannot be posted individually but only for the entire class. As the practice is carried in a LAN enabled laboratory environment, the rolling out of capsules in World Wide Web is also enabled for the learners beyond class hours to enrich their language through effective practice.

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