

## Title of the Practice

### Summer Vacation Software Project for BBA CA

#### **Goal: -**

1. Make the students understand the actual software development steps as the students are learning various computer languages and technologies
2. Teaching the students to apply computer programming knowledge with respect to real projects
3. Show the students how to deploy a software project
4. Teach the students to apply the computer technologies in various situations by learning to do requirement analysis and interaction with the real clients

#### **The Context: -**

- The students are given idea for the software to be developed which is practical and within the scope of the summer vacation which is between mid-April to mid-June
- Students design and develop the software with the constant guidance from the mentor(s) for the project
- Students are exposed to the industry experts for morale boosting, learning nuances about various technologies
- When possible, client-site visits are arranged to get the chance to interact with the clients directly

#### **The Practice: -**

The following list shows the successful summer vacation projects done so far –

Sr. No.	Project
1	Quick Heal Technology's self-learning website's content development
2	Data entry software for the NGO Bharatiya Samaj Seva Kendra
3	Event Management software for college events where reports useful for NAAC can be obtained

#### **The students learn**

- The process of software development for a real project.
- To identify the requirements gathering and analysis for a software project.
- How to interact with the real client. Improvement in the communication skills which are absolutely required to bag a job.
- Different technologies outside the syllabus through experts coming in to share their experiences and knowledge. Agile Methodology was taught through a small workshop during one such summer vacation project.
- To deploy the software or at least get to learn the implementation. Students can learn more if resource like a domain is made available.
- How to create the required project documentation including writing a user manual for the software they have made.

### **Evidence of success: -**

Students are interested and curious about the actual manufacturing process and are extremely surprised to see that a serious subject like Statistics has real life applications. It also helps them and leads them to look up to applications of Statistics to grab good career opportunities. Taking Statistics to learning grounds has helped them permanently remember certain concepts for life.

### **Resources required: -**

- A computer lab or access to computers
- Willing students
- A willing faculty to monitor and guide them through the project
- Domain(s) and / or access to a server to deploy the projects

### **Problems encountered: -**

- Students are less aware of the applications of computer languages in a real setup. Everything learnt so far is just from the theoretical perspective.
- Official certificates or some sort of acknowledgement should be provided by the college for the efforts being taken by the students to learn something extra outside their syllabus.
- College can arrange for the funds to acquire certain resources such as domains so that these summer vacation projects can be put to good use by not just the college but all institutes of the DES Society.

**Note (if any): Continuous guidance to the students during the period is essential and more in-house opportunities need to be provided by the college to get the small software designed and developed by the students which can save plenty of money and at the same time it can become pride of the college to use these software packages designed and developed by their own students. This practice can actually become an official training exercise to make the BCA students job-ready. This practice is also promoting “thinking out of the box” attitude which is very conducive to budding entrepreneurs. The practice needs to be more structured where more and more students can get involved rather than selective few. The certificate acquired by these students after participating in this practice will carry lot of weight in the industry they will be venturing into after graduation and will certainly give the students the much needed impetus and some experience for their job.**