Report on the Activities Involved and Observations made during the Induction Programme

Bachelor of Technology

in

Computer Science and Engineering

by

NAME

SACHIN KUMAR N

Register Number

22BCE2228

Introduction to Engineering – BCSE101N
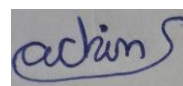
School of Computer Science and Engineering,

VIT, Vellore.

September, 2022

Declaration

I, SACHIN KUMAR N (Reg. No 22BCE2228) hereby declare that the report submitted by me, as a partial fulfilment of the course on 'Introduction to Engineering (BCSE101N)' registered during Fall Semester 2022 – 2023, is a record of the activities involved and the observations made by me during the Induction Programme during September 2022 – October 2022.

To the best of my knowledge, this document has been prepared by me keeping in mind the professional ethics and has not been copied either in part or in full.

Date: 7/12/22

Signature of the Student

Place: Vellore

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1. Learnings during the University Level Induction Programme

- The main aim of the induction program was to make the students aware and friendly with the campus.
- The program started with the state anthem of Tamil Nadu.
- There were speeches by the Vice-chancellor Dr. Rambabu Kodali, vice president Mr. G.V. Selvam and all the respected board members.
- We were also told about the Career Development Center (CDC) which would provide us with various opportunities during our academic years
- We were also told about the academic session.

Figure 1: Career Development Centre

- We were also told about the Fully Flexible Credit System (FFCS)- in which we can choose our own timetable for a semester and course.

- They were also told about the programmes offered by the SCOPE school of VIT.

- We were also told about the program curriculum components and the requirement and considerations for the placements and opportunities VIT university provides to us.
  We were also told about the semester abroad program and how can we apply for it and be a part of it and gain some experience.
  We were also told about the grading requirements for sitting in placement.
- The proctor is just like an on-campus parent to whom you can approach if you have any sort of problem.
- It is advisable to meet your proctor at least once a month.
- The proctor also keeps a check on your academics and the student can easily approach the proctor in case of any academic or non-academic help.

- The name, room no. and concerned building and contact no. is provided in STUDENT LOGIN under the section MY PROCTOR
- One has to get the leave request approved by the proctor when they are leaving the campus for vacations or on a holiday.
- We were also told about the English Proficiency Test (EPT).
- On very next day we had EPT on 10th September 2022.
- EPT is for assigning the students some part of English on the basis of their scores in the EPT.
- If the students pass EPT then they would not get English in their first semester otherwise they would be getting it in their first semester.
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2.Learnings during the School Level Induction Programme

- In this programme we were being told about our CSE core course structure.
- Here we were told in which semester which subjects will be taught.
- We were also told about the foundation core courses which is mandatory for every branches.

- We were also told about the discipline elective and discipline core courses.
- We were also told about the advantage of CSE core over CSE specialization.
- We were also told that how to build and industry connect with this programme which was very helpful.

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- We were also told about the foundation cores and non-graded
- In this we were told about all the courses.
- In the school induction we were told about the subjects and the
- Courses which we will be studying in each semester.
- Here we were also told about how to manage our studies.
- We were also told about the library.
- We were told about the books and the facilities available in VIT Periyar Central Library.

- We were also told about the e-library portal of VIT.
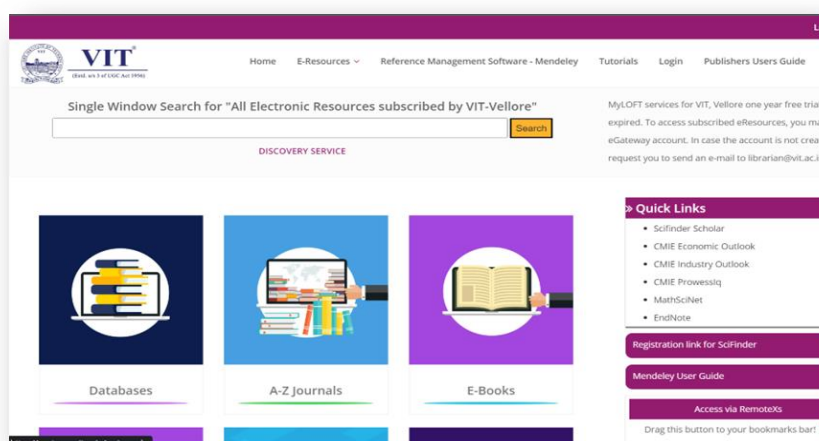

Figure 2: Library Online Book Recommendation

Figure 3: e-Library

3.Learnings from the Institutional Website

- We were told about the importance of the VTOP and how it works and how all our work in VIT would be done through the VTOP only.

- How it works and all the options available inside the VTOP were shown on the screen which was really very helpful.

- Also, we were told about all the VIT apps which help us mostly in every case made by the students.

- VTOP is the official portal of the institution and can be accessed from both the laptop and phone.

- VTOP can be accessed from sitting anywhere and just requires an internet connection which each and every person has today.

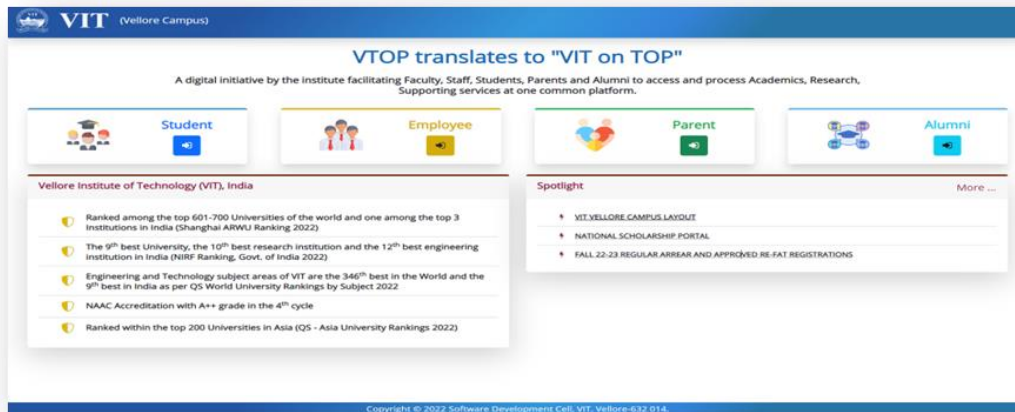- In this the student, parents, employee and alumni all can log in and can monitor the activities
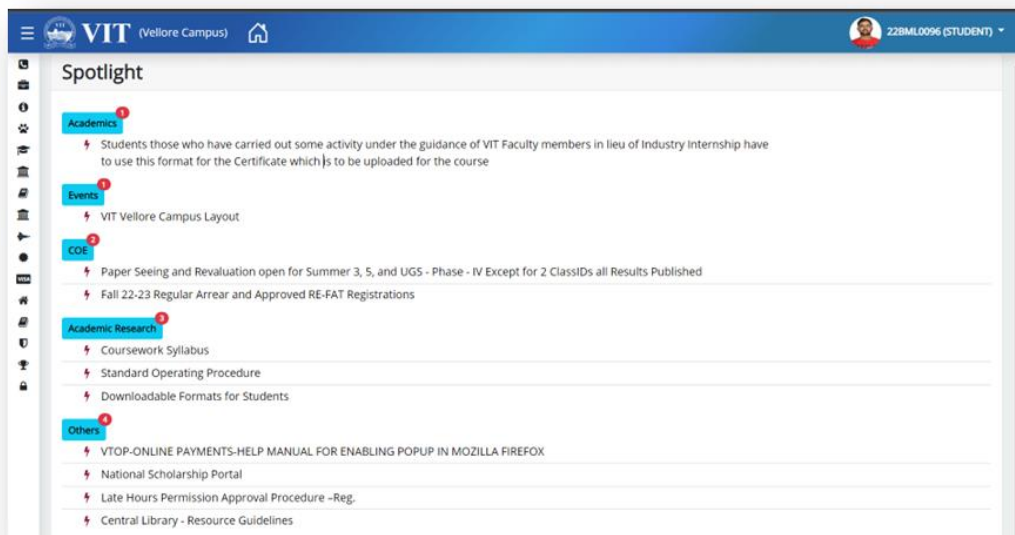

Figure 4: VTOP Home Page

Figure 5: VTOP

4.Learnings from 'Do-it-Yourself' Activities'

- We were given a prompt, few pictures, and a Spotify audio, and we have to write some story or a passage using these clues.

- It was an interesting activity which we had and the seniors helped us to overcome are struggles.
- We had public speaking as our second activity, in which we were allowed to speak in front of the whole class about any topic in your life which affected you the most in good way and in bad way.
- They even gave us the tips on how to improve our public speaking skills and procedures that are normally followed before, and during the public speaking.

5.Initial Learnings and Opportunities for Self-Development

Clubs and chapters are one of the facilities given by VIT for Self- Development. They were told about all the clubs and chapters that are available in VIT and they gave a quick gist on each of them. They were also told that these clubs and chapters will improve your skills and indirectly will help you during placements.

Figure 6: Technical clubs at VIT

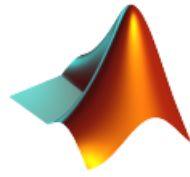# 6. Learnings from MATLAB – Simulink / Programming

Figure 7: MATLAB logo

In MATLAB we learnt the fundamental computer programming concepts such as variables, functions, exponentiation, to solve expressions using parenthesis and matrices. Various functions that work on arithmetical operations on matrices were also performed, showing how fast the software is. In Simulink software we learnt how various calculus equations can be solved using different tools in the software and how we can also derive they graph.
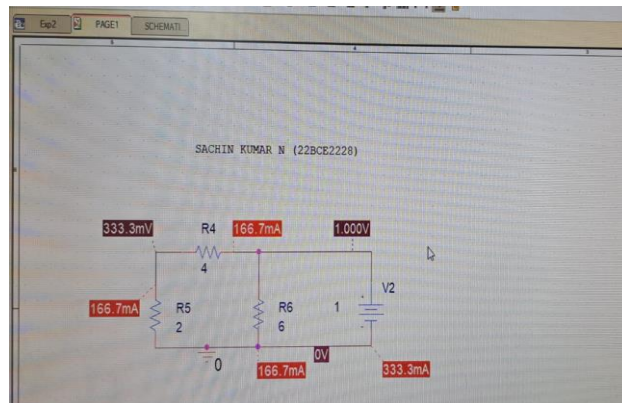
7. Learnings for OrCAD Software

Figure 8: Resistors and voltage circuit using OrCAD

OrCAD EE PSpice is a SPICE circuit simulator application for simulation and verification of analog and mixed-signal circuits. We learnt how to design a circuit in the simulator and how to solve the circuit and get the graph for any imposed conditions.

8. Learnings from Python / Programming and Problem Solving

Figure 9: Python logo

Since Python has simple syntax, faster readability capacity, significant companies are in demand in python language. Python have many inbuilt functions and simple code structure and it is one of the most efficient languages. During our course we have learnt how to code in python.

9.Any other General Observations

A few captured moment…

Figure 10: VIT Main Gate

Figure 11: SJT