LOYOLA ACADEMY

OLD ALWAL, SECUNDERABAD - 500 010, TELANGANA, INDIA

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DEPARTMENT OF B.Sc. COMPUTER SCIENCE & COGNITIVE SYSTEMS

INDUSTRIAL VISIT–REPORT

A complete report on Industrial visit organized by Loyola Academy for the students of B.Sc. Computer Science & Cognitive Systems[3rdyears] in order to get the practical knowledge about "**Advancements in Aeronautics using computer science"** carried out by Expleo Solutions Ltd.



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DETAILS OF JOURNEY

We, the department of B.Sc. Computer Science & Cognitive Systems had organized an Industrial visit to Bangalore from 3rd October to 7th October 2023.

Hyderabad to Bangalore:

We boarded the train at 9:05pm from Kacheguda Station and reached Yelahanka Jn, Bangalore at 10:00 am.

The trip was organized by Mrs. A Varalaxmi, HOD, B.Sc. Computer Science & Cognitive Systems
And she was accompanied by one of our department's faculty Ms. Nandini.

The total number of students along with 2 faculty members=33.

The trip coordinators were ready with the bus transport and took us to the hotel.

Bangalore to Hyderabad:

After exploring the commercial street , we headed back to our hotel and had our dinner before checking out.

We reached the station at around 10 pm and boarded the train at 2.00 am at Yesvanthpur Jn . as the train was delayed by 4 hours.

We reached Kacheguda Station around 11.30 am the next day i.e on 7th October,2023.

COMPANY PROFILE

Expleo Solutions Limited is part of the Expleo Group, a global engineering, technology and consultingserviceproviderthatpartnerswithleadingorganizationstoguidethemthroughtheir business transformation, helping them achieve operational excellence and future-proof their businesses.

Expleo Solutions Limited, with a successful track record of operating for more than 25 years in India, Asia Pacific, the United States of America, the United Kingdom, Europe and the Middle East,powersover150Banking&FinancialServicesandInsuranceclientsacrosstechnologyand digital transformation programs.

Expleo Solutions Limited also supports clients across other sectors in their digital initiatives. Expleo'sdeeprangeofservicesincludesinnovationmanagement&solutions,transformation consultancy, digital transformation, product & process engineering, quality & testing and customer support and maintenance. Expleo's clients benefit from its best-shoring delivery centers that offer a mutually favorable partnership model for establishing and scaling digital initiatives.

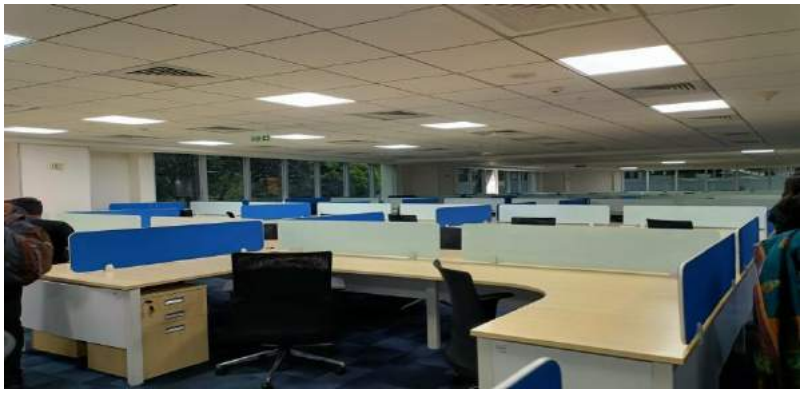
Working of Expleo at various Locations:

Bangalore: Aerospace engineering

Chennai: Digital Banking

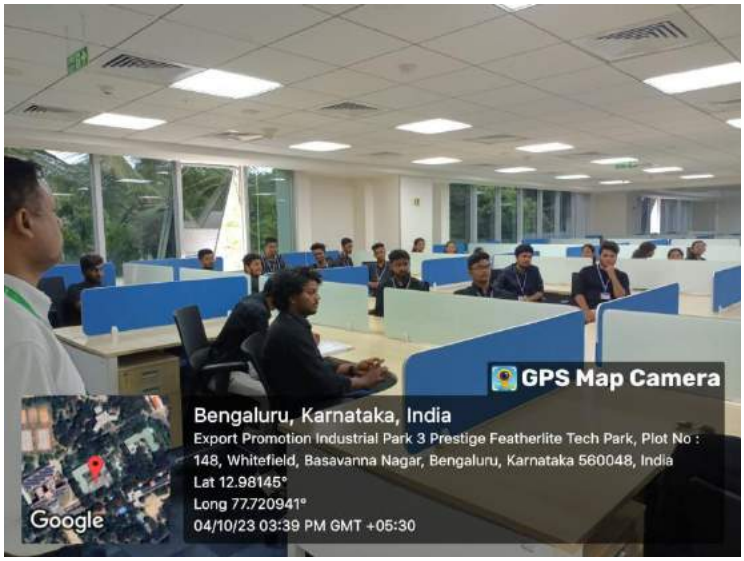
Pune:Cyber Security branch

Coimbatore: Training Office



GROUP OBSERVATIONS

The manager introduced himself and gave an insight into the infrastructure used by the company.



The block was totally divided into three floors:

1st floor-for the new employees

2ndfloor-for 3 specializations (Avonix, aerostructures and automotives)

3rd floor- it is a highly restricted area for outsiders

They also have two Cafeterias for the employees.

The branch which we visited was an Engineering base divided into

- Avonix
- Aerostructures
- Automotives



1. Aerostructures:

Works for Harness 3D.

Teams:

-ESIT
-Stress
-Step up

The training period is about 3 months.

2. Avonix: It works with test cases and aircraft systems like warning system, flight control system and software development.

The software is developed according to customer requirements, verifications and validation is done after the development.

PROCEDURE:

Generate Scripts

⇩

Testing the scripts

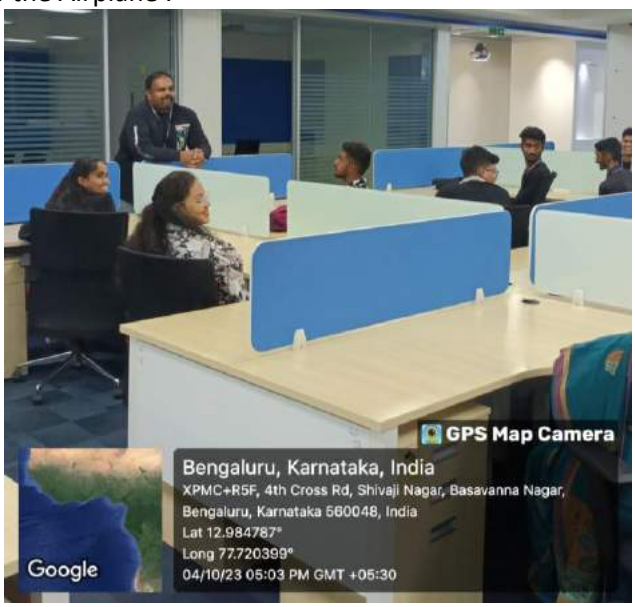
⇩

Match the Requirements

⇩

Code Generation

Test Bench Manufacturing: It is used to test some required applications, ATCT, aircraft antenna and communication interface of the Airplane .



3. Automotives:

The developers take the raw data and requirements from the clients for developing the AirBus code using GPC test simulator software.

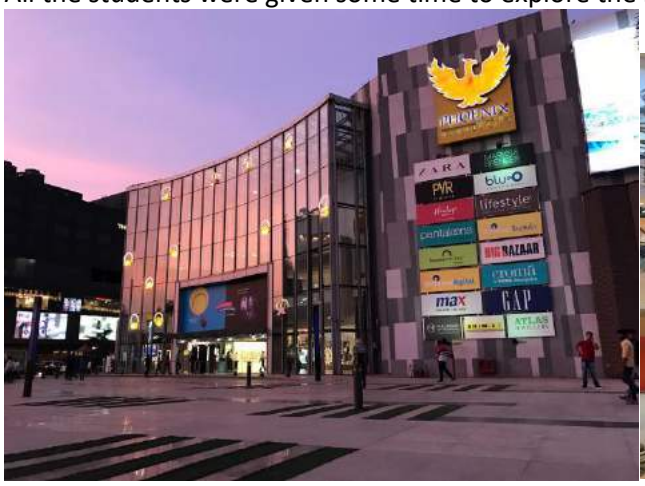
It includes 4 levels of testing :
>>Following V-Model
>>Segregating the code into four modules A,B,C,D
>> Getting codes
>> Testing codes on GPC

- These codes are used to simulate Boeing Flights.
- The scripts included are based on Excel Files.



PHOENIX CITY MALL

After a brief interaction with the company, we visited the Phoenix City Mall, Whitefield , Bengaluru.
All the students were given some time to explore the mall and do some shopping.





DAY 2 - MYSORE

We started our day early in the morning at 7 am. The first sightseeing place for the day was Sivasamudram Waterfalls. The estimated time to reach the place was 3 hours. We stopped by a restaurant named "**SaviRuchi"** on the way to have breakfast , which was a combo.

After having the breakfast, we reached the waterfalls at 10.20 am.





LALITHA MAHAL

After mesmerizing the beauty of Sivasamudram waterfalls , our next destination was Lalitha Mahal.

Lalitha Mahal Palace Hotel, is a luxury hotel-turned royal resident and the second largest palace in the southern Indian city of Mysore, Karnataka, after the Mysore Palace. It is located near the Chamundi Hills, east of the city. The palace was built in 1921 by Maharaja Krishnaraja Wodeyar IV for the exclusive stay of the Governor-General of India.

A few scenes of one of the famous Indian movies ***"KGF"*** were shot at this historical palace.







Next, we had our lunch at hotel **“Udupi Palace”** . There all of us were served with Veg Buffet.





MYSORE PALACE

After having our lunch at the hotel, we headed straight to the Mysore Palace as it is one of the main attractions of the Mysore City.

Mysore Palace, also known as **Amba Vilas Palace**, is a historical palace and a royal residence. It used to be the official residence of the Wadiyar dynasty and the seat of the Kingdom of Mysore.

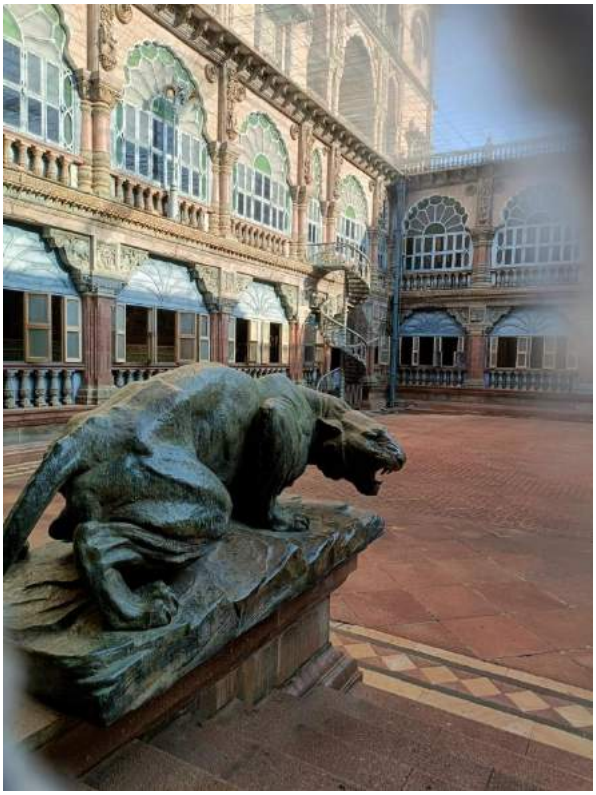
The palace is in the centre of Mysore, and faces the Chamundi Hills eastward. Mysore is commonly described as the 'City of the Palaces', and there are seven palaces including this one.

The last palace, now known as the Old Palace or the Wooden Palace, burned to ashes during the wedding of Jayalakshammani, the eldest daughter of Chamaraja Wodeyar in 1896.

THE MYSORE PALACE







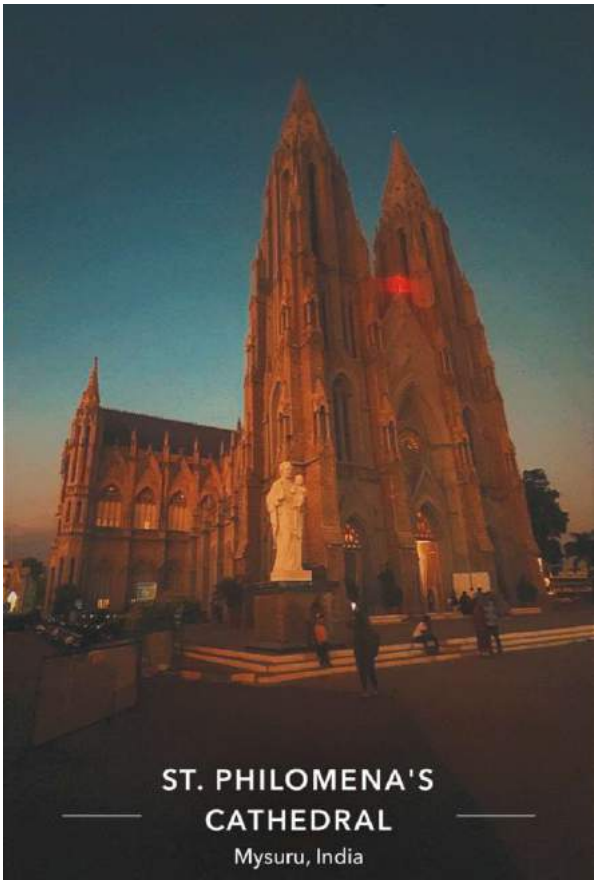


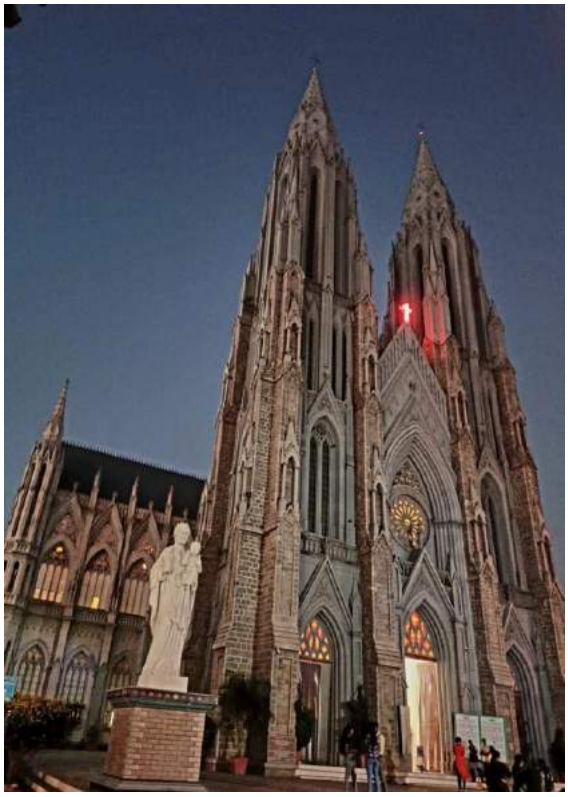
ST.PHELOMINA’S CHURCH

We then visited the St.Phelomina’s Church, which is only a few blocks away from

The Mysore Palace.

St. Philomena’s Cathedral is a Catholic church that is the cathedral of the Diocese of Mysore, India. The full name is the Cathedral of St. Joseph and St. Philomena. It is also known as St. Joseph's Cathedral. It was constructed in 1936 using a Neo Gothic style and its architecture was inspired by the Cologne Cathedral in Germany. This is one of the tallest churches in Asia.





With this , our 2nd day came to an end.

DAY 3 – EXPLORING BANGALORE

ISKCON TEMPLE

We started our last day in the city by having breakfast at the hotel. The first place we visited was the ISKCON TEMPLE.

ISKCON stands for **International Society for Krishna Consciousness.**





VISVESVARAYA INDUSTRIAL AND TECHNOLOGICAL MUSEUM (VITM)

We then visited the Visvesvaraya Industrial and Technological Museum (VITM) .

The Visvesvaraya Industrial and Technological Museum (VITM), Bangalore, India, a constituent unit of the National Council of Science Museums (NCSM), Ministry of

Culture, Government of India, was established in memory of Sir M. Visvesvaraya. The 4,000 m2 (43,000 sq ft) building was constructed in Cubbon Park, and was inaugurated by the first Prime Minister of India, Pandit Jawaharlal Nehru, on July 14, 1962.

The museum displays industrial products, scientific models and engines.

Engine Hall exhibits engines of various cars, machines used in industry, a jet aircraft engine, and other mechanical devices.





UB CITY

We then visited the UB City Mall , which had a walkable distance from the museum.

It is one of the luxurious malls in the city.

UB City is a business district in Bengaluru, India. It consists of 6 blocks with a total built up area of over 16 lakh sq ft.

Pioneered by the UB Group in Joint Venture with Prestige Group, it is built on 13 acres (53,000 m2) of land and hosts 1,000,000 sq ft (93,000 m2) of high-end commercial, retail and service apartment space.







COMMERCIAL STREET

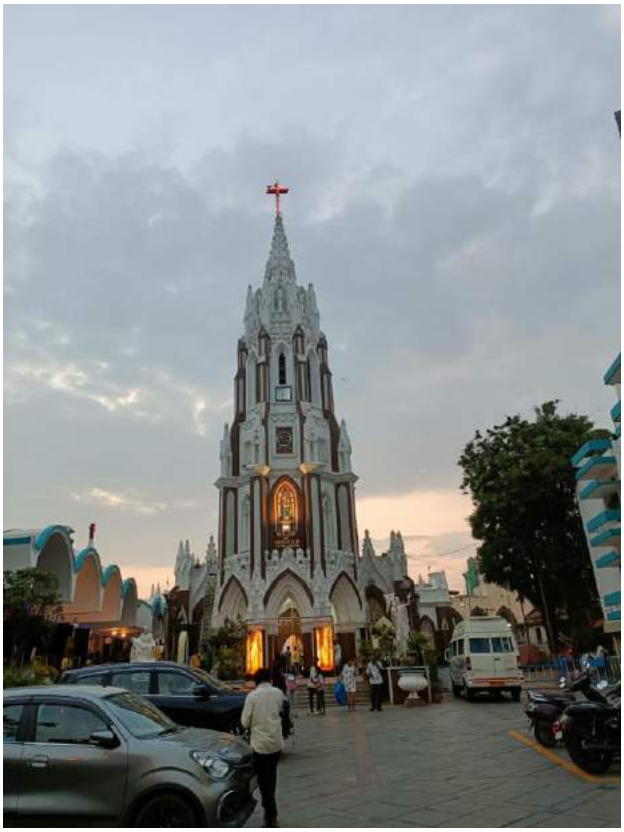
After having our lunch at Hotel Empire, we explored the famous Commercial Street in the city.

One of the oldest and busiest shopping areas of the city, the street is famous for its trade in clothes, footwear, jewellery, electronics; and food joints.With only 75 parking slots available on the street for four-wheelers, the street is one of the most crowded in the city.

It's expands between OPH road and K Kamraj road. the shopping locations extend to its bylanes including Dispensary Road and Abrahim Sahab street.

Commercial Street lies in the heart of the city in the Central Business District area in Tasker Town, close to M G Road.

ST.MARY'S BASILICA





St. Mary's Basilica is located in the Archdiocese of Bangalore in the Indian state of Karnataka. It is among the oldest churches in Bangalore and the first church in the state that has been elevated to the status of a minor basilica.

CONCLUSION

We thank our faculty for organizing such an informative visit which is crucial for the development in our practical skills regarding software testing, application development and customer relationship management in the field of aeronautics using computer science.

We got the knowledge on different types of models, software, frameworks and machines in Expleo solutions and had an opportunity to research on it.

We hope to get more such chances to visit various other industries across different parts of our country so that we can have an informative and wonderful experiences.