

PROGRAM BOOK FOR
SEMESTER INTERNSHIP



Name of the Student: **KATCHALLA SATISH**

Name of the College: **MRS AVN COLLEGE**
Visakhapatnam.

Registration Number: **720130805144**

Period of Internship: 15 weeks (540 Hours) **From: 01.04.2023 To: 14.07.2023**

Name & Address of the Intern Organization:

Orbit Power Technics Address: 3rd Line Srinagar, Dwarakanagr, sVisakhapatnam-530016

Mrs AVN COLLEGE, Visakhapatnam.

Andhra University

YEAR 2022-2023



an internship. Not only that, by doing an internship, I am able to undergo challenges which are normal in a working life setting.

CHAPTER I: EXECUTIVE SUMMARY

The internship program at orbit power techs, vishakhapatnam, conducted from 01 April 2023 to 10 July 2023, offered an enriching and comprehensive training experience in the power and electrical engineering domain. Throughout the internship, I focused on three main topics:

1. Installation and service of ups and inverter battery.
2. electrical house wiring, and
3. power electronics related to inverter ups.

During the training I gained in depth knowledge of ups and inverter systems, understanding their working principles and applications. practical exercises honed my skills in the power installation, servicing, and troubleshooting of these critical power backup solutions. Additionally I familiarized myself with electrical house wiring including circuit diagrams, symbols, and safety protocols, and gained hands-on experience wiring installations for residential and commercial buildings.

The training also delved into power electronic circuit for ups. The hands on approach and guidance from experienced mentors significantly contributed to my growth as a power and electrical engineering professional.

By the end of the internship, I successfully integrated the knowledge gained from these by the end of the internship

or is it purely online? , Discuss how your site might be the ideal location for your customers.

Promotions: The final part of your software company marketing plan is where you will document how you will drive potential customers to your location(s). The following are some promotional methods you might consider:

- Quarterly press releases to industry-wide interest groups
- Engage in social media mining and marketing
- Offer informative blogs; become a speaker in seminars
- Create a strong presence at tech trade shows and conferences
- Give expert opinions on tech social media platforms
- Improve the SEO (search engine optimization) on your website for targeted keywords

F. Future Plans of the Organization.

Our speculations for the future say that AI, machine learning, and data science will affect all spheres, and software code will automate most jobs worldwide. And all the software running around the world will need experts in software engineering to develop, maintain, and improve their working. This means that the software engineer demand in the future is going to rise, for more managerial roles like taking care of automated software, etc.

The customer demands for software are altering daily in the market, which has opened the sphere of innovation for organizations. While the new technologies being used today demand new skills and the assistance of skilled and experienced software engineers, the software engineers are working hard to learn new languages and stay updated with the trends.

Along with skills, software engineers will need to possess higher levels of ethics and integrity to work in data privacy and transparent AI applications. Software engineers' future prospects will increase as they adapt to the ever-changing digital world around them.

1. Cloud services

2. Artificial Intelligence

Day & Date	Brief Description of The Daily Activity	Learning Outcome
Day -1 08/04/23 Saturday	Installation and secure of ups and inverter both	ups installation.
Day -2 10/04/23 Monday	Explain about understanding the charging principle	learn about charging principles.
Day -3 11/04/23 Tuesday	Explain about understanding the application of ups and inverter	learn about ups application.
Day -4 12/04/23 Wednesday	Explain about components & their function	learning about the components in ups.
Day -5 13/04/23 Thursday	Explain about practical exercise on loading and assembling ups and inverter components	learn about practical exercise.
Day -6 14/04/23 Friday	Lab-2	Lab

WEEKLY REPORT
WEEK - 4. (From Dt. 22/04/23 to Dt. 28/04/23.....)

Objective of the Activity Done:

Electrical House wiring - basic and safety.

Detailed Report:

Since the 1990s, my house (and in any other home that has been renovated) has had to follow an electrical code: the NEC code (with safety in mind). NEC code identifies types of electrical wires and electrical code types by color. When you remove a switch plate, you've probably noticed yellow, white, black, red or green wires. They are not there to do decoration.

Electrical wiring can be tricky. Especially if you notice. That's why it's usually best to hire a professional to do anything other than a simple job. Otherwise you could see injury, damage or fire. If you do plan to complete a DIY project that has an electrical component, there are some basic things to know about wiring installation.

ACTIVITY LOG FOR THE EIGHTH WEEK

Day & Date	Brief Description of The Daily Activity	Learning Outcome	Person In-Charge Signature
Day -1 20/10/23 Saturday	Explain about explaining of evaluation of feedback on wiring installation	Learn about wiring installation	
Day -2 21/10/23 Monday	Explain about explaining of introduction to power electronics - rectifier in UPS	Learn about power electronics in UPS.	
Day -3 23/10/23 Tuesday	Explain about explaining of introduction to power electronics - inverter in UPS.	Learn about power electronics in inverter.	
Day -4 24/10/23 Wednesday	Explain about study of power electronic devices used in UPS systems.	Learn about power electronic devices in UPS system.	
Day -5 25/10/23 Thursday	Explain about understanding the basics of power converter and regulator.	Understanding to basic of power conversion project.	
Day -6 26/10/23 Friday	Lab-8	Lab.	