

GOVERNMENT DEGREE COLLEGE  
RAJAMPETA

SEMESTER INTERNSHIP (LONG-TERM)

RECORD BOOK  
2023-24

Designed & Developed by



ANDHRA PRADESH  
STATE COUNCIL OF HIGHER EDUCATION  
(GOVERNMENT OF ANDHRA PRADESH)



PROGRAM BOOK FOR  
**SEMESTER INTERNSHIP**

Name of the Student: R. NARENDRA

Name of the College: Government degree college

Registration Number: 216030054017

Period of Internship: From 28/01/2024 to 28/04/2024

Name & Address of the Intern Organization: Dixon Technologies,  
Tirupati: 517501, Andhra Pradesh

YEAR

2023-24

Yogi Vemana University

KADAPA

An Internship Report on

DIXON TECHNOLOGIES

(Title of the Semester Internship Program)

Submitted in accordance with the requirement for the degree of

B. SC (MSS)

Under the Faculty Guidance of

V.K. MASTHAN VALI

(Name of the Faculty Guide)

Department of

MATHEMATICS

(Name of the College)

Submitted by:

R. NARAYANA

(Name of the Student)

Reg.No: 216030054018

Department of MATHEMATICS

GOVERNMENT DEGREE COLLEGE, RAJAMPET

(Name of the College)



## Instructions to Students

Please read the detailed Guidelines on Internship hosted on the website of AP State Council of Higher Education <https://apsche.ap.gov.in>

1. It is mandatory for all the students to complete Semester internship either in V Semester or in VI Semester.
2. Every student should identify the organization for internship in consultation with the College Principal/the authorized person nominated by the Principal.
3. Report to the intern organization as per the schedule given by the College. You must make your own arrangements for transportation to reach the organization.
4. You should maintain punctuality in attending the internship. Daily attendance is compulsory.
5. You are expected to learn about the organization, policies, procedures, and processes by interacting with the people working in the organization and by consulting the supervisor attached to the interns.
6. While you are attending the internship, follow the rules and regulations of the intern organization.
7. While in the intern organization, always wear your College Identity Card.
8. If your College has a prescribed dress as uniform, wear the uniform daily, as you attend to your assigned duties.
9. You will be assigned a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow interns. Post your daily activity done and/or any difficulty you encounter during the internship.
10. Identify five or more learning objectives in consultation with your Faculty Guide. These learning objectives can address:
  - a. Data and Information you are expected to collect about the organization and/or industry.
  - b. Job Skills you are expected to acquire.
  - c. Development of professional competencies that lead to future career success.
11. Practice professional communication skills with team members, co-interns, and your supervisor. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.
12. Be aware of the communication culture in your work environment. Follow up and communicate regularly with your supervisor to provide updates on your progress with work assignments.



13. Never be hesitant to ask questions to make sure you fully understand what you need to do your work and to contribute to the organization.
14. Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.
15. At the end of internship, you shall be evaluated by your Supervisor of the intern organization.
16. There shall also be evaluation at the end of the internship by the Faculty Guide and the Principal.
17. Do not meddle with the instruments/equipment you work with.
18. Ensure that you do not cause any disturbance to the regular activities of the intern organization.
19. Be cordial but not too intimate with the employees of the intern organization and your fellow interns.
20. You should understand that during the internship programme, you are the ambassador of your College, and your behavior during the internship programme is of utmost importance.
21. If you are involved in any discipline related issues, you will be withdrawn from the internship programme immediately and disciplinary action shall be initiated.
22. Do not forget to keep up your family pride and prestige of your College.

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## Student's Declaration

Revathi Narendran a student of B.Sc (MSc)  
Program, Reg. No. 216020054618 of the  
Department of mathematics College do hereby declare that I have  
completed the mandatory internship from 27/01/2024 to 27/02/2024  
DIXON PVT LTD in (Name of  
the intern organization) under the Faculty Guidance of  
VK. Mathan Vali (Name of the Faculty Guide), Department of  
mathematics  
Government Degree College Palamkottai (Name of the College)

R. Narendran  
(Signature and Date)



## Student's Declaration

I, REVUJI NAGENDRA a student of B.Sc (MATHS)  
Program, Reg. No. 216030024618 of the  
Department of Mathematics College do hereby declare that I have  
completed the mandatory internship from 22/01/2024 to 22/01/2024  
DIXON PVT LTD in (Name of  
the intern organization) under the Faculty Guidance of  
V.K. Masthan Vali (Name of the Faculty Guide), Department of  
Mathematics,  
Government Degree College Rajampet (Name of the College)

R. NAGENDRA  
(Signature and Date)

# Official Certification

This is to certify that Revuxi: Naxendra (Name of the student) Reg.No. 21603005018 has completed his/her Internship in DIXON PVT LTD (Name of the Intern Organization) on PRODUCTION (O.E.C) (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of III B.S.C CMS CS in the Department of GOVT. DEGREE COLLEGE (Name of the College).

This is accepted for evaluation.

  
(Signatory with Date and Seal)

Lecturer in Maths  
Government Degree College  
Rajampet, Kadapa (Dt.)

Endorsements

Faculty Guide



Head of the Department



Principal

PRINCIPAL  
Govt. Degree College  
RAJAMPET - 516 115.  
Annamayya Dist.



## Certificate from Intern Organization

This is to certify that Revathi Narendran (Name of the Intern)  
Reg.No 216030054018 of Govt. degree college (Name of the  
College) underwent internship in Dixon Technologies (Name of the  
Intern Organization) from 28/01/2024 to 28/04/2024

The overall performance of the intern during his/her internship is found to be  
satisfactory (Satisfactory/Not Satisfactory).

Authorized Signatory with Date and Seal

## ACKNOWLEDGEMENTS

1st I would like to thank contractor of Dixon  
Mathematics Pvt. Ltd, giving me the opportunity to do  
internship within the organization.

I also would like all the people that worked along  
me Dixon Pvt, Ltd, Thirupathi with their patience and  
mass they created an enjoyable working  
environment. It is indeed with a great sense of  
love and immense sense of gratitude that I  
acknowledge the help of these individuals.

I am highly indebted to principal B. Purushotham sir,  
for the facilities provided to accomplish this  
internship.

I would like to thank my Head of the Department  
sir for this constructive criticism throughout my  
internship.

I would like to thank internship mentor  
Department of Mathematics for their support and advice  
to get and complete internship.

I am extremely great full to my department  
staff members and friends who helped me in  
successful completion of this internship.



## CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have only a one-page executive summary. It shall include five or more Learning Objectives and Outcomes achieved, a brief description of the sector of business and intern organization and summary of all the activities done by the intern during the period.

This report is a detailed overview of my internship journey at Dixon Technologies P.LTD in Thirupathi. During my Internship I have learned a lot about communication and working experience with the company, manufacturing, International selling and it's different applications. I have known about the Import and export. I have to learn to work in TV manufacturing process. It not only enriched me professionally but also helped me grow personally as well. My contribution was appreciated by my supervisor and other members of the department. The career path I would be selectically for myself is quite influenced from my Internship. How ever, This my level best to make it - meaningful by reflecting my works at the Dixon Technologies P.LTD. I have summarized my overall experience with my learning and challenges faced as an intern.



## CHAPTER 2: OVERVIEW OF THE ORGANIZATION

### Suggestive contents

- A. Introduction of the Organization
- B. Vision, Mission and Values of the Organization
- C. Policy of the Organization, in relation with the intern role
- D. Organizational Structure
- E. Roles and responsibilities of the employees in which the intern is placed.
- F. Performance of the Organization in terms of turnover, profits, market reach and market value.
- G. Future Plans of the Organization.

Dixon Technologies Pvt Ltd, is a unlisted private company incorporated on 08 February, 2017. It is classified as a private company and is located in Gautam Buddha Nagar, UP. Its authorized share capital is INR 27.00 and the total paid-up capital is INR 19.00.

"To emerge as the largest and most cost effective complete solution provider for consumer electronics, home appliances, lighting electronics, mobile phone sectors for the domestic and international market," ever since its inception. Dixon is driven by its vision. The group has carved a firm place for itself at the forefront of electronic manufacturing and services industry in India. Clearly defined missions, have helped Dixon retain its clients for electronics manufacturing services in India and globally.

Minimum salary in Dixon Technologies depends on the role of the role of you are applying. They need to explore more & explore more products through all over the world.



## CHAPTER 3: INTERNSHIP PART

Description of the Activities/Responsibilities in the Intern Organization during Internship which shall include - details of working conditions, weekly work schedule, equipment used, and tasks performed. This part could end by reflecting on what kind of skills the intern acquired.

There is 7 benefits that we gain from doing an internship.

1. Gain valuable work experience.

Companies are often willing to train interns, giving them a valuable avenue to a full time position. Decide if this is the right career for you.

2. Confirm if the industry and company is the right fit for you and what you really want to be doing, without making a long term commitment.

3. Networking opportunities.

Meet people in your field who can help you land a full time job, teach you about new business opportunities, or serve as a reference for future applications.

4. Gain an advantage in the job market.

Having relevant, professional work experience on your resume will help you stand out from other applicants.

5. Transition into a job.

Internship can give you valuable insight into what working a full-time position at a company would be like. Apply classroom knowledge.

You have the chance to use the skills you learned in the classroom in a real world setting.

6. Gain confidence: Experience in your industry will



# ACTIVITY LOG FOR THE FIRST WEEK

| DAY & DATE | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                                               | LEARNING OUTCOME                      | Person In-charge Signature                                                            |
|------------|-------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | I Visit the company and Introduced my self to the contractor.                                         | Introduction                          |    |
| Day - 2    | To day contractor Introduced me to the HR Ashok Sir and I did Some Paper work To Join in the company. | meeting with H.R.                     |    |
| Day - 3    | Today supervisor Explained the whole manufacturing process of the L.E.D.T.V.                          | Know about the manufacturing process. |   |
| Day - 4    | In this company the raw materials emprotng from different from other countries.                       | Improtng of raw materials.            |  |
| Day - 5    | To day we saw the entire company and In this company there are a sheds.                               | Visiting of sheds                     |  |
| Day - 6    | In that a sheds two sheds are using for logistics and 7 sheds are used for manufacturing purposes.    | Logistics products.                   |  |



## WEEKLY REPORT

WEEK - 1 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report: Training process

In this 1<sup>st</sup> week I visit the company Dixon P. LTD. In this company they are provide contractor for the Interchip program. The contractor that he will introduce his self to us, and he will introduce explain about How to start the Interchip program in the company. we can get on meeting with H.R. Shlok Kumar Sir he will explain about the company formation finally I did some paper work to join in the company for my semester Interchip program. we visit the main company. we know that the Dixon company was manufacturing T.V. s. In that meeting they will explain the safety problems and their company Information and also life policy for the employees. we can know the maximum salary the provides for employee.



# ACTIVITY LOG FOR THE SECOND WEEK

| DAY & DATE | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                      | LEARNING OUTCOME                                     | Person in-charge<br>Signature                                                         |
|------------|------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | In that I shed different one manufacturing different types of company T.V.s. | Different types of company TVs.                      |    |
| Day - 2    | I visit the store room that the imported raw materials are stored in there.  | about the store                                      |    |
| Day - 3    | To know the motive of the organisation.                                      | Intention of the organisation                        |   |
| Day - 4    | To know the process of production.                                           | How to Produce the goods                             |  |
| Day - 5    | To produce the goods how to convert raw materials the machinery.             | To insert the raw materials in the machinery.        |  |
| Day - 6    | To convert the raw materials into goods                                      | How to convert the raw materials into finished goods |  |



## WEEKLY REPORT

WEEK - 2 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report: Information about organization

This week we make report for the company structure. In this entire company they are 10 sheds. In these sheds some sheds are used for manufacturing process and some sheds are used for storage. In this company they are manufacturing different types of company TVs. In some sheds they store the product to transport. The products are transported in lorries. We visit the store rooms also. In that store room the imported raw materials are stored. In there we know about the stores. In T.V. manufacturing process the raw materials are imported from different places and converted into products. To know the motive organization



# ACTIVITY LOG FOR THE THIRD WEEK

| DAY<br>&<br>DATE | BRIEF DESCRIPTION OF THE DAILY<br>ACTIVITY                                                                  | LEARNING OUTCOME                                 | Person<br>In-charge<br>Signature                                                      |
|------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1          | Senior staff are explaining about the company and the working process.                                      | class for the working process in the company.    |    |
| Day - 2          | In this company they are manufacturing L.E.D T.V.s.                                                         | manufacturing products.                          |    |
| Day - 3          | DMI 4) LLOYD 7) Samsung<br>2) VU 5) PHILIPS 8) Toshiba<br>6) PANASONIC<br>3) HISENSE. 9) DELL               | manufacturing different brands T.V.S.            |  |
| Day - 4          | They are providing life insurance for the employees for any accident.                                       | safety problems that is providing in the company |  |
| Day - 5          | In this manufacturing process the raw materials are imported from different places.                         | Importance process                               |  |
| Day - 6          | Imported goods are converted into final products and the products are export to other states and countries. | Export process.                                  |  |



# WEEKLY REPORT

WEEK - 3 (From Dt. \_\_\_\_\_ to Dt. \_\_\_\_\_)

Objective of the Activity Done:

Detailed Report:

Types of Companies TV's manufacturing

This week we know about the T.V. companies and working process. In this company they are manufacturing L.E.D. T.V's different type of companies are contract with the company to manufacture there T.V.s.

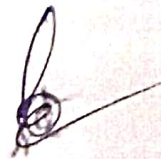
In this company they are a T.V. companies are making T.V's with the company they are:-

- |            |              |            |
|------------|--------------|------------|
| 1) HE      | 4) WOOD      | 7) Samsung |
| 2) VU      | 5) PHILIPS   | 8) Tashiba |
| 3) HISENSE | 6) PANASONIC | 9) DELL    |

This company are contract with the Dixon company for some particular year's. The facilities that company provided to the employees like food facilities, health facilities, and some policy for any accident are death. This made the employees to work properly.



# ACTIVITY LOG FOR THE FOURTH WEEK

| DAY<br>&<br>DATE | BRIEF DESCRIPTION OF THE DAILY<br>ACTIVITY                                                          | LEARNING OUTCOME      | Person<br>In-charge<br>Signature                                                      |
|------------------|-----------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------|
| Day - 1          | T.V Panel typically refers to the display screen of a Television. The panel is the part of the T.V. | Panel Inspection      |    |
| Day - 2          | T.V. panels come in various sizes. Ranging from small displays suitable.                            | Range of T.V Panel    |    |
| Day - 3          | T.V. panels will come in different sizes that are 32, 43, 55, 65, 75, 100 Inches.                   | sizes of T.V Panel    |   |
| Day - 4          | T.V. electronic components assemble.                                                                | Assembling            |  |
| Day - 5          | The back cover of a T.V is attached with screws and clips.                                          | Fixing of Back cover  |  |
| Day - 6          | Manufacturers will typically have specific quality control process.                                 | fixing of Back cover. |  |



## WEEKLY REPORT

WEEK - 4 (From Dt. .... to Dt. ....)

Objective of the Activity Done:

Filed Report:

Inspection of T.V panel

This week we know about the T.V panel inspection. T.V. panel typically refers to the display screen of a television. physical inspection may involve looking for defect in the panel must be free from any physical imperfections that may affect its performance or appearance.

Functional inspection involves testing the panel's display quality, brightness, color accuracy, contrast ratio, and other performance metrics. The panel must meet certain standards for each of these metrics in order to ensure that the final product meets customer expectations.

Overall, T.V panel inspection is an important part of the manufacturing process to ensure that the final product meets quality standards and provides a high-quality viewing experience for consumers.



# ACTIVITY LOG FOR THE FIFTH WEEK

| DATE | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                                       | LEARNING OUTCOME               | Person In-charge<br>Signature                                                         |
|------|-----------------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|
| 1-1  | The TV classis will need to be prepared for the power word attachment                         | Preparing the T.V. classis     |    |
| 1-2  | onces the classis is ready The power cord will be Corneved to the T.V.                        | cometing the power cord        |    |
| 1-3  | After the power cord is attached the cometing is need to be tesved to ensure.                 | testing the cometing           |   |
| 1-4  | once the power cord connection have been tested & verified the T.V. classis will be closed up | Finalyssing the assembly       |  |
| 1-5  | beper ding on how the TV is Fixed inthe input side you may need different tools.              | Using proper tools for fixing. |  |
| 1-6  | T.V. Physically Fixed in input side.                                                          | T.V. Input side                |  |



## WEEKLY REPORT

WEEK - 5 (From Dt. .... to Dt. ....)

Objective of the Activity Done:

Final Report: \* Preparing of different chassis \*

To preparing a T.V. chassis, the T.V. chassis will need to be prepared for the power cord attachment, once the chassis is ready the power cord will be connected to the T.V. After the power cord is attached to connecting is need to be tested to ensure.

Steps:-

\* Ensure that the T.V. set is plugged into a power source and turned on.

\* Use the remote control to navigate to the desired T.V. channel or program.

Some tips for a better T.V. viewing experience

\* Choose a comfortable viewing location and

adjust the lighting to reduce glare

\* Take breaks if watching for an extended

period to avoid eye strain.

\* Experiment with different picture and

sound settings to find the best configuration.



| DATE | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                                                     | LEARNING OUTCOME                                | Person In-charge Signature                                                            |
|------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------|
| y-1  | The power-on condition of agging is minutes.                                                                | agging                                          |    |
| y-2  | The agging process is used to verify the problems and show them.                                            | verifying problems in agging                    |    |
| y-3  | Teshing is another Important process in manufacturing of T.V.s.                                             | Testing                                         |   |
| y-4  | HDMI is the Hidesination multimedia intereface it is an all digital audio video transmit information.       | Testing HDMI Hidesination multimedia inter face |  |
| y-5  | Local area Network is a computer that covers a small are typically within a single compus.                  | Testing LAN                                     |  |
| y-6  | During T.V. manufacturing radio promueny reshing in volves measuring the amount of electrongnole radiation. | Testing R.F                                     |  |



## WEEKLY REPORT

WEEK - 6 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Aging in power on condition.

Aging is an important process in T.V. manufacturing that involves testing the T.V panels and components to ensure they quality. In the aging process, The TV panels and components are subjected to various such as temperature and humidity variation, to simulate real world usages conditions. This helps to detect any issues that may arise over time and ensure that the T.V are durable and reliable.

The aging process can also helps to improve the overall quality of the T.V sets by identifying and correcting any defects during the testing process. manufacturing can reduce the likelihood of customer complaints and returns overall. The aging process is a crucial step in TV manufacturing that helps to ensure that the products are of high quality reliable and meet customer expectations.



# ACTIVITY LOG FOR THE SEVENTH WEEK

| DATE    | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                        | LEARNING OUTCOME                          | Person In-charge Signature                                                            |
|---------|--------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1 | White balance is a checking of T.V panel screen.                               | The process of W.B stage                  |    |
| Day - 2 | In this stage the W.B means that it is colour analyser of the T.V.             | W.B is an colour analyser                 |    |
| Day - 3 | A small device, especially an electrode, used for measuring, testing the T.V   | The white balance having the 410 probe.   |   |
| Day - 4 | 410 probe the colour R,G,B The path runs checking to T.V screen.               | Checking of Probe with different colours. |  |
| Day - 5 | If any abnormal colours like (black, blue, white) TV's can't pass in W.B stage | TV's passing stage                        |  |
| Day - 6 | finally the TV's are checking with usb cable (usb (universal serial bus))      | Final checking with usb                   |  |



## WEEKLY REPORT

WEEK - 7 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

TV White Balance Adjustment

White balance is an important stage in TV manufacturing as it ensures that the colours displayed on the screen are accurate and consistent. White balance is the process of adjusting the colour temperature of a display match the lighting conditions of the environment where it will be used.

During the manufacturing process, technicians use specialised equipment to measure the colour temperature of the screen and make adjustments to the red, green and blue colours are displayed accurately. This process is typically performed at the factory but some TVs also include user controls for adjusting in a room.

Without proper white balance, colour may appear too warm, distracting and make it difficult to accurately assess image quality.



| DATE  | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                                                         | LEARNING OUTCOME                                  | Person In-charge Signature                                                            |
|-------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------|
| y - 1 | The back cover of the T.V is usually made of plastic or metal                                                   | The Back cover Preparation and passing Back cover |    |
| y - 2 | closing of unwanted holes with Black taps to protect the T.V with dust.                                         | closing of holes with wing of tap.                |    |
| y - 3 | Attaching of clips to the Back cover for inserting of motherboard.                                              | fixing clips in Back cover                        |   |
| y - 4 | checking the back cover with like scratches painting problem and bends.                                         | checking the damages in Back cover                |  |
| y - 5 | cleaning the back cover will be cleaned with specific liquid all 3 sides <sup>air pressure</sup> to remove dust | cleaning of Back cover with air                   |  |
| y - 6 | The Back cover will be cleaned with specific liquid all 3 sides except bottom.                                  | cleaning the cover with liquid.                   |  |



## WEEKLY REPORT

WEEK - 8 (From Dt ..... to Dt .....)

Objective of the Activity Done:

Detailed Report:

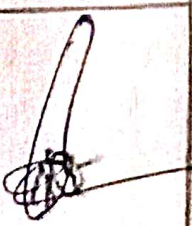
Back cover fixing process

The back cover of the T.V is usually made of plastic or metal. It ensure that the components inside the T.V are properly protected and sealed. The back cover is first inspected for any defects or damage. The surface of the back cover is cleaned to remove any dust or debris the could affect the adhesion of the adhesive tape or screws.

The adhesive tape is applied to the inner edge of the back cover to ensure that the adheres firmly to the T.V frame. In addition to the adhesive tape screws may also be used to secure the back cover to the T.V frame the screws are inserted into pre drilled holes on the back cover. cleaning the back cover of a T.V. The solution typically consist of a mixture of water and mild detergent. The solution should be mixed according to the manufacturers instructions, and in a clean container.



# ACTIVITY LOG FOR THE NINTH WEEK

| DAY & DATE | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                                     | LEARNING OUTCOME             | Person In-charge Signature                                                            |
|------------|---------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | Moving of Back cover to Input stage of LCM (Liquid crystal module)                          | moving back cover into LCM   |    |
| Day - 2    | Scanning Back cover for checking serial number to know that the Back cover is Pass or fail. | Scanning Back cover Bar code |    |
| Day - 3    | Scanning of LED Light Bar and it will be linked to specific Bar code of Back cover.         | Scanning of LED Light Bar's  |   |
| Day - 4    | Sticking of LED Lights to Back covers by using glue                                         | Sticking of LED Bars         |  |
| Day - 5    | Topping of LED Bars for safety purpose and stiffness.                                       | Tapping of LED Bars          |  |
| Day - 6    | Fixing of wires to the LED Bars for power supply.                                           | Fixing of wires              |  |



Objective of the Activity Done:

Detailed Report:

Process of input stage in LCM

In this week we work in the one of the main manufacturing process of LCM stage (Liquid crystal module), in LCM stage the room was fully protected from dust and also fully AC cooler. on LCM they are three stages Input, open cell and output stage first we learn about the Input stage. In LCM in this stage first scanning of Black cover checking serial number to know the particular Back cover is pass or fail in before stage. Then scanning of L.B.D Light Bar that each LED Light Bar consist of 5 LED Lights and the Light Bar are linked to specific Bar Code of the Black cover. The Light Bar's was fixed in the Back cover with wing of glue, and then connecting electric wires to the light Bar's for power supply.



| DATE    | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                       | LEARNING OUTCOME                          | Person In-charge Signature                                                            |
|---------|---------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1 | changing of Back cover into another conveyor on top of Ballot | Passing Back cover to another line        |    |
| Day - 2 | placing of Back light sheet on top of LBB Bar                 | fixing of LED Back Light sheet            |    |
| Day - 3 | Fixing supports in the Back cover for the screen protection.  | fixing of supports                        |   |
| Day - 4 | screwing the supports for stiffness with machine              | screwing of supports                      |  |
| Day - 5 | Final checking of Back cover in LCM input side                | final checking                            |  |
| Day - 6 | Passing of Back covers from LCM input to open cell in LCM.    | Passing of Back cover to open cell in LCM |  |



## WEEKLY REPORT

WEEK - 10 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

placing of Back light sheet

This week also continue in the same stage for some more process in the stage. placing of Back light sheet on top of LED Bar fixing supporters in the back cover for the display screen protection and screwing the supporters for stiffness with the help of screwing machine.

In the case of a liquid crystal display (LED) TV the input stage would involve receiving the various components such as the LED panel, backlight circuit boards Power supply and other hard ware. each components would undergo a series of test and inspection to ensure that they meet the required specifications and quality standards.

once the components pass inspection they would be assembled into the TV set and undergo further quality checks and testing.

The input stage as it sets the foundation for the quality and reliability of the finished product.



# ACTIVITY LOG FOR THE ELEVENTH WEEK

| DATE | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                 | LEARNING OUTCOME                                   | Person In-charge Signature                                                            |
|------|-------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------|
| 10-1 | Preparing of white sheet for the purpose of brighting of T.V screen     | Preparing of white sheets                          |    |
| 10-2 | checking of Back Back lights for any damages in light                   | checking of LED Light Box                          |    |
| 10-3 | Fixing of white sheet and also checking that for any damages            | checking of white sheet damages, dust, black dots. |   |
| 10-4 | While cleaning the white sheet by using vacuum cleaner                  | cleaning of white sheet                            |  |
| 10-5 | The open cell can checked for any damages with help of led light table. | Testing open cells                                 |  |
| 10-6 | Fixing of open cell on top of Back cover                                | fixing of open cell                                |  |



Objective of the Activity Done:

Detailed Report:

Back light checking in LCM

This week conduct the program in open LCM that Backlight checking in TV manufacturing. In a typical LCD TV manufacturing process. The backlight unit is assembled separately from the display panel. The backlight unit consists of a series of light emitting diodes (LED) a cold cathode fluorescent lamps (CCFLs) arranged in a specific pattern provide the required illumination for the display panel.

During the backlight checking process. The assembled backlight unit is connected to a power source and undergoes a series of tests to check for defects such as dead or dim pixels uneven brightness and color balance. This process may be performed using specialized equipment or manually by trained technicians. Once the backlight has been checked and passed inspection it is then mounted onto the display panel and undergoes further testing to ensure that the TV product.



# ACTIVITY LOG FOR THE TWELFTH WEEK

| DATE    | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                     | LEARNING OUTCOME                       | Person In-charge Signature                                                            |
|---------|-----------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1 | Removing of double tap cover under the open cell to fix it                  | Removing of double tap cover glass cut |    |
| Day - 2 | Routing the display panel with router in 3 sides of panel.                  | Routing of panel for stiffness         |    |
| Day - 3 | Removing of white cover in panel for the scratches.                         | Removing of cover                      |   |
| Day - 4 | The 4 sides of the panel will be tapped for some more support.              | Tapping of 4 sides of the T.V.         |  |
| Day - 5 | I the pannel that open cell can connected to ffe to connect the main board. | Fixing ffc to open cell                |  |
| Day - 6 | Capping of Browing in panel for protecting from electric waves.             | Tapping of Browing                     |  |



The open cell process involves the assembly of the liquid crystal layer and color filters onto a glass substrate forming the LCD panel. The LCD panel is then tested for defects such as dead pixels or color balance issues, and if necessary repaired or discarded.

Once the LCD panel passes inspection it is shipped to a TV assembly plant where it is mounted onto a back plane, which includes the circuitry for controlling the individual pixels of the display. This process is known as the closed cell process.

FFC (Flexible Flat cables) are thin, flat ribbon like cables that are used to connect various components within a TV, such as the LCD panels control board, backlight, and other small work components. They are commonly used in LCD TVs because of their flexibility, high-density, and ability to transmit signals over longer distances than other cable types.



# LOG FOR THE THIRTEENTH WEEK

## BRIEF DESCRIPTION OF THE DAILY

### ACTIVITY

### LEARNING OUTCOME

Person  
In-charge  
Signature

Fixing of plastic bar  
under the T.V Panel with  
the help of screwing.

Fixing of  
plastic Bar

~~Signature~~

Dark room:-

passing of panel into  
dark room for checking  
of panel.

Passing of  
Panel

~~Signature~~

Defferent types of  
problems in panel. Black  
dors white dors, brown dors  
Ghost images Problems

Damages  
in  
Panel

~~Signature~~

The Fixing Ffc are  
checked In dark room  
with System.

F F C  
checking

~~Signature~~

The panels are final  
scanning that the panel  
is properly made or not

LCM output  
scanning

~~Signature~~

that the Pass panels are  
transfer to F.A line and  
some panels are stored.

storing of  
Panels in  
trallies.

~~Signature~~



## WEEKLY REPORT

WEEK - 13 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

The process of dark room checking

During the dark room checking process the TV is placed in a specially designed dark room where the ambient lighting is controlled and minimized. The TV is then connected to signal generator, which displays various test patterns and images on the screen. Technicians then examine the TV screen for any defects such as pixel defect color banding or backlight bleeding. They also check for uniformity of brightness and color across the screen and the ability of the TV to display deep blacks and accurate color in low light conditions.

The dark room checking process is essential for ensuring that the TV is capable of delivering a high quality viewing experience particularly of movies or TV shows with dark or dimly lit scenes. Any defects or issues with the display can result in a poor viewing experience and customer dissatisfaction.



# ACTIVITY LOG FOR THE FOURTEENTH WEEK

| DAY & DATE | BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                               | LEARNING OUTCOME                                            | Person In-charge Signature                                                            |
|------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 17-1       | In F.A Line the first process is Panel inspection and M.B. fixing and FATVSW scanning | M.B Preparation in FA Line                                  |    |
| 17-2       | FFC assembled and Back cover assembling fixing of connectors                          | IR preparation & speaker wire prepare and slit: Preparation |    |
| 17-3       | Testing the Panel & fixing m pot and it is tested with USB                            | USB testing                                                 |   |
| 17-4       | Back cover fixing & moved to scanning section.                                        | Scanning of Back cover                                      |  |
| 17-5       | The scanning section the scanning converge will take 20 minutes.                      | time taken to scan Back cover                               |  |
| 17-6       | speakers are tested in this stage with different type of sounds.                      | testing of speaker                                          |  |



Name of the Activity Done: \_\_\_\_\_  
Date: \_\_\_\_\_  
Page: \_\_\_\_\_

## Process of PA (final Assembly) stage

FA (final Assembly) stage in TV manufacturing refers to the final step in the production process where all the individual components are assembled together into a ready TV product.

During the FA stage, the LCD panel, light unit, power supply, control board and other hardware components are assembled into a chassis. The TV chassis is then inspected for defects and undergoes various tests and checks to ensure that all the components are working. The power supply provides the necessary voltage and current to the TV's internal components. It is typically assembled into the chassis during the stage. The control board is the main processing unit of the TV, responsible for controlling the individual pixels on the LCD panel and communicating with other internal components.



# ACTIVITY LOG FOR THE FIFTEENTH WEEK

| BRIEF DESCRIPTION OF THE DAILY ACTIVITY                                             | LEARNING OUTCOME                | Person In-charge Signature                                                            |
|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------|
| In this stage Dot inspection and HBM testing                                        | Dot Inspection                  |    |
| In This process Lan & wifi are tested with specified system R.F part testing.       | Lan & wifi testing              |    |
| Resetting the panels After being checked the panel                                  | Reset the program in panel      |   |
| MRP is sticker are fixed and they will do on final inspection of T.V                | MRP scanning & final inspection |  |
| The Packing of T.V's with accessories like T.V stand remotes and wall screws.       | Packing of T.V's                |  |
| After fining of T.V It will be exported to different cities & some other countries. | Export                          |  |



## WEEKLY REPORT

WEEK - 15 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Input output parts and Export

Input output parts The parts like such as HDMI, USB and ethernet parts are typically installed into the TV chassis during the FA stage. The speakers are typically built into the TV chassis during the FA stage, providing the audio output for the TV.

The stand or mount is used to support the TV and is typically attached to the TV chassis during the FA stage. The parts used in the FA stage of TV manufacturing are critical for assembling.

In the packing stage also includes the additional features or accessories, like TV stand remote and some other screws in it exporting.

Dixon technologies has collaborated with Thirupathi Group to manufacture and export electronics products to various countries. The collaboration aims to leverage Dixon's expertise in electronics manufacturing and Thirupathi's expertise in global textile exports to expand their market reach.



to appreciate work and its functions  
economic.  
more career alternatives prior to graduation.  
graduate theory and practices.  
interest and abilities in these field of

develop communication, interpersonal and other  
skills in the job interview process.  
hold a record of work experience.  
secure employment contacts leading  
to full time job following graduation  
college.

identify, write down, and carry out performance  
expectations (mutually agreed upon by the employer)  
able to acknowledge and account for diversity  
in the work place, and advocate for equitable  
practices, justice, and the full inclusion of  
socially marginalized communities.



time technical skills acquired:

communication skills

Experience of work

Team work skills.

Soft ware skills.

Critical Thinking & problem solving skills

project management skills.

Time Management.

Artificial intelligence.



managerial skills acquired :

When it comes to selecting students for their internship programs, employers have a set of five competencies that are crucial for students to possess in terms of skills development. These are also among the skills employers and helping their interns to develop during the students' internships.

Information processing

Team work

planning, prioritizing

Decision making

verbal communication

problem solving.

Students and supervisors also rated each individual soft skill significantly higher at the end of the internship compared to the beginning of the internship. The largest difference between pre-internship and post-internship soft skills were related to communication.

Supervisors also saw their interns make gains on the initiative scale, including "Logically breaking a problem" approaching a problem independently and requesting increased responsibility. Management or managerial skills fall into three basic categories: Technical, human relations and conceptual skills.



## communication skills :

communication is the act of conveying meaning to another person using mutually understood signs & semiotic rules.

- The sender is the person who sends the message.
- the message is the information to be conveyed.
- the channel of communication is the manner in which.
- The message is sent: speaking, writing, video, audio, emails.

Asking colleagues or supervisors for feedback on my communication skills and work to improve areas that need development is an idea to help you communicate more effectively in internship.

1. volunteer to give a presentation.
2. Ask to host a team meeting.
3. seek feedback from your peers as well as all managers.
4. practise your "small talk" at informal times.
5. Reach out to those in a similar situation.
6. keep on learning and practising.

This is something that is worked on during our "Worked Integrated Learning program" to help you develop and grow these skills just in time for your internship. It's common knowledge that the best leaders are excellent and highly effective communication.



enhancement of abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

In this organization there are some discussion and meeting held weekly one, where we discuss about the financial growth and profit and losses in each and every aspect of Showroom.

Our owner in the workshop takes the leadership and explained how to deal with problem and creating some solution through the skills leadership which we learned from this internship.

I gained some leadership qualities and leading motivating the team to fulfill the requirements of the clients basis on their needs. I used to manage the team and also the workshop in the absence of the owner or workshop manager.

I went to advertising at the time. I was a team member and learned some behavior analysis of customers who come for enquiry and I was thought them or our team to that with customer with policy and also with respectivity.

Designers are responsible for creating the overall look and feel of the TV, as well as the layout of the components and internal hardware. They work closely with engineers to ensure that the design can be manufactured within the required specifications.



## Technological developments observed :

TV manufacturers have focused on developing new technologies to improve the picture quality, sound quality and overall user experience. Some of the notable advancements in TV technology.

OLED (Organic Light Emitting Diode) TV's offer superior picture quality compared to traditional LED TV's with deeper blacks, brighter whites and more vivid colors. 4K and 8K resolution these high resolution displays offer incredibly sharp and detailed images, making them ideal for watching movies, sports, and gaming.

HDR (High dynamic Range) technology allows for a wider range of colours and contrast, making the image more vibrant and lifelike.

Smart TV's are internet-connected devices that allow users to stream movies and TV shows, browse the web and use apps directly on their TV.

Many modern TV's comes with built in voice control, allowing users to navigate menus and search for content using voice commands. The technological advancement that have been made in TV industry as technology continues to evolve, we can expect to see even more exciting developments in the years to come.



StudentName: R. Narendra

RegistrationNo: 216030054018

TermofInternship:

From: 28/01/2024 To: 28/04/2024

DateofEvaluation:

OrganizationName&Address:

Dixon Technologies, Tirupati  
Andhra Pradesh

Name & Address of the Supervisor  
with Mobile Number

Please rate the student's performance in the following areas:

Please note that your evaluation shall be done independent of the Student's self-evaluation

Rating Scale: 1 is lowest and 5 is highest rank

|    |                                    |   |   |   |     |   |
|----|------------------------------------|---|---|---|-----|---|
| 1  | Oral communication                 | 1 | 2 | 3 | 4 ✓ | 5 |
| 2  | Written communication              | 1 | 2 | 3 | 4 ✓ | 5 |
| 3  | Proactiveness                      | 1 | 2 | 3 | 4 ✓ | 5 |
| 4  | Interaction ability with community | 1 | 2 | 3 | 4 ✓ | 5 |
| 5  | Positive Attitude                  | 1 | 2 | 3 | 4 ✓ | 5 |
| 6  | Self-confidence                    | 1 | 2 | 3 | 4 ✓ | 5 |
| 7  | Ability to learn                   | 1 | 2 | 3 | 4 ✓ | 5 |
| 8  | Work Plan and organization         | 1 | 2 | 3 | 4 ✓ | 5 |
| 9  | Professionalism                    | 1 | 2 | 3 | 4 ✓ | 5 |
| 10 | Creativity                         | 1 | 2 | 3 | 4 ✓ | 5 |
| 11 | Quality of work done               | 1 | 2 | 3 | 4 ✓ | 5 |
| 12 | Time Management                    | 1 | 2 | 3 | 4 ✓ | 5 |
| 13 | Understanding the Community        | 1 | 2 | 3 | 4 ✓ | 5 |
| 14 | Achievement of Desired Outcomes    | 1 | 2 | 3 | 4 ✓ | 5 |
| 15 | OVERALL PERFORMANCE                | 1 | 2 | 3 | 4 ✓ | 5 |

Date:

Signature of the Supervisor



# Student Self Evaluation of the Short-Term Internship

Student Name: REVUSI NASENDA

Registration No: 216030054018

Term of Internship:

From: 28/01/2024 To: 28/04/2024

Date of Evaluation:

Organization Name & Address: DIXON TECHNOLOGIES T'OUKATI

Please rate your performance in the following areas:

Rating Scale:

Letter grade of CGPA calculation to be provided

|    |                                   |   |   |   |     |   |
|----|-----------------------------------|---|---|---|-----|---|
| 1  | Oral communication                | 1 | 2 | 3 | 4 ✓ | 5 |
| 2  | Written communication             | 1 | 2 | 3 | 4 ✓ | 5 |
| 3  | Proactiveness                     | 1 | 2 | 3 | 4 ✓ | 5 |
| 4  | Interactionability with community | 1 | 2 | 3 | 4 ✓ | 5 |
| 5  | Positive Attitude                 | 1 | 2 | 3 | 4 ✓ | 5 |
| 6  | Self-confidence                   | 1 | 2 | 3 | 4 ✓ | 5 |
| 7  | Ability to learn                  | 1 | 2 | 3 | 4 ✓ | 5 |
| 8  | Work Plan and organization        | 1 | 2 | 3 | 4 ✓ | 5 |
| 9  | Professionalism                   | 1 | 2 | 3 | 4 ✓ | 5 |
| 10 | Creativity                        | 1 | 2 | 3 | 4 ✓ | 5 |
| 11 | Quality of work done              | 1 | 2 | 3 | 4 ✓ | 5 |
| 12 | Time Management                   | 1 | 2 | 3 | 4 ✓ | 5 |
| 13 | Understanding the Community       | 1 | 2 | 3 | 4 ✓ | 5 |
| 14 | Achievement of Desired Outcomes   | 1 | 2 | 3 | 4 ✓ | 5 |
| 15 | OVERALL PERFORMANCE               | 1 | 2 | 3 | 4 ✓ | 5 |

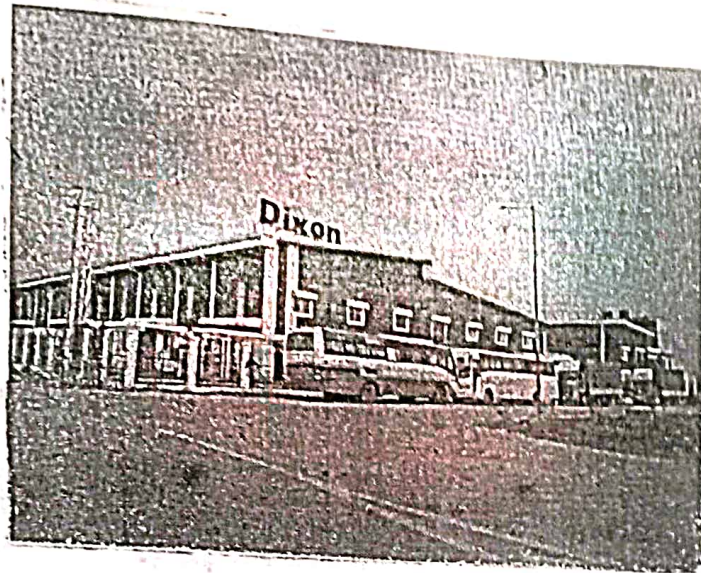
Date:

R. NASENDA  
Signature of the Student

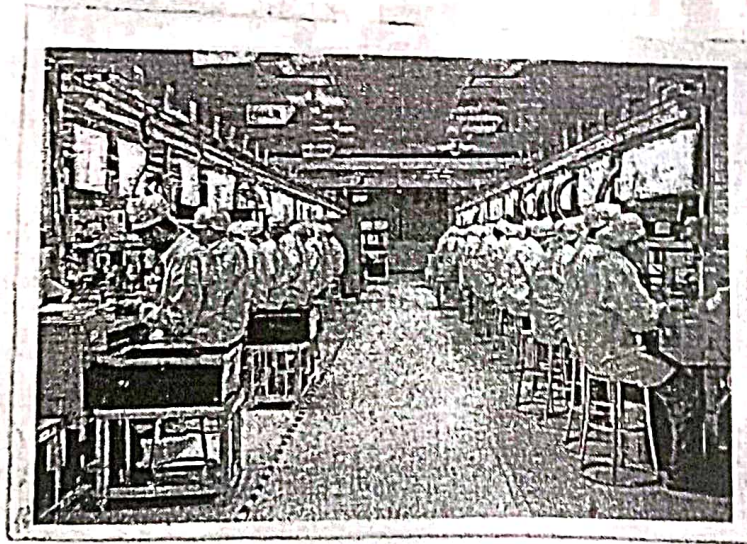
Evaluation by the Supervisor of the Intern Organization



## PHOTOS & VIDEO LINKS



(i) Outside and parking view of Dixon company

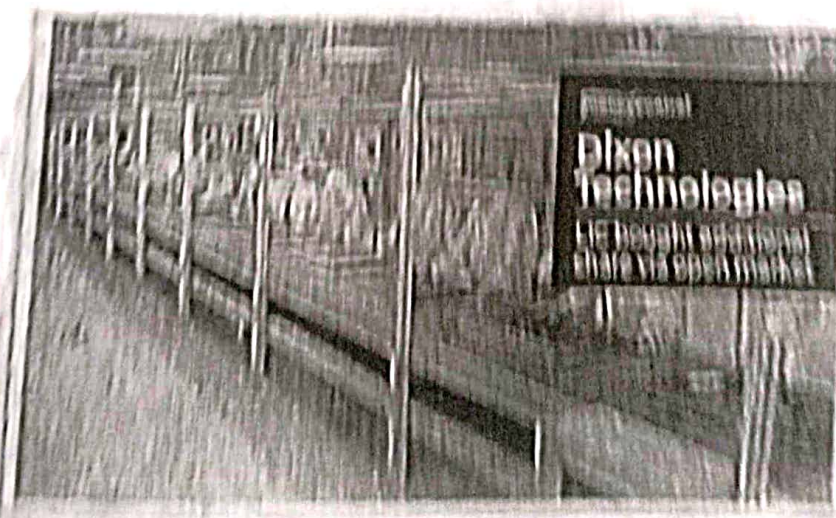


(ii) working of employees in the respective stalls in the sheds with Aprons & safety precautions



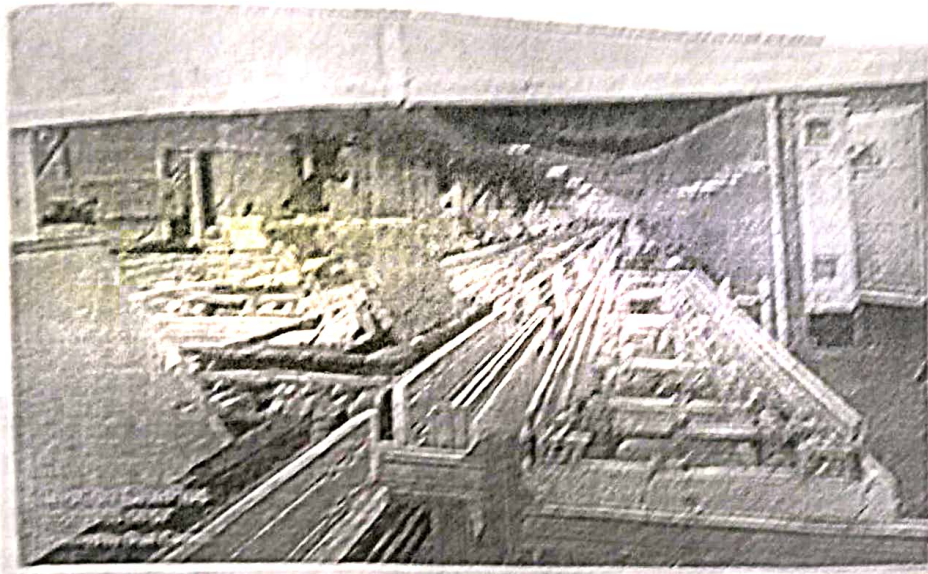


1) Checking of back panel inspection and parts at a Testing phase

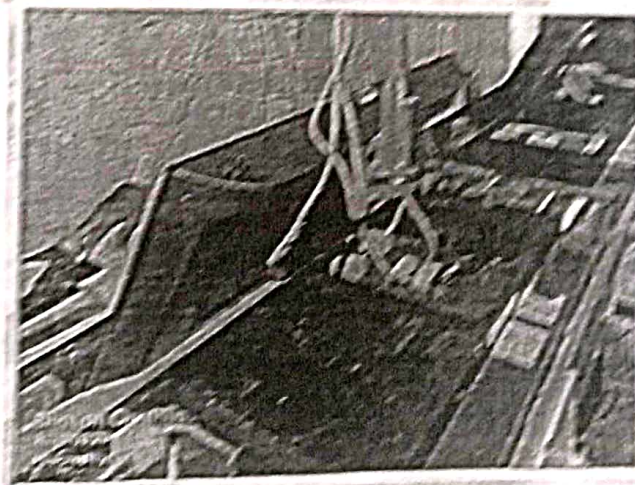


2) Assembling of speaker, PCB, motor board at input stage.





(iii) Aging section in the shed having high electricity.



(iv) Testing of TV panel in case of any damages like bolts, screws, bolts and valves.



## EVALUATION



## Internal & External Evaluation for Semester Internship

### Objectives:

- Explore career alternatives prior to graduation.
- To assess interests and abilities in the field of study.
- To develop communication, interpersonal and other critical skills in the future job.
- To acquire additional skills required for the world of work.
- To acquire employment contacts leading directly to a full-time job following graduation from college.

### Assessment Model:

- There shall be both internal evaluation and external evaluation
- The Faculty Guide assigned is in-charge of the learning activities of the students and for the comprehensive and continuous assessment of the students.
- The assessment is to be conducted for 200 marks. Internal Evaluation for 50 marks and External Evaluation for 150 marks
- The number of credits assigned is 12. Later the marks shall be converted into grades and grade points to include finally in the SGPA and CGPA.
- The weightings for Internal Evaluations shall be:
  - Activity Log 10 marks
  - Internship Evaluation 30 marks
  - Oral Presentation 10 marks
- The weightings for External Evaluations shall be:
  - Internship Evaluation 100 marks
  - Viva-Voce 50 marks
- The External Evaluation shall be conducted by an Evaluation Committee comprising of the Principal, Faculty Guide, Internal Expert and External Expert nominated by the affiliating University. The Evaluation Committee shall also consider the grading given by the Supervisor of the Intern Organization.
- Activity Log is the record of the day-to-day activities. The Activity Log is assessed on an individual basis, thus allowing for individual members within group to be assessed this way. The assessment will take into consideration



the individual student's involvement in the assigned work.

While evaluating the student's Activity Log, the following shall be considered -

- a. The individual student's effort and commitment.
- b. The originality and quality of the work produced by the individual student.
- c. The student's integration and co-operation with the work assigned.
- d. The completeness of the Activity Log.

The Internship Evaluation shall include the following components and based on Weekly Reports and Outcomes Description

- a. Description of the Work Environment.
- b. Real Time Technical Skills acquired.
- c. Managerial Skills acquired.
- d. Improvement of Communication Skills.
- e. Team Dynamics
- f. Technological Developments recorded.

**MARKS STATEMENT**  
(To be used by the Examiners)



## INTERNALASSESSMENTSTATEMENT

Name Of the Student: R. NABENDRA

Programme of Study:

Year of Study: 2023-2024

Group: III BSC CMSCS)

Register No/H.T. No: 216030054018

Name of the College: Government Degree College, Rajanpet

University:

Yogi Vemana University, Kadapa.

| Sl.No | EvaluationCriterion  | Maximum Marks | Marks Awarded |
|-------|----------------------|---------------|---------------|
| 1.    | ActivityLog          | 10            | 10            |
| 2.    | InternshipEvaluation | 30            | 30            |
| 3.    | OralPresentation     | 10            | 10            |
|       | GRANDTOTAL           | 50            | 50            |

Date: 25-06-2024

Signature of the Faculty Guide



## EXTERNALASSESSMENTSTATEMENT

Name Of the Student: R. narendra

Programme of Study:

Year of Study: 2023-2024

Group: III BSC CMSCS

Register No/H.T. No: 216030054618

Name of the College: Government Degree College, Rajampet

University:

Yogi Vemana University, Kadapa

| Sl.No                        | EvaluationCriterion                                                 | Maximum Marks | Marks Awarded |
|------------------------------|---------------------------------------------------------------------|---------------|---------------|
| 1.                           | InternshipEvaluation                                                | 80            |               |
| 2.                           | For the grading giving by the Supervisor of the Intern Organization | 20            |               |
| 3.                           | Viva-Voce                                                           | 50            |               |
|                              | TOTAL                                                               | 150           |               |
| GRANDTOTAL(EXT.50M+INT.100M) |                                                                     | 200           |               |

SignatureoftheFacultyGuide



Signatureof the InternalExpert

SignatureoftheExternalExpert

SignatureofthePrincipalwithSeal





# **ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION**

**(A Statutory Body of the Government of Andhra Pradesh)**

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