

# Model Program Book



## SEMESTER INTERNSHIP

Designed & Developed by



**ANDHRA PRADESH**

PROGRAM BOOK FOR  
**SEMESTER INTERNSHIP**

Name of the Student: PARAPATI. LAKSHMANARAO

Name of the College: GOVERNMENT DEGREE COLLEGE (MEN)

Registration Number: 2022001053032

Period of Internship: 4 months From: 12/12/2022 To: 15/2/2023

Name & Address of the Intern Organization :

Andhra pradesh state disaster reponse and fire  
service department  
Near old bus stand  
Brikotkulam.

Dr. B. R. Ambedkar

**University**

YEAR

## **An Internship Report on**

Long term Internship - fire department:-

*(Title of the Semester Internship Program)*

*Submitted in accordance with the requirement for the degree of*

B-SC (MPE)

*Under the Faculty Guideship of*

B. Mohan rao

*(Name of the Faculty Guide)*

*Department of: physics*

GOVERNMENT DEGREE COLLEGE (MEN)

*(Name of the College)*

**Submitted by:**

PARAPATI LAKSHMANA RAO

*(Name of the Student)*

**Reg.No:** 2022001053032

*Department of* physics

GOVERNMENT DEGREE COLLEGE (MEN)

*(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

I, PARAPATI LAKSHMANARAO a student of long term internship  
Program, Reg. No. 2022001053032 of the Department of physics  
College do hereby declare that I have completed the mandatory internship  
from 9/12/2022 to 18/2/2023 in fire department (Name of  
the intern organization) under the Faculty Guideship of  
B. Mohan Rao (Name of the Faculty Guide), Department of  
physics, Government degree college (men)  
(Name of the College)

P. Lakshman Rao  
(Signature and Date)

## Official Certification

This is to certify that PARAPATI LAKSHMANA RAO (Name of the student) Reg. No. 2022001053032 has completed his/her Internship in fire station (Name of the Intern Organization) on semester internship (Title of the Internship) under my supervision as a part of partial fulfillment of the requirement for the Degree of physics in the Department of Government degree College (Name of the College).

This is accepted for evaluation.

  
(Signatory with Date and Seal)

### Endorsements

Faculty Guide

Head of the Department

Principal

## Certificate from Intern Organization

This is to certify that PARAPATI LAKSHMANARAO (Name of the intern)  
Reg. No 2022001053032 of Govt degree College (man) (Name of the  
College) underwent internship in Fire department (Name of the  
Intern Organization) from 9/12/2022 to 18/2/2023

The overall performance of the intern during his/her internship is found to be

Satisfactory (Satisfactory/Not Satisfactory).

  
Authorized Signatory with Date and Seal  
District Fire Officer  
A.P.S.D.R & Fire Services  
Fire Station Srikakulam

## CHAPTER 1: EXECUTIVE SUMMARY

The internship report shall have a brief 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.

Semister Internship in andhra pradesh state disaster response & fire services department. It is a four months semister internship program.

Learned detailed information about the organization, basic preventions that are taken when the fire accident happens, how to use fire extinguisher.

- \* classes of fire like class A, class B, class C etc.
- \* Detailed information about water tender.
- \* Importance of life jacket, tube.
- \* Knowledge about the cause and prevention of fire accidents.
- \* preventing measures about fire in our house
- \* preventing the A class fire is a ash.
- \* A class fires → wood, solid materials the which are caused like timber.
- \* B class caused by oil petrol, diesel, Kerosen.
- \* class C which are caused by as propane and butane.

## 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 to 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.

- A) Andhra Pradesh state disaster response & fire services department is with 175 fire station spreading length and breadth of the state, the department available 24/7 for all types of fire emergencies.
- B) All types of rescue activities like rail road accidents, drowning incident, building collapses, animal rescue attended by department.
- C) Department officials ensure fire prevention measure in various sectors.
- D) It is a state level disaster response & fire services department.
- E) Roles and responsibilities of the employees is to spread awareness about the prevention of fire accidents.
- F) It is a non-profitable organization works 24/7 for any emergency situations by AP government.
- G) future plans is to reduce the fire accidents.

### 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.

Activities done by the students in this internship program is to gain knowledge about fire, the cause & prevention of fire accidents, classes of fires, preventing measures, rescue services, safety and rescue methods by conducting various trainings and awareness programmes.

Working conditions in this organization is good and we learned more information about fire accidents, weekly work schedule is six days in a week and daily three hours of classes. Equipments used are water tender, ropes, life jacket, fire extinguisher etc.

This part could end by reflecting with many skills are acquired during the internship program. Learned many fire safety and rescue methods by conducting various training and awareness programmes. Types of fire extinguishers used in various fires caused by petrol wood, electric coil any material. Class are about the real fire incidents student occurred in our district. The part could reflects the student's awareness about fire and preventing measures about fire accidents. Part could end by reflecting on what kind of skill the interns acquired.

## ACTIVITY LOG FOR THE FIRST WEEK

| Day & Date | Brief description of the daily activity                         | Learning Outcome                          | Person In-Charge Signature                                                            |
|------------|-----------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | In this day I learned about the over view of the water tender   | water tender is used in control fires     |    |
| Day -2     | Types of water tender type A, type B, Type c                    | Types of water tender                     |    |
| Day -3     | A water tank is mounted on chassis capable carrying 4500 litres | Tank capacity is 4500 litres              |   |
| Day -4     | Lockers contain portable pump, ropes, cutters                   | equipments in the Lockers of water tender |  |
| Day -5     | Lockers contain hose reel, Hose reel, coupling                  | Hose of different length                  |  |
| Day -6     | Back mounted centrifugal Pump                                   | It is the most important pump             |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

In this week I learned about the detailed information about the organization and vision, mission and values of the organization roles and responsibilities of the employees in the organization fire prevention techniques and fire safety measures.

Detailed information about the water tender about the parts like water tank with a capacity of 4500 litres. lockers contain portable pump, ropes, cutters tools, foam containers which are used to control the fire. hose reels of length of 50 metres is used to attach two hose reel - a ladder is mounted on the top of the water tender with a length of 50 feet back mounted centrifugal pump it used to give a force to the water. It works on the engines of the water tender. pump works with the pressure to the water.

## ACTIVITY LOG FOR THE SECOND WEEK

| Day & Date | Brief description of the daily activity                                 | Learning Outcome                                             | Person In-Charge Signature                                                            |
|------------|-------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | classes about the role of a fire fighter                                | A fire fighter is a first responder trained in fire fighting |    |
| Day - 2    | Duties of a fire fighter                                                | fire suppression                                             |    |
| Day - 3    | A fire starts due to the presence of three elements fuel, oxygen & heat | This is often referred to as the fire triangle               |   |
| Day - 4    | structure fire fighting it may be attacked with interior or exterior    | wild land fire fighting                                      |  |
| Day - 5    | Aircraft rescue and fire fighting                                       | Airports employ specialist fire fighters in emergency.       |  |
| Day - 6    | Rescue                                                                  | fire fighters rescue person from a dangerous situation.      |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

fire fighter or fire fighter is a first responder trained in fire fighting, primarily to control and extinguish fires that threaten life and property, as well as to rescue persons from confinement situations.

A fire burns due to the presence of three elements fuel, oxygen and heat this is after referred to as the fire tetrahedron if a fourth element is added a chemical chain reaction which can help sustain certain types of fire.

structure fires may be attacked with either interior or exterior resources, or both interior crews, using the "two in, two out" rule, may extend fire hose lines inside the building, find the fire and cool it with water.

Airports employ specialist firefighters to deal with potential ground emergencies. due to the mass connectivity potential of an emergency, the speed with which emergency response equipment.

### ACTIVITY LOG FOR THE THIRD WEEK

| Day & Date | Brief description of the daily activity                       | Learning Outcome                                | Person In-Charge Signature                                                            |
|------------|---------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | I learned information about the classes of fire               | classes of fires.                               |    |
| Day -2     | class A<br>These are fire that involve solid materials        | solid materials like paper, wood (or) textiles. |    |
| Day -3     | class B.<br>These are fires that involve liquids              | oils, petrol, (or) diesel.                      |   |
| Day -4     | class C<br>These are fires that involve flammable gases       | Propane, butane (or) methane                    |  |
| Day -5     | class D<br>These are fires that involve metals                | Aluminium magnesium                             |  |
| Day -6     | class E<br>These are fires that involve electrical equipments | electrical equipment like computers wires.      |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Importance of fire extinguisher understanding fire extinguisher types and classes. There are four classes of fire extinguisher A, B, C and D - and each class can put out different type of fire.

Class A extinguishers will put out fires in ordinary combustibles including wood, cloth, rubber, paper, as well as many plastic materials.

Class B extinguishers are for use on flammable liquid like grease, gasoline, solvents, or alcohol oils and other similar substance.

Class C extinguishers are suitable for use only on electrically energized equipment fires.

Class D extinguishers are designed for use on flammable metallic substance can be used on different types of fires and will be labeled with more than one class. Find the class label of most fire extinguishers in a set.

### ACTIVITY LOG FOR THE FORTH WEEK

| Day & Date | Brief description of the daily activity                          | Learning Outcome                           | Person In-Charge Signature                                                            |
|------------|------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | Importance of fire extinguishers.                                | fire extinguishers                         |    |
| Day - 2    | Types of fire extinguishers                                      | There are four types of fire extinguishers |    |
| Day - 3    | Class A extinguishers will put out fire in ordinary combustibles | examples are wood, cloth, rubber, paper    |  |
| Day - 4    | Class B extinguishers are for use on flammable liquids           | grease, gasoline, solvents, lacquers       |  |
| Day - 5    | Class C extinguishers are suitable for use only on electricals   | electrical equipments like wires.          |  |
| Day - 6    | Class D extinguishers are designed for use on flammable metallic | Potassium & sodium.                        |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Importance of fire extinguisher understanding fire extinguisher types and classes. There are four classes of fire extinguishers A, B, C and D and each class can put out a different type of fire.

Class A extinguishers will put out fires in ordinary combustibles including wood, cloth, rubber, paper, as well as many plastic materials.

Class B - extinguishers are for use on flammable liquids like grease, gasoline, solvents, alcohol, oils and other similar substance.

Class C extinguishers are suitable for use only on electrically energized equipment fires.

Class D extinguishers like potassium and sodium multipurpose extinguishers can be used on different types of fire and will be labeled with more than one class, find the class label of most fire extinguisher in a set.

### ACTIVITY LOG FOR THE FIFTH WEEK

| Day & Date | Brief description of the daily activity                          | Learning Outcome                              | Person In-Charge Signature                                                            |
|------------|------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | Importance of life saving Appliances                             | life saving appliances                        |    |
| Day -2     | life buoys and life-jackets                                      | life-jackets are used to save lives in water  |    |
| Day -3     | Immersion suits, anti-exposure suits and thermal protective aids | Immersion suits are used to float in water    |   |
| Day -4     | Importance and use of life boats                                 | life boats are used to save a group of people |  |
| Day -5     | life-rafts are used to rescue a person in a stream               | life-rafts are used to rescue a person        |  |
| Day -6     | General emergency alarm system                                   | alarm which alerts the person in an emergency |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Importance of life saving appliances life-saving appliances are those appliances that protect human life at sea. The devices are documented as part of the international Convention for the Safety of life at sea, (SOLAS Convention) in the SOLAS Convention and other maritime related standards. The safety of human life is paramount. Ships and other watercraft carry life saving appliances including life boats, life buoys, life jackets, life raft and many others. Passengers and crew are informed of their availability in case of emergency. Life saving appliances are mandated as per chapters of the life saving appliances.

Life buoys and life-jackets

Immersion suits, anti-exposure suits and Thermal protective aids.

Life boats, life-rafts

Rescue boats

General emergency alarm system.

## ACTIVITY LOG FOR THE SIXTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome                                           | Person In-Charge Signature                                                            |
|------------|-----------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | Importance of fire alarm system         | A fire alarm system warns people when smoke.               |    |
| Day - 2    | Types of fire alarm system              | There are four types of fire alarms                        |    |
| Day - 3    | fire detectors are heat fire detectors  | It is the most important fire detector                     |   |
| Day - 4    | optical fire detectors (ionisation)     | These detectors are effective at detecting larger smoke    |  |
| Day - 5    | Photoelectric fire detector             | They are designed to be sensitive to a wide range of fires |  |
| Day - 6    | Ionisation/ photoelectric fire detector | The use of a multi-sensor technology.                      |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Importance of fire alarm system, there are four types of fire detectors are heat, optical (ionisation), photoelectric and ionisation/ photoelectric the differences in each of these are how they detect fires, heat being from temperature and the other three being from smoke the best detectors is the combination ionisation.

Heat detectors : These can detect an increase in temperature and are insensitive to smoke heat detectors detect the presence of heat and an increase in air temperature.

optical alarms : These detectors are effective at detecting large particles of smoke from slow-burning smouldering fires. they are extremely reliable and produce few false alarms.

Ionisation : They are designed to a wide range of fires and provide a fast reaction to both fast flaming and slow smouldering fires.

Smoke alarms : These detectors are excellent at detecting fast burning fires. These are the cheapest and cost very little to purchase.

## ACTIVITY LOG FOR THE SEVEN WEEK

| Day & Date | Brief description of the daily activity                                     | Learning Outcome                                           | Person In-Charge Signature                                                            |
|------------|-----------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | Importance of fire proximity suit                                           | It is designed to protect a fire fighter.                  |    |
| Day -2     | There are three types of fire proximity suits                               | types of proximity suits                                   |    |
| Day -3     | Approach suit                                                               | It is used to work in the general area of high temperature |   |
| Day -4     | proximity suit                                                              | It is used for aircraft rescue and fire fighting           |  |
| Day -5     | Entry suit                                                                  | It is used for entry into extreme heat situation           |  |
| Day -6     | Aluminized jacket and pants complete with vapours barrier insulated lining. | Aluminized lined glass                                     |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Importance of fire proximity suit a fire proximity suit is a designed to protect a fire fighter (or) volcanologist from extremely high temperature. They were first designed and used in the 1930s originally made of asbestos fabric, current models use vacuum deposited aluminized materials.

These are three basic types of these aluminized suits

Approach suit: It is used for work in the general area of higher temperature such as steel mills and smelting facilities.

Proximity suit: It is used for aircraft rescue and fire fighting (AR-FF) and in more heavily insulated versions for kiln work requiring entry into the heated kiln.

Entry suit: It is used for entry into extreme heat and situations requiring protection from total flame engulfment most commonly made of Zetex (Kevlar) Vemiculite and not aluminized. These, provide ambient protection.

## ACTIVITY LOG FOR THE EIGHTH WEEK

| Day & Date | Brief description of the daily activity                    | Learning Outcome                                 | Person In-Charge Signature                                                            |
|------------|------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | topics about fire crackers disadvantages, noise pollution. | Disadvantages of fire crackers                   |    |
| Day -2     | fire crackers making ingredients and harmful chemicals     | chemical like flash powder cordite, black powder |    |
| Day -3     | Environment friendly crackers.                             | eco-friendly fire crackers in India              |  |
| Day -4     | usage of fire crackers in different countries              | usage of fire crackers in Australia, Canada      |  |
| Day -5     | usage of fire crackers in India.                           | National green tribunal (NGT)                    |  |
| Day -6     | problems occurring from fire crackers                      | noise pollution air pollution.                   |  |

## WEEKLY REPORT

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

### Objective of the Activity Done:

### Detailed Report:

Topic about fire crackers a fire cracker is a small explosive device primarily designed to produce a large amount of noise, especially in the form of a loud bang, usually for celebration of festivity in the year.

Ingredients that are used in the fire cracker are generally made of cardboard (C) plastic, with flash powder Cordite, smokeless powder, black powder as the propellant. This is not always the case, however anything from match heads to Kerosene and lighter fluid has been used successfully in making fire crackers.

Green (G) environment friendly fire crackers:- after India's national green tribunal (NGT) enacted a ban on the sale and use of crackers on diwali festival in 2020, the Council for Scientific and Industrial Research (CSIR) developed green crackers made from cleaner raw materials which reduces emissions by suppressing the production of dust. Their emissions are 30% more than 160 decibels.

## ACTIVITY LOG FOR THE NINTH WEEK

| Day & Date | Brief description of the daily activity                  | Learning Outcome                                       | Person In-Charge Signature                                                            |
|------------|----------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | fire prevention goal of fire prevention reduce from fire | fire prevention is a function of many fire departments |    |
| Day -2     | fire prevention in emergency situation                   | It is a preventive method of emergencies.              |    |
| Day -3     | fire prevention education awareness                      | awareness in the form of lessons pamphlets             |   |
| Day -4     | Smoke detector installation and maintenance              | Smoke detectors generally make fire alarms             |  |
| Day -5     | wet pipe sprinkler systems                               | It is a automatic sprinkler system in supply water     |  |
| Day -6     | fire fighters are here to help                           | One of the most critical jobs of a fire fighting       |  |

## WEEKLY REPORT

WEEK - 9 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

Fire prevention fire is a function of many fire departments the goal of fire prevention is to educate the public on the precautions which should be taken to prevent potentially harmful fires and how to survive these fire if they do occur. It is a proactive method of preventing fire-based emergencies and reducing the damage caused by them.

In the general sense of preventing harmful fires, many aspects are discussed in the articles fire protection and fire safety. In the united states national work on best practices is in the vision 2020 programs. Smoke detector installation and maintenance: generally taught more to adults a core part of fire prevention outreach involves encouraging people to ensure that they are encouraging people to replace batteries promptly instead of just removing them to make the beeping stop.

## ACTIVITY LOG FOR THE TENTH WEEK

| Day & Date | Brief description of the daily activity                          | Learning Outcome                                    | Person In-Charge Signature                                                            |
|------------|------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | Disaster response is the second phase of the disaster management | providing immediate assistance to maintain life     |    |
| Day -2     | Disaster response technologies                                   | communications service supports federal, state      |    |
| Day -3     | emergency power system like electricity                          | electrical system on loss of normal supply          |  |
| Day -4     | Transportation                                                   | The transportation infrastructure is most important |  |
| Day -5     | waste management solid waste management                          | waste management facilities are depended            |  |
| Day -6     | Emergency accommodation                                          | Temporary accommodation for people                  |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Disaster response is the second phase of the disaster management cycle. It consists of a number of elements for example: warning / evacuation search and rescue providing assistance and the reconstruction (d) construction of infrastructure.

Communication: The Government emergency telecommunication service supports federal, state, local and tribal government organization during a crisis (d) emergency by providing emergency access to national wireless priority service.

Electricity: Emergency power system, such as mobile microgeneration unit, mobile charging and power supply - stations (d) specially designed (x) extended.

Transportation: The transportation infrastructure may have become unusable due to a disaster. Complicating logistics, evacuation and disaster response.

Waste management: Disaster waste is often managed in an organized system. The waste generated by a disaster existing solid waste.

## ACTIVITY LOG FOR THE ELEVENTH WEEK

| Day & Date | Brief description of the daily activity                                    | Learning Outcome                                                 | Person In-Charge Signature                                                            |
|------------|----------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | use of fire in war<br>Early thermal weapons                                | The use of fire in warfare has a long history                    |    |
| Day - 2    | productive use for energy burning fuels                                    | burning fuel<br>Convert, chemical energy into heat energy        |    |
| Day - 3    | fire management controlling a fire to optimize its size, shape & intensity | They include knowledge of which fuel to burn.                    |   |
| Day - 4    | protection and prevention.                                                 | wild fire prevention programs around the world may employ        |  |
| Day - 5    | combustion (or) burning                                                    | combustion does not always result in fire                        |  |
| Day - 6    | liquid fuels combustion of a liquid fuel in an atmosphere                  | liquid will normally catch fire only above a certain temperature |  |

## WEEKLY REPORT

WEEK - 11 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

use of fire in man fire is the rapid oxidation of a material in the exothermic chemical process of combustion, releasing heat, light and various reaction products. fire is most common form can result in conflagration which has the potential to cause physical damage through burning. fire is an important process it affects ecological system around the globe. The positive effects of fire include stimulating growth and maintaining various ecological systems.

The ability to control fire was a dramatic change in the habits of early humans making fire to generate heat and light made it possible for people to cook food, simultaneously increasing the variety and availability of nutrients and reducing disease by killing pathogenic microorganisms in the food.

: There are numerous modern applications of fire. in its broadest sense, fire is used nearly every human being on earth every day.

## ACTIVITY LOG FOR THE TWELVETH WEEK

| Day & Date | Brief description of the daily activity                                  | Learning Outcome                                               | Person In-Charge Signature                                                            |
|------------|--------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day - 1    | fire Safety elements of fire safety policy                               | fire Safety policy apply at the construction                   |    |
| Day - 2    | Common fire hazards Kitchenfire, electrical System, combustible          | electrical system that are over loaded poorly maintained       |    |
| Day - 3    | combustible storage, area with insufficient protection.                  | candles and other open flames                                  |   |
| Day - 4    | fire code<br>A typical fire safety code included administrative sections | List of some typical fire and explosion.                       |  |
| Day - 5    | public safety education.                                                 | fire prevention programs may include smoke detectors.          |  |
| Day - 6    | fire educator qualification                                              | fire safety has been highlighted in relation chain management. |  |

## WEEKLY REPORT

WEEK - 12 (From Dt..... to Dt.....)

### Objective of the Activity Done:

### Detailed Report:

Fire safety is the set of practices intended to reduce destruction caused by fire. Fire safety measures includes those are intended to prevent the ignition of an uncontrolled fire and those that are used to limit the spread and impact of a fire.

Fire safety policies apply at the construction of a building and throughout its operating life building codes are enacted by local sub-national (a) national governments to ensure such features as adequate fire exits, signage, and construction details such as fire stops and fire rated doors, window and walls fire safety is also in objective of electrical codes to prevent overloading of wiring (ii) equipments and to protect from ignition by electrical faults.

: fire prevention programs may include distribution of smoke declare, using schools to review key topics with the students and implementing

## ACTIVITY LOG FOR THE THIRTEENTH WEEK

| Day & Date | Brief description of the daily activity   | Learning Outcome                                                   | Person In-Charge Signature                                                            |
|------------|-------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | classes about tropical cyclones in india  | indian ocean that is the most vulnerable                           |    |
| Day -2     | The four stage warning in indian cyclones | on average 2-3 tropical cyclones in the make land fall in india    |    |
| Day -3     | cyclone watch                             | It is issued 72 hours in advance. it discuses                      |  |
| Day -4     | Cyclone Alert                             | Issued 48 hours in advance of the commencement in coastal areas    |  |
| Day -5     | cyclone warning                           | Issued 24 hours in advance of the commencement of adverse weather  |  |
| Day -6     | land-fall outlook                         | Issued 12 hours in advance of the commencement of adverse weather. |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

Tropical cyclones in India is a country in the north of Indian Ocean that is the most vulnerable to getting hit by tropical cyclones in the basin. From the east (&) from the west on average, 2-3 tropical cyclones make landfall in India each year, with about one being a severe tropical cyclone (&) greater.

Cyclone watch is issued 72 hours in advance, it discuss the likelihood of development of a cyclonic disturbance in the north Indian Ocean.

Issued 48 hours in advance of the commencement of adverse weather over the coastal area.

Issued one hours in advance of the commencement of adverse weather over the coastal areas the location of landfall is discussed at this stage.

Issued 12 hours in advance of the commencement of adverse 12 hours in advance of the coastal areas, the track of the cyclone, the time of landfall and the possible impact inland is discussed at this stage.

# ACTIVITY LOG FOR THE FOURTEENTH WEEK

| Day & Date | Brief description of the daily activity          | Learning Outcome                                        | Person In-Charge Signature                                                            |
|------------|--------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | Physical properties of fire                      | chemistry, flame are the physical properties of fire.   |    |
| Day -2     | chemistry fire is a chemical process             | It is an oxidizing agent react yielding carbon dioxide. |    |
| Day -3     | fire can be caused by oxygen, heat, fuel         | fire can be extinguished by removing fire tetrahedron   |   |
| Day -4     | flame<br>A flame is a mixture of reacting gases. | This light has a continuous spectrum hydrogen burning   |  |
| Day -5     | Typical adiabatic temperatures                   | The adiabatic flame temperature of a given fuel         |  |
| Day -6     | fire science & ecology.                          | Every natural ecosystem on land.                        |  |

## WEEKLY REPORT

WEEK - 14 (From Dt..... to Dt.....)

Objective of the Activity Done:

Detailed Report:

physical properties of fire is a chemical process in which a fuel and an oxidizing agent react, yielding carbon dioxide and water. This process, known as a combustion reaction, does not proceed directly and involves agents. Fire can be extinguished by removing any one of the elements of the fire tetrahedron.

turning off the gas supply, which removes the fuel source.

Covering the flame completely, which smothers the flame as the combustion both uses the available oxidizer and displaces it from the area around the flame with  $\text{CO}_2$ .

Application of water, which removes heat from the fire faster than the fire can produce it.

Application of a retardant chemical such as halon to the flame, which outwards the chemical reaction itself until the rate of combustion is too slow to maintain the chain reaction.

# ACTIVITY LOG FOR THE FIFTEENTH WEEK

| Day & Date | Brief description of the daily activity | Learning Outcome                                                                                    | Person In-Charge Signature                                                            |
|------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Day -1     | Thumb knot                              | There are a number of ways to tie the overhand knot.                                                |    |
| Day -2     | chain knot<br>Reef knot                 | A fireman's chain knot man-o-war sheepshank, double fool's harness & shaw special                   |    |
| Day -3     | sheep knot<br>cat spaw                  | A shank is a type of knot that is used to shorten a rope or take up slack, such as sheepshank knot. |   |
| Day -4     | Half hitch                              | Double sheet bend.                                                                                  |  |
| Day -5     | clove Hitch                             | Running bowline                                                                                     |  |
| Day -6     | Timber hitch                            | midship man's hitch                                                                                 |  |

## WEEKLY REPORT

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

Objective of the Activity Done:

Detailed Report:

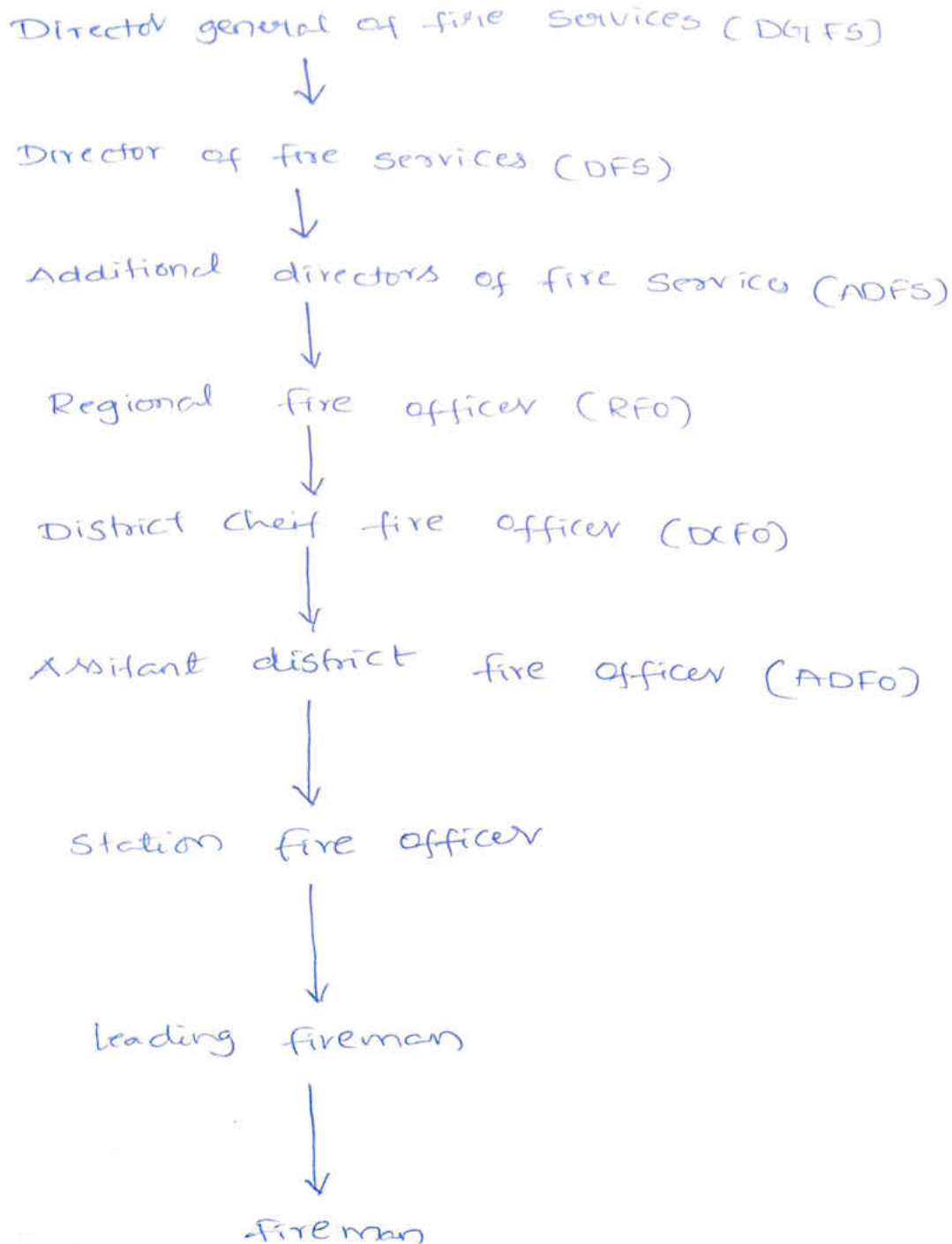
Thumb knot is a number of ways to tie the over hand knot. Chair knot a fireman's chair knot man-e-war sheep knot shark, double fool's harness & Shaw special. Sheep knot A shark is a type of knot that is used to shorten a rope or take up slack, such as sheep shark knot. half hitch - double sheet bend. clove hitch - running bowline, timber hitch midship man's hitch, roving hitch - bowline on the right, slippery hitch, draw hitch, bow line, round turn two half hitch, black wall hitch, waterman's hitch, waterman's hitch, fishmer's bend carick bend, single sheet bend.

- × methylenescapitee smell LPG gas state.
  - × Gases present in LPG gas butane, propane.
  - × Global gas present in gas - methane
- City - Guntur

## CHAPTER 5: OUTCOMES DESCRIPTION

**Describe the work environment you have experienced** (in terms of people interactions, facilities available and maintenance, clarity of job roles, protocols, procedures, processes, discipline, time management, harmonious relationships, socialization, mutual support and teamwork, motivation, space and ventilation, etc.)

clarity of job roles:-



**Describe the managerial skills you have acquired** (in terms of planning, leadership, team work, behaviour, workmanship, productive use of time, weekly improvement in competencies, goal setting, decision making, performance analysis, etc.

### Workmanship:-

- \* workmanship is a human attribute relating to Knowledge and skill at performing a task.
- \* pride of workmanship is The gratifying sense of having done good work.
- \* batteries unless failure has occurred due to a defect in materials (of) workmanship

### Leadership:-

- \* Leadership both as a research area and as a practical skill encompasses The ability of individual, group or organization.
- \* Team work framework <sup>of</sup> a team which is a group of interdependent individuals who work together towards a common goal.
- \* Behavior consists of how the consumer's emotions, attitudes, and preferences affect buying behaviour.
- \* Goal Setting involves the development of an action plan designed in order to motivate and guide.
- \* In sports, a goal celebration is The practice of celebrating the Scoring of goal.
- \* The celebration is normally performed by The goal scorer and may involve.

**Describe how you could improve your communication skills** (in terms of improvement in oral communication, written communication, conversational abilities, confidence levels while communicating, anxiety management, understanding others, getting understood by others, extempore speech, ability to articulate the key points, closing the conversation, maintaining niceties and protocols, greeting, thanking and appreciating others, etc.)

- \* Conversational abilities require a knowledge competence if remained very long and has realization remained highly.
- \* Conversation implicature, that gets status is open, because otherwise his utterance would not be relevant in the context.
- \* Anxiety is an emotion which is characterized by an unpleasant state of inner turmoil and includes feeling of dread over anticipated events.
- \* Self awareness, understanding theory of mind (or understanding others).
- \* generations center on western ideas and lacks a broader cultural understanding. Other argue that theory of generations should be global in scope.
- \* greetings entertained and now separately owned as a media entertainment.
- \* Christmas greetings, by the late 19th century, with the season greetings.
- \* special greetings in the ancient and modern languages.

## Student Self Evaluation of the Short-Term Internship

Student Name: PARAPATI LAKSHMANA RAO Registration No: 2022001053032

Term of Internship: From: 9/12/2022 To: 18/02/2023

Date of Evaluation:

Organization Name & Address: AP state disaster response and fire  
service department.

Please rate your performance in the following areas:

Rating Scale: Letter grade of CGPA calculation to be provided

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

Date:

P. Lakshmana Rao  
Signature of the Student

Evaluation by the Supervisor of the Intern Organization

Student Name: PARAPATI LAKSHMANA RAO

Registration No: 2022061053632

Term of Internship:

From: 9/12/2022

To: 18/02/2023

Date of Evaluation:

Organization Name & Address: AP state disaster response and fire  
service department.

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:

*M. Parapathi*  
Signature of the Supervisor  
A.P.S.D.R & Fire Service  
Fire Station, Chikaballapur

## **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 Evaluation shall be:
  - Activity Log 10 marks
  - Internship Evaluation 30 marks
  - Oral Presentation 10 marks
- The weightings for External Evaluation 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 groups 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.

## INTERNAL ASSESSMENT STATEMENT

Name Of the Student: PARAPATI LAKSHMANA RAO

Programme of Study: B.Sc

Year of Study: 2021-23

Group: B.Sc (mpc)

Register No/H.T. No: 2022001053032

Name of the College: Government degree college (men)

University: Dr. B R A UNIVERSITY

| Sl.No | Evaluation Criterion  | Maximum Marks | Marks Awarded |
|-------|-----------------------|---------------|---------------|
| 1.    | Activity Log          | 10            | 9             |
| 2.    | Internship Evaluation | 30            | 28            |
| 3.    | Oral Presentation     | 10            | 9             |
|       | GRAND TOTAL           | 50            | 46            |

Date:

  
Signature of the Faculty Guide

## EXTERNAL ASSESSMENT STATEMENT

Name Of the Student: PARAPATI LAKSHMANA RAO

Programme of Study:

Year of Study:

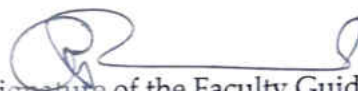
Group: B.Sc (MPC)

Register No/H.T. No: 2022CC1053032

Name of the College: Government degree College (men)

University:

| Sl.No                               | Evaluation Criterion                                                | Maximum Marks | Marks Awarded |
|-------------------------------------|---------------------------------------------------------------------|---------------|---------------|
| 1.                                  | Internship Evaluation                                               | 80            | 75            |
| 2.                                  | For the grading giving by the Supervisor of the Intern Organization | 20            | 15            |
| 3.                                  | Viva-Voce                                                           | 50            |               |
|                                     | TOTAL                                                               | 150           |               |
| GRAND TOTAL (EXT. 50 M + INT. 100M) |                                                                     | 200           |               |

  
Signature of the Faculty Guide

Signature of the Internal Expert

  
18/3/23

Signature of the External Expert

Signature of the Principal with Seal