

Model Program Book



SEMESTERINTERNSHIP

Designed & Developed by



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

PROGRAMBOOKFOR

SEMESTERINTERNSHIP

Name of the Student : Yemijala Madhu Shalini

Name of the College : Sir C R Reddy College for Women

Registration no : 203307137428

Period of internship: From : 01-04-2023 To : 15-07-2023

Name & Address of the intern organization : sampath info pvt Ltd sai nagar,

Chodimella, Eluru -534002.

University
Year

An Internship Report on

Automatic smoke detector alarm MQ-135 smoke sensor and Arduino

(Title of the Semester Internship Program)

Submitted in accordance with the requirement for the degree of
B.sc Electronics

Under the Faculty Guideship of

K. Jyothsna mam

(Name of the faculty Guide)

Department of
Electronics

(Name of the College)

Sir C R Reddy college for women

Submitted by

Yemijala Madhu Shalini

(Name of the Student)

Reg.No:203307137428

Department of Electronics

Sir C R Reddy college for women

(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 where ever 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 actions 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, Yemijala Madhu Shalini a student of Long term Internship Program, Reg. No. 203307137428 of the Department of Electronics College do hereby declare that I have completed the mandatory internship from 01-04-2023 to 15-07-2023 in Sampath Info Pvt Ltd under the Faculty Guideship of K.Jyothsna Mam, Department of Electronics
Sri C R R College For Women (Name Of The College)

Y.MadhuShalini 15/7/23
(Signature and Date)

Certificate from Intern Organization

This is to certify that Yemijala Madhu Shalini (Name of the intern) Reg. No 203307137428 of Sir C R R College For Women (Name of the College) underwent internship in Sampath Info Pvt Ltd (Name of the Intern Organization) from 01-04-2023 to 15-07-2023

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

For **SAMPATH INFO PVT. LTD.**
Authorized Signatory with Date and Seal

D. Anil Kumar
Director
15/07/23

Acknowledgements

It is inevitable that thoughts and ideas of other people drift into the subconsciousness when one feels to give acknowledgement for the help given by others.

I'm very much grateful to Smt. P. Sailaja principal SIR C.R. REDDY COLLEGE FOR WOMEN their blessings and encouragement through my course of internship. I express my gratitude to Smt. S. Anuradha madam vice principal SIR C. R. REDDY COLLEGE FOR WOMEN for her blessing and encouragement throughout my course of internship.

It is my pleasure to express my sincere gratitude and thanks to Ms. K. Jyothsna madam head of the department of management studies and all the other features of department of management studies for their encouragement and continuous support.

We would like to express our gratitude towards our internship guide Ms. K. Jothsna madam and Ms. JYOSHNA madam lecture in electronics for supporting us till the end of our project.

I extent my sincere thanks to Ms. Sri devi internship in charge for internet of things IOT for her support and valuable advice during my course of internship Ms. Y. Sridevi mam and Ms. Jyoshna mam.

It is my immense pleasure to express my gratitude and thanks to Ms. Jyoshna mam and internship in charge for their guidance and support.

I would like to express my special gratitude Mr. D. Anil Kumar the director Ms. Deepti kiranmayi, technical trainer for IOT from the company of Sampath info private limited Eluru for their internship guidance help throughout the period of internship. It is my duty to convey sincere

thanks and regards to my parents, family members friends and people who have support me throughout the course internship. Behind every achievement lies on unfathomable sea of gratitude to those who activate it without whom if could ever have been in existence to them we lay the words of gratitude imprinted with us.

I perceive this opportunity as a big mite store in my career development. I will strive to use gained skills and knowledge the best possible way.

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CHAPTER1: 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.

Understanding the basic concept of computation thinking and programming

- Be familiar with Arduino hardware and interface know that Arduino
- Identity the reason why Arduino is commonly used
- Identity and understand the hardware needed in creating Arduino

Learning Objective:

- Get an idea of what IOT is
- Get an overview of the course
- Learn the very basic of python
- Learn the basics of python

Be able to write simple python programs to control a Rip's be able to document and present you work corporate professionalism [Treating tour Managers, colleagues and client with respect, projecting a positive attitude being polite, showing good judgement, being official] Communication and interpersonal skills in social work [How to communication effectively and good inter personality]

Outcomes achieved:

- Acquired knowledge on IOT, python and raspberry pi
- learned about sensor in IOT
- Learned about introduction to Arduino raspberry pi
- IOT hands on experience

- Completion of project with enhance prefinal technical and communication

Summary of all activities

- Interns completed their project IOT based on sensor of Arduino and raspberry pi
- Become familiar with the Automatic control system hardware components
- Setup the AEV software on the Arduino IDE
- Becoming familiar with uploading programs to the Arduino testing the programs and troubleshooting techniques
- Learned the best and advantages of IOT, Arduino, raspberry pi

CHAPTER2: 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. Introduction of the organization: Established in 2017 “SAMPTHINFO PVT LTD” is the pioneer and premiere division on advanced technologies like big Data analytics, Data science, AWS, IOT, Robotics and salesforce in Eluru, we have prominent name in the fields of offline and online training a web solutions SAMPTHINFO PVT LTD has been associated with a number of engineering and degree colleges for job-oriented training and student career programs. We have a team with well experienced and certify Trainer’s developer’s and programmers who evaluated the potential’s and interested of the student and accordingly customized servicer.

B. Vision, Mission, and values of the organization

Our vision: To become the qualitative learning ecosystem for computer literacy, in partnership with academic’s and cooperate clients.

Our Mission: To create a learning platform for students & working professional who wish to pursue technical training by attend instructor-LED online/classroom courses, using team of industry XY trainers we aim to up skills participate with

the advanced skills to their professional life to the form beginners to except level.

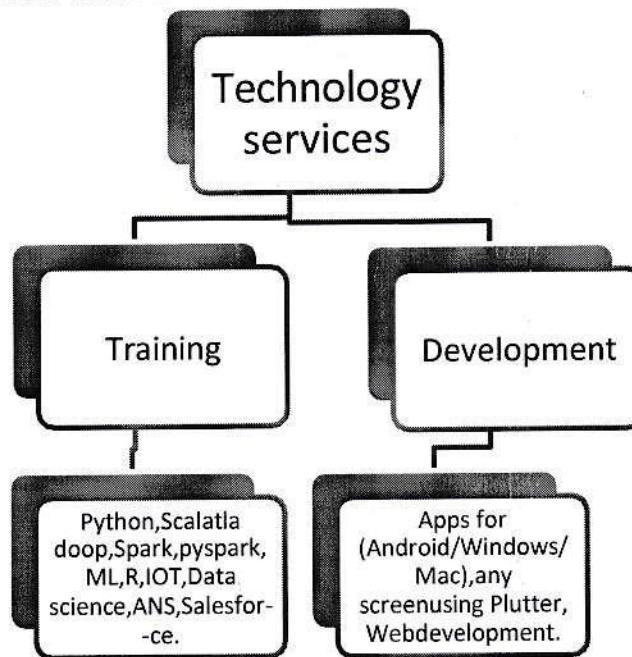
Future plans: We are striving to be best and ongoing according the technology trends our future plans are to move into development.

With structure where we can provide opportunities to people along with world class computer literacy

C. Policy:

We at Sampath info Pvt limited want to make your learning Experience satisfying. We respect your privacy by is to deliver best content to learner.

D. Organizational structure:



E. Roles and Responsibilities of the employee in which the intern is placed:

- Giving practical experience and techno functional knowledge on intern projects.
- Completing the assigned projects of intern

CHAPTER3: 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.

working conditions

Inter having classroom training Internet of things technology. Interns also having the daily 2-3 hours hands on experience in the lab sessions regarding their project weekly work schedule

week-1: Introduction to IoT, basic blinking LED

week-2: basic schematic smart lights

week-3: Introduction LM35 & Basic multiple Blinking LED

week-4: LED Blinking using raspberry pi

week-5: Basic implementing on obstacle sensor using IR sensor

week-6: IR sensor using raspberry pi

week-7: Basic "KNIGHT RIDER" using for loop

week-8: Revision on experiment simulating

week-9: Practical Evaluation

week-10: Review of previous Experiments

week-11: started designing ppts of the project

week-12: Revision on the project circuit connections

week-13: Revision on the abstract circuit connections

week-14: Document preparation

week-15: PPT preparation

System Retirements:

- 1) System: Pc/laptop
- 2) Operating system: windows 10/11 or Linux
- 3) Internet connection

Task performed:

- 1) Interns completed their project Internet of thing IOT
- 2) Learned the best and advantages of Internet of things
- 3) Successfully deployed project in IOT.

ACTIVITY LOG FOR THE FIRST WEEK

Day& Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
1-04-2023 Day-1	Introduction to IOT History of IOT, how to IOT works.	Identify the components that forms Part of IOT architecture	K. Jayalakshmi
3-04-2023 Day-2	Applications of IOT introduction to Micro Controller, Arduino Mega 2560, Raspberry.	Determine the most appropriate IOT devices & Sensors based on case studies.	K. Jayalakshmi
4-04-2023 Day-3	IOT development tools, Arduino installation, introduction Arduino software, include basic explanation of Arduino.	Setup the connections between the devices and sensors.	K. Jayalakshmi
5-04-2023 Day-4	Different sensor's introduction (LDR, LM35, IR receiver, Ultrasonic sensor, flame sensor, PIR motion sensor, Laser module buzzer).	Evaluate the appropriate Protocol for communication between IOT.	K. Jayalakshmi
6-04-2023 Day-5	Working principle of software started working on first experiment BLINKING ANDLEDONARDUNIOM EGA Explanation of code use for experiment.	Working on blinking an LED, the HELLO WORLD of micro-Controller.	K. Jayalakshmi
7-04-2023 Day-6	Learn about the use of analog Output through digital pin Wit experiment FADING AN LED ARDUINO MEGA Explanation of code used for experiment.	Finally, experiments are working and it can success in IOT devices.	K. Jayalakshmi

WEEKLY REPORT

WEEK-1(From Dt 1-04-2023 to Dt 7-04-2023)

Objective of the Activity Done: Introduction to IoT, Basic Blinking LED

Detailed Report:

As an IOT intern during my first week, I have learned about IOT, working, applications of IOT. Introduction to Micro Controller Arduino Mega 2560, Raspberry pi, various IOT development tools Arduino installation From Arduino website, introduction to Arduino software Basic explanation of Arduino code different sensor introduction like (LDR, LM35, IR receiver, ultrasonic sensor, flame sensor, PIR motion sensor, Laser module, buzzer). I have understood the use and importance of IoT Latest analog output can be retrieved from digital pin through PWM Infading experiment. Learn functionality of Arduino through basic blinking experiment.

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
8-04-2023 Day-1	Introduction to Micro controller and Applications.	I have learned introduction to Microcontroller and applications.	K. Jayshree
10-04-2023 Day-2	Explanation on Fetch the micro-Controller response and output Control on serial monitor one or two.	I have learned explanation on fetch the microcontroller Response and output control on serial monitor one or two.	K. Jayshree
11-04-2023 Day-3	Practical session on fetch the micro controller response and output controller On serial monitor one or two and code explanation.	Hands on experience by doing the experiment.	K. Jayshree
12-04-2023 Day-4	Introduction to LED and LDR, working principle of LDR and LED, and its applications.	I have learned introduction to LED and LDR working Principle of LED and LDR and its applications.	K. Jayshree
13-04-2023 Day-5	Explanation on simulating smart lights using LDR, LED with Arduino.	Determined the explanation on simulating smart lights using LDR, LED with Arduino.	K. Jayshree
14-04-2023 Day-6	Practical explanation on simulating smart lights using LDR, LED with Arduino.	Hands on experience on experiment simulating smart lights using LDR, LED with Arduino.	K. Jayshree

WEEKLY REPORT

WEEK-2(From Dt 8-04-2023 to Dt 14-04-2023)

Objective of the Activity Done: Basic Schematic smart lights

Detailed Report:

I have learned an introduction to microcontrollers, their Working & applications. Practiced on experiment fetching microcontroller response and output control on serial monitor by giving input one or two. Learn the functions used in the code. successfully performed simulating the smart street lights using LDR and LED. It is amazing to know the working Principle of LDR used in smart street lights. Got to know the explanation of code used in this experiment and LDR application happy to working on real time experiments The LDR is used for automatic contrast and brightness control in television receivers.

APPLICATIONS OF LDR:

- Used in smoke detectors.
- Optical coding.
- Camera light meters.
- Security alarm.
- Photo sensitive relay.

ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
15-04-2023 Day-1	Introduction to LM35, uses or few applications in real time scenario of experiments.	I have learned Introduction to LM35, uses or few applications in real time scenario of experiment.	K. Jayalakshmi
17-04-2023 Day-2	Basic principle of a diode to measure known temperature value and pin diagram explanation.	I have learned about basic principle of a diode to measure know Temperature value & Pin diagram explanation.	K. Jayalakshmi
18-04-2023 Day-3	Practical explanation on the experiment measuring room temperature using LM35.	Hands on experience on experiment measuring room temperature using LM35.	K. Jayalakshmi
19-04-2023 Day-4	Learn how it generates a continues output in the form of square wave at pin in multiple blinking of LED.	I have learned about put how it generates a continues output in the form of a square wave at pin in multiple Blinking of LED.	K. Jayalakshmi
20-04-2023 Day-5	Practical explanation on experiment multiple blinking LED on the Arduino.	I have learned about how it generates a continues output in the form of a square wave at pin in multiple Blinking of LED.	K. Jayalakshmi
21-04-2023 Day-6	Notes on LM35, multiple blinking of LED.	Finally, Lm35 and multiple blinking are done.	K. Jayalakshmi

WEEKLY REPORT

WEEK-3(From Dt 15-04-2023 to Dt 21-04-2023)

Objective of the Activity Done: Introduction LM35 & Basic multiple blinking LED

Detailed Report:

As an IOT intern during my third week, I have learned about introduction to LM35, uses or few applications in real time scenario of Experiment. Basic principle of a diode to measure know temperature value and pin diagram explanation. Practical explanation on the experiment measuring room temperature using LM35. Learn how it generates a continues Output in the form of a square wave at pin in multiple blinking of LED Practical explanation on experiment multiple blinking LED on the Arduino. Finally, LM35 and multiple blinking of LED.

ACTIVITY LOG FOR THE FORTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
22-04-2023 Day-1	Introduction to Raspberry pi, working principle of Raspberry pi and applications.	I have learned about Introduction to raspberry pi, working principle of raspberry pi and applications.	K. Jayalakshmi
24-04-2023 Day-2	Explanations of raspberry pi, pin diagram.	I have learned about explanation of raspberry pi pin diagram.	K. Jayalakshmi
25-04-2023 Day-3	Explanation on LED blinking using raspberry pi.	Learned about how an LED blinking using raspberry pi.	K. Jayalakshmi
26-04-2023 Day-4	Introduction of VNC viewer and learn steps to upload the code.	I have learned about the VNC viewer and various steps to upload the code.	K. Jayalakshmi
27-04-2023 Day-5	Practical explanation on LED blinking using raspberry pi.	Hands on experience on experiments on LED blinking using raspberry pi.	K. Jayalakshmi
28-04-2023 Day-6	Notes on raspberry pi LED blinking and some applications.	Finally raspberry pi LED blinking are done.	K. Jayalakshmi

WEEKLY REPORT

WEEK-4(From Dt 22-04-2023 to Dt 28-04-2023)

Objective of the Activity Done: LED Blinking using Raspberry pi
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Detailed Report:

As an IOT intern during my fourth week, I have learned
about Introduction to raspberry pi, working principle of raspberry pi
and its applications. Learned about the explanation of Raspberry pi pin
diagram, LED Blinking using Raspberry pi. Also, I have learned
introduction To VNC viewer and the steps involved to upload the
code. I got the practical experience on LED Blinking using Raspberry
pi. Finally, we are done with Raspberry pi LED Blinking and some
of its applications.

ACTIVITY LOG FOR THE FIFTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
29-04-2023 Day-1	Introduction to IR sensor and explanation of IR sensor pins.	I have learned Introduction to IR sensor and explanation of IR sensor pins.	K. Jayakumar
01-05-2023 Day-2	Working principle of IR sensor and its application.	Briefly learned about the working principle of IR sensor.	K. Jayakumar
02-05-2023 Day-3	Advantages & uses or few applications in real time scenario of experiment.	I have learned about some advantages & few applications of IR sensor.	K. Jayakumar
03-05-2023 Day-4	Theory section on experiment implementing on obstacle sensor using IR sensor.	I have learned about how to implement the obstacle sensor using IR sensor.	K. Jayakumar
04-05-2023 Day-5	Practical section on experiment upload code using (VNC viewer) Arduino.	Hands on experience on experiment upload code using (VNC viewer) Arduino.	K. Jayakumar
05-05-2023 Day-6	Notes on IR sensor and some applications.	Finally, IR sensor are done.	K. Jayakumar

WEEKLY REPORT

WEEK-5(From Dt 29-04-2023.to Dt 05-05-2023)

Objective of the Activity Done: Basic implementing an obstacle sensor using IR sensor

Detailed Report:

As an IOT intern during my fifth week, I have learned about Introduction to IR sensor, and explanation of various IR sensor pins. Working principle of IR sensor and its applications. Advantages And uses or few applications in real time scenario of experiment. Got some knowledge about how to implement an obstacle sensor using IR sensor. Learned how to upload the code to the Arduino by using the VNC viewer. Done with the notes on IR sensor and some applications of IR sensor.

ACTIVITY LOG FOR THE SIXTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
06-05-2023 Day-1	Introduction to an experiment "IR sensor using Raspberry pi".	Learned about IR sensor using Raspberry pi experiment.	<i>k. shah</i>
08-05-2023 Day-2	Learned about how an IR obstacle sensor detects any object with the range using Raspberry pi.	I have learned about how an IR obstacle sensor detects any object with the range using Raspberry pi.	<i>k. shah</i>
09-05-2023 Day-3	Few advantages and applications of the IR sensor using Raspberry pi.	I have learned about the few advantages and applications of the IR sensor using Raspberry pi.	<i>k. shah</i>
10-05-2023 Day-4	Practical section on IR sensor using Raspberry pi and code explanation.	Hands on experience on IR sensor using Raspberry pi and code explanation.	<i>k. shah</i>
11-05-2023 Day-5	By using VNC viewer and by following the steps to upload a code.	Learned about how to upload a code by using VNC viewer.	<i>k. shah</i>
12-05-2023 Day-6	Notes on IR sensor using Raspberry pi.	Finally, IR sensor using Raspberry pi is done.	<i>k. shah</i>

WEEKLY REPORT

WEEK-6(From Dt 06-05-2023 to Dt 12-05-2023)

Objective of the Activity Done: IR sensor using Raspberry pi

Detailed Report:

As an IOT intern during my sixth week, I have learned about Introduction to an experiment "IR sensor using Raspberry pi". Learned about how an IR obstacle sensor detects any object with the range using Raspberry pi. Few advantages and Applications of the IR sensor using Raspberry pi. Practical section on IR sensor using Raspberry pi and code explanation. By using VNC viewer and by following the steps to upload a code. Finally, done the notes on IR sensor using Raspberry pi

ACTIVITY LOG FOR THE SEVEN WEEK

Day & Date	Brief description of the Daily activity	Learning Outcome	Person In-Charge Signature
13-05-2023 Day-1	Introduction on the experiment "KNIGT RIDER" using for loop.	I have learned about introduction on the experiment "KNIGT RIDER" using for loop.	K. Shafeeq
15-05-2023 Day-2	Learned about how a for loop is used for Iterating over a sequence.	Briefly learned about how a for loop is used for Iterating over a sequence.	K. Shafeeq
16-05-2023 Day-3	Iterate over a series on pins with LED's using resistors.	Determined over a series on pins with LED's using resistors.	K. Shafeeq
17-05-2023 Day-4	Advantages and uses or few applications in real time scenario's experiment.	I have learned about advantages and uses or few applications in real time scenario's experiment.	K. Shafeeq
18-05-2023 Day-5	Practical section on the experiment and code explanation and upload the code in Arduino.	Hands on experience on the experiment and code explanation and upload the code in Arduino.	K. Shafeeq
19-05-2023 Day-6	Notes on the experiment "KNIGT RIDER "using for loop.	Finally, the experiment "KNIGTRIDER " Using for loop is done.	K. Shafeeq

WEEKLY REPORT

WEEK-7(From Dt 13-05-2023 to Dt 19-05-2023)

Objective of the Activity Done: Basic “KNIGHT RIDER” using for loop
Detailed Report:
As an IOT intern during my seventh week. I have learned about introduction on the experiment “KNIGT RIDER” using for loop. Learned about how a for loop is used for Iterating over a sequence. Iterate over a series of pins with LED's using resistors.
advantages and uses or few applications in real time Scenario's experiment. Practical section on the experiment and code explanation and upload the code in Arduino. Finally, notes on the experiment “KNIGHT RIDER” using for loop is done.

ACTIVITY LOG FOR THE EIGHT WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
20-05-2023 Day-1	Revision on experiment blinking of LED.	Revision on experiment Blinking of LED is done.	K. Jayaprakash
22-05-2023 Day-2	Revision on experiment fading a LED.	Revision on experiment fading on LED are done.	K. Jayaprakash
23-05-2023 Day-3	Revision on experiment fetch the micro controller response and output control on serial monitor.	Revision on experiment fetch the micro controller response and output control on serial monitor are done.	K. Jayaprakash
24-05-2023 Day-4	Revision on experiment measuring room temperature using LM35.	Revision on experiment fetch the measuring room temperature using LM35 are done.	K. Jayaprakash
26-05-2023 Day-5	Revision on experiment multiple blinking of LED's using Arduino.	Revision on experiment multiple blinking of LED's using Arduino are done.	K. Jayaprakash
27-05-2023 Day-6	Revision on the experiment simulating smart street lights using LED, LDR with Arduino mega 2560.	Revision on experiment simulating smart street light using LDR, LED with Arduino mega 2560 are done.	K. Jayaprakash

WEEKLY REPORT

WEEK-8(From Dt 20-05-2023 to Dt: 27-05-2023)

Objective of the Activity Done: Revision on experiment simulating

Detailed Report:

As an IoT Intern, during my eight week, I have done revision on experiment of Blinking of LED and also revision on experiment of Blink and Fading of LED and also, revision on experiment Fetch the micro controller response and output control on serial monitor. And then also revision on experiment measuring room temperature using LM35. Also, revision on experiment multiple blinking of LED's using Arduino. Finally, revision on experiment simulating smart street lights using LDR, LED with Arduino mega 2560 are done.

ACTIVITY LOG FOR THE NINETH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
29-05-2023 Day-1	Revision on experiment implementing an obstacle sensor using IR sensor & Arduino mega2560 fetching output on serial monitor.	To know and remember on implementing an obstacle sensor using an IR sensor and Arduino mega 2560 fetching output on serial monitor Are done.	k. s. j. b. s. e
30-05-2023 Day-2	Revision on experiment for loop statement (KNIGHTRIDER).	Revision on experiment Raspberry pi for loop statement experiment are done.	k. s. j. b. s. e
31-05-2023 Day-3	Revision on experiment raspberry pi LED blinking experiment.	Revision on experiment IR Raspberry pi LED blinking experiment is done.	k. s. j. b. s. e
01-06-2023 Day-4	Revision on the experiment IR raspberry pi.	Revision on experiment IR Raspberry pi is done.	k. s. j. b. s. e
02-06-2023 Day-5	Theory evaluation.	Objective of the experiment and code explanation.	k. s. j. b. s. e
03-06-2023 Day-6	Practical evaluation.	Circuit connections and output.	k. s. j. b. s. e

WEEKLY REPORT

WEEK-9(From Dt 29-05-2023 to Dt 03-06-2023)

Objective of the Activity Done: Practical Evaluation

Detailed Report:

As an IoT intern, during my night week, I have done the revision on experiment implementing an obstacle sensor using an IR sensor and Arduino mega 2560 and fetching output on serial Monitor. And also, revision on experiment for loop statement (KNIGHT RIDER) are done. Also, revision on experiment Raspberry Pi LED blinking experiment and also revision on experiment of IR Raspberry pi and also done the theory evaluation of objective Experiment and code explanation. Finally, circuit connections Output of practical evaluation are done.

ACTIVITY LOG FOR THE TENTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
05-06-2023 Day-1	Automatic Smoke detector alarm MQ-135 smoke sensor & Arduino.	I have understood the project.	K. Jayakumar
06-06-2023 Day-2	Identify the required components and studied uses of components for the project.	Bread Board, Arduino Uno, Smoke sensor, jumper wires, Buzzer, 2 LED's, Cable, Resistors.	K. Jayakumar
07-06-2023 Day-3	Working principle of sensors used in project.	In this project, A smoke sensor detects the fire (or) smoke in the industries, shopping malls.	K. Jayakumar
08-06-2023 Day-4	Problem definition of the project and proposed system.	A smoke detector is a device that sense smoke, typically as an indicator of fire it warning with alarm.	K. Jayakumar
09-06-2023 Day-5	Abstract and summery of the project.	The project Automatic smoke detector alarm MQ-135 smoke sensor & Arduino and gives us warning through led on.	K. Jayakumar
10-06-2023 Day-6	Review of previous experiment.	Practice session.	K. Jayakumar

WEEKLY REPORT

WEEK-10(From Dt 05-06-2023 to Dt 10-06-2023 .)

Objective of the Activity Done: Review of the previous experiments

Detailed Report:

As an IOT intern, during my tenth week, Automatic smoke Detector alarm MQ-135 smoke sensor & Arduino and understand the project.

The required components and studied uses of components for project.

The required components are Bread Board, Arduino UNO, 2 LED's, smoke Sensor, jumper wires, Buzzer, Cable. The software requirements are windows 10 operating system, Arduino IDE 1.8.5, in this project a smoke sensor detects The required components and studied uses of components for project. A smoke Sensor detects the fire protection device that automatically detects smoke and Gives as warning through led on and starts alarming with a buzzer.

A smoke sensor is a device that senses smoke, typically as An indicator of fire it warning with a alarm.

ACTIVITY LOG FOR THE ELEVENTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
12-06-2023 Day-1	Identify the required components from the circuit and studying.	Identifying the required components from circuit like Breadboard, Raspberry pi, wires, Leds	K. Jayakumar
13-06-2023 Day-2	Hands on experience on the project circuit connections.	practical session on experience on the project circuit connections	K. Jayakumar
14-06-2023 Day-3	Revision on hands on experience on the project circuit connections.	Revision on Hands on experience on the project circuit connections are done.	K. Jayakumar
15-06-2023 Day-4	Understand the code and execution of code in project.	understanding the code and execution of code in project	K. Jayakumar
16-06-2023 Day-5	Recording the project videos and photos.	recording the project videos and photos are done	K. Jayakumar
17-06-2023 Day-6	Started designing PPT's of the project.	Designing the ppt's of the project	K. Jayakumar

WEEKLY REPORT

WEEK-11(From Dt 12-06-2023to Dt 17-06-2023)

Objective of the Activity Done: started designing ppts of the project

Detailed Report:

As an IoT intern, during my eleventh week, I have

Identified the required components from the circuit and studying the

Components are Bread Board, Raspberry pi with cable, LEDs, single

Pin jumper wires and also done the practical session on experience the

Project circuit connections. Also, revision on hands on experience

On the project circuit connections and understanding the code and

Execution of code in project. Also, recording the project videos and

Photos. And finally, we have started the designing ppts of the project.

WEEKLY REPORT

WEEK-11(From Dt 12-06-2023to Dt 17-06-2023)

Objective of the Activity Done: started designing ppts of the project

Detailed Report:

As an IoT intern, during my eleventh week, I have

Identified the required components from the circuit and studying the

Components are Bread Board, Raspberry pi with cable, LEDs, single

Pin jumper wires and also done the practical session on experience the

Project circuit connections. Also, revision on hands on experience

On the project circuit connections and understanding the code and

Execution of code in project. Also, recording the project videos and

Photos. And finally, we have started the designing ppts of the project.

ACTIVITY LOG FOR THE TWELVETH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
19-06-2023 Day-1	Revision on the project circuit connection.	I have learned about Revision on the project circuit connections	<i>K. Jayakumar</i>
20-06-2023 Day-2	Started documentation of the project about "LED controlling Raspberry pi GPIO pins using Telegram app".	Get about started documentation of the project about project title	<i>K. Jayakumar</i>
21-06-2023 Day-3	Need to follow some instructions of the project document like font, size.	Need to follow some instructions of the project document line font size	<i>K. Jayakumar</i>
22-06-2023 Day-4	Collecting all the information and some pictures relating to project like hardware/ software component & etc.	To know that collecting all the information and some pictures relating to project like hardware and software components	<i>K. Jayakumar</i>
23-06-2023 Day-5	Taking screenshots of input and output screen or circuit connections of the project.	Determined the taking screenshots of input and output screen (or) circuit connections of the project.	<i>K. Jayakumar</i>
24-06-2023 Day-6	Attaching the screenshot & circuit connection of the project to documentation.	Notes on the attaching the screenshots & circuit connections IOT the project to documentation.	<i>K. Jayakumar</i>

WEEKLY REPORT

WEEK-12(From Dt 19-06-2023 to Dt 24-06-2023)

Objective of the Activity Done: Revision on the project circuit connections

Detailed Report:

As an IoT intern, during my twelfth week, we have done revision on the project and also started documentation of the project about “LED controlling Raspberry pi GPIO pins using Telegram app” and also, we need to follow some instructions of the project document like font, size. Also collecting all the information and some pictures relating to project like hardware/ software components & etc. and taking screen shots of input and output screen (or) circuit connections of the project. Finally, attaching the screen shot & circuit connection of the project documentation are done.

ACTIVITY LOG FOR THE THIRTEENTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
26-06-2023 Day-1	Revision the abstract & circuit connections.	I have learned about Abstract and circuit connections.	K. Jayakumar
27-06-2023 Day-2	Started designing ppt's of the project.	Learned ppt's designing of the project.	K. Jayakumar
28-06-2023 Day-3	Need to follow some instructions of the project ppt's.	I have learned some instructions of the project ppt's.	K. Jayakumar
29-06-2023 Day-4	Collecting all the information and some pictures required for ppt's.	Learned about collecting all the information and some pictures required for ppt's	K. Jayakumar
30-06-2023 Day-5	Taking screenshot of input & output screens to ppt's.	Collecting screenshot of input and output screens to ppt's.	K. Jayakumar
01-07-2023 Day-6	Attaching input and output screens to ppt's.	Finally attaching the input and output screens to ppt.	K. Jayakumar

WEEKLY REPORT

WEEK-13(From Dt 26-06-2023to Dt 01-07-2023)

Objective of the Activity Done: Revision on the abstract circuit connections

Detailed Report:

As an IoT intern, during my thirteenth week, I have done the revision abstract and circuit connections of the project. I have learned how to design the PPT's of the project. I have learned how to make the ppt's and some instructions to be followed. Also, I learned how to gather the required information and pictures for ppt's learned what are the input and output screens and attaching them to ppt. Taking screen shots of input and output screens to ppt.

ACTIVITY LOG FOR THE FOURTEENTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
03-07-2023 Day-1	PP & Document Preparation	Software, Hardware, requirements	L. Updey
04-07-2023 Day-2	Hands on project & PPT	conclusion & bibliography are documents	L. Updey
05-07-2023 Day-3	PPT & checking of slides	PPT created	L. Updey
06-07-2023 Day-4	code execution	The written code is executed	L. Updey
07-07-2023 Day-5	PPT making	PPT for project done	L. Updey
08-07-2023 Day-6	practice the PPT presentation	perfection the PPT presentation.	L. Updey

WEEKKKLY REPORT

WEEK-14(From Dt 03-07-2023 to Dt 08-07-2023)

Objective of the Activity Done: Document preparation

Detailed Report:

As an IoT intern, during my fourteenth week, I started PPT and Document preparation, the software and hardware requirements. I have learned and understood my project. Written conclusion and bibliography are done. Finally, the PPT is created checking the slides of the PPT are done. The code is written and written code is executed. PPT making for the project is done. Finally, I have practiced the PPT presentation.

ACTIVITY LOG FOR THE FIFTEENTH WEEK

Day & Date	Brief description of the daily Activity	Learning Outcome	Person In-Charge Signature
10-07-2023 Day-1	A mock presentation of project	Suggestions were given to improve our performance	k.sathya
11-07-2023 Day-2	practice for viva	viva preparation	k.sathya
12-07-2023 Day-3	setting font & size of headings, font & size of matter	documentation done	k.sathya
13-07-2023 Day-4	preparation for viva	viva preparation	k.sathya
14-07-2023 Day-5	preparation for viva & handson project	project done	k.sathya
15-07-2023 Day-6	PPT presentation and viva	PPT and viva are done	k.sathya

WEEKLY REPORT

WEEK-15(From Dt 10-07-2023 to Dt 15-07-2023)

Objective of the Activity Done: PPT preparation

Detailed Report:

As an IoT intern, during my fifteenth week, A mock Presentation of the project is given and some suggestions were given To Improve our performance. The viva preparation, practice for viva is done. Documentation is done, setting font and size of headings, Font and size of matter. Viva preparation is done. Finally, the project is completed.

CHAPTER5: 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 team work, motivation, space and ventilation, etc.)

A work environment is a place where a person or intent or employee performs job. It can impact the feelings, relationships and growth of intern during the internship. I did my internship on able to experience a good work environment. I interacted with directed of “SAMPATH INFO PRIVATE LIMITED”, Mr. D. Anil kumar who offered me the opportunity of internship. I interacted my project guide Mrs. Deepthi kiranmayi, who trained us and give some valuable suggestions and rendered her help in completion of my project. Our internal guide Mrs. Y. SRIDEVI Guided us in doing the internship effectively. The co-interns and faculty were friendly and approachable so it was easy for me to ask any help and clarify things whenever I needed it.

The facilities were in work place were maintained well. A lab with fully equipped computer systems, wi-fi and projector to take classes. The work had well established protocols, procedure and processes that were strictly followed. The timings are from with minimal breaks for mind relaxation. Clear guidance was given regarding the different activities to be done in internship beforehand. This is helped me to do the work effectively and efficiently.

The internship time was full of discipline and made me punctual in completing my work in time and develop my time management skills. I experienced some harmonious relationships with myco-interns and guide lectures

to work together and complete internship successfully.

During this I realized there was a mutual support between all of us even in the bunch of over work my teammates supported and helped me to get out of the pressure of over work. Raising my network of people helped me to enhance my community and inter personal skills.

The work place had adequate and ventilation was good. My experience in the work environment during my internship was positive which helped me to stay motivated and made my internship successful.

Describe the real time technical skills you have acquired (in terms of the job-related skills and hands on experience)

IOT professionals will need adverse skills ethane able them to develop and maintain IOT infrastructure at every level of the technology stack.

- Technical skills are python program used for raspberry pi and Arduino programming language used for Arduino programs.
- Arduino mega 2560.
- Raspberry pi.
- Microcontrollers.

❖ MICROCONTROLLER:

Microcontroller job needs skills based on hardware or software profile. As a micro controller programmer, one need to have strong knowledge on c language as most of the microcontroller programs are written in embedded c which is similar to c language.

- ❖ Today ‘s most popular micro controller language includes ‘MICROPYTHON’,’CIRCUIT PYTHON ‘,’ARDUINO (Simplified c++)’and ‘c’ language.

❖ ARDUINOMEGA2560:

Arduino mega 2560 skills in embedded system are Arduino mega2560 is a development electronics board based on the at mega 2560micro controller. this board is a good match for project that require more GPIO pins. GPIO means general purpose input &output and memory space because it carries 16 analog pins and 54 digital

input & output pins which are pins used for PWM output. PWM means pulse width modulation.

❖ **RASPBERRYPI:**

Skills that raspberry pi projects can help we practice.

- Programming
- Carpentry
- Electronics
- Networking and Cybersecurity

➤ Artificial intelligence and robotics

Raspberry pi is a series of small single board computers (SBCS) developed in the United Kingdom by raspberry pi foundation in association with boardcom.

❖ **Arduino:**

Arduino is a project, open-source hardware and software platform used to design and build electronic devises and it designs and manufacture microcontroller kits and single board interfaces for building electronics projects.

The Arduino boards were initially created to help the students with their on-technical background.

❖ **Raspberry pi:**

Using the IOT technology with raspberry pi 3 allows you to monitor and control devises remotely, collect and exchange data and create automation system relative ease.

More over raspberry pi 3 can be expended by adding different sensor and Modules.

❖ **LDR:**

LDR is photo resistor sensor, also known as light dependent resistor (LDR), are light sensitive devises most often used to indicate the presence of absence light or to measure the light intensity.

❖ **LM35**

LM35 is temperature sensor that outputs analog signals which is proportional to the instantaneous temperature.

❖ **IR sensor:**

IR sensor are now widely used in motion detectors, which are used in building services to switch on lambs are in alarm system to detect un welcome guests.

❖ **Laser sensor:**

It is a measurement value recorder working with laser technology and

turning the physical measured value into an analog electrical signal.

❖ **Ultrasonic sensor:**

It is an instrument that measure the distance to an object using an ultrasonic sound wave.

❖ **Water sensor:**

An IOT smart water meter tracks. The quality, peruse and consumed quality to water in a house hold or industry. An IOT smart water sensor can we used to track the flow of water across the entire planet and over the distribution channels.

❖ Led Light:

Led are small, bright power-efficient lights, commonly used in electronic products.

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

Management skills are crucial for success in the life of any individual / organization. During my internship I had the opportunity to work with a group and experienced faculty who helped me in developing various managerial skills. such as planning, leadership, teamwork, productive use of time etc.in the beginning of my internship I realized that I lacked some of these skills. but the opportunities and could improve in these areas.

I learnt to plan my work each day what I need to do for the next day without postponing also, I learnt to proper my work so that I could not waste my time.

from the beginning I was ready to take initiative for all the things.to internship working together as a team make me a person who shares all the knowledge and supportive with my teammates.

I also learnt to maintain good relation with others by respecting my faculty and friends and I am regular in my class every day.

I used to manage my time effectively so that I can minimize my distractions. Instead of wasting time in social media I used engage myself with different activities related to internship and project.

Every week I used to learn new thing and make an effort to learn many skills. By making goals to my work makes it effectively done. I also learnt to make decision by gathering relevant information level up my self-confidence by giving mock presentation actively in class.

As a result of acquiring these managerial skills during my internship. I became more efficient in planning and executing tasks.

Describe how you could improve your communication skills (in terms of improvement in oral communication, written communication, conversation 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.,)

During my internship I realized that good communication skills are necessary for building relationship with others for professional network. Previously I used to hesitate with sharing my thoughts and work. but with this internship I express my opinions openly with my team using communication skills.

I practiced speaking Infront of my classmates by teaching them and clarify doubts. Especially during JAM sessions and group discussions. I level up my body language, eye contact with effectively. I made a conscious effort to focus more on active listening.

I improved my writing skills by noting down the important points during the classes and also by writing the daily and weekly reports and getting my ideas and outcomes in the form of writing which helped me to improve my grammar, vocabulary, sentence structure and those improve my writing communication.

Active listing plays a key role which help us to understand the concepts clearly. I was able to converse with my friends doing the project, listen to their opinions.

I learn the techniques to manage me during conversation by having a positive self-talk by summarizing the key points. I learned to close the conversation professionally I learn how maintain professionally by having opportunity language and addressing people with respect.

As a result I have seen a significant improvement in my communication skills and professional skills which are helpful in daily life.

Describe how could you could enhance your abilities in group discussions, participation in teams, contribution as a team member, leading a team/activity.

Group discussion:

Group discussion improves things thinking, listening and speaking skills. It also promotes confidence levels. Through group discussion I could enhance my abilities like preparation of the topic, also through listening to other team members I could share my opinions and clarifications to understand their perspectives.

Practice section in team helped me to improve myself in talking information in doing things in information and to offer help and support to the team members. I also learn to be responsible so that my team members want face any ruble because of me.

Contribution as a team member:

As I was working in a team I could identify my strengths and utilize them in helping my friends and contribute my knowledge effectively while doing the project. I used to encourage and help others in doing the works.

I learn to be openminded.

Leading a team:

I am overwhelmed to get a chance of leading a team in this internship. This helps to me a lot grow as intern and attain some more related job skills. Enhanced my professionalism I could work well by dividing the work between team members and motivating them to complete it in time at the same to enjoy the work that we are doing.

Thus I would enhance my abilities in group discussions, participation in team contributing as a team member and leading a team activity.

Describe the technological developments you have observed and relevant to the subject area of training (focus on digital technologies relevant to your job role)

Arduino is a project, open-source hardware and software platform used to design and build electronic devices. It designs and manufactures microcontroller kits and single-board interfaces of building

The Arduino boards were initially Created to help the students with the non- technical back ground.

Raspberry pi:

Using the IoT technology with Raspberry Pi 3 allows you to monitor and control devices remotely, collect and exchange data and create automation systems with relative ease. Move over Raspberry pi 3 can be expanded by adding different sensors and modules.

LDR:

LDR is a photo resistor sense, also known as Light dependent resistor (LDR), are light sensitive devices most often used to indicate the presence of absence of light, (or) to measure the light intensity.

LM35:

LM35 is a temperature sensor that outputs an analog signal which is proportional to the instantaneous temperature.

IR sensor: (Infrared sensor)

IR sensors are now widely used in motion detectors, which are used in building services to switch on lamps or in alarm systems to detect unwelcome guests

Laser sensor:

"It is a measurement value recorder working with laser technology and turning the physical measured value into an analogue electrical signal.

Ultra Sonic sensor:

It is an instrument that measures the distance to an object using ultrasonic sound waves.

Water sensor:

An IoT Smart water meter tracks the quality, pressure, and consumed quality of water in a House hold (or) industry. An IOT smart water sensor can be used to track the flow of water across the entire plant and over the distribution channels.

Helping in leakage detection, to reduce water wastage.

LED Light & light-emitting Diode):

LED are small, bright power efficient lights commonly used in electronic products.

Student Self Evaluation of the Long-Term Internship

Student Name: Yemijala Madhu Shalini **Registration No.:** 203307137428

Term of Internship: From: 01/04/2023 To: 15/07/2023

Date of Evaluation: 15/07/2023

Organization Name & Address: Sampath info put Ltd, Sai Nagar,
Chodimella, Eluru-534002

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	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: 15/07/2023

Y. Madhu Shalini
Signature of the Student

Evaluation by the Supervisor of the Intern Organization

Student Name: Yemijala Madhu Shalini

Registration No: 203307137428

Term of Internship:

From: 01-04-2023

To : 15-07-2023

Date of Evaluation: 15-07-2023

Organization Name & Address: Sampath Info Pvt Ltd, Sainagar, Chodimella, Eluru - 534002

Name & Address of the Supervisor V. Deepthi Kiranmayi
with Mobile Number 9052951509

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

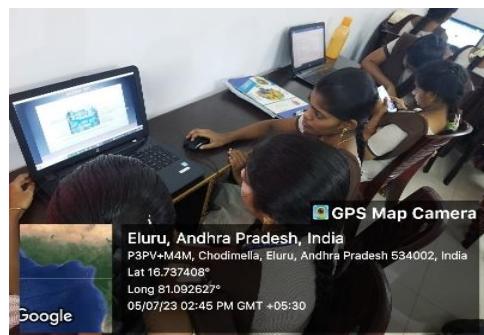
Rating Scale: 1 is lowest and 5 is highest rank

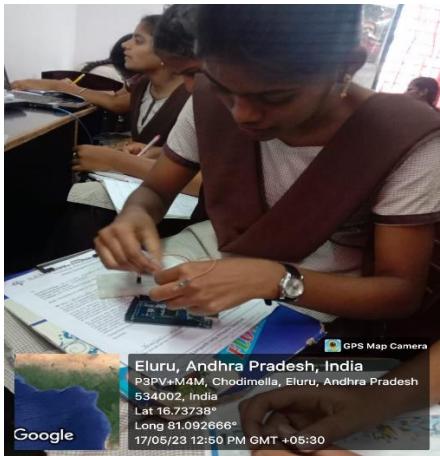
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2	Written communication	1	2	3	4	5
3	Proactiveness	1	2	3	4	5
4	Interaction ability with community	1	2	3	4	5
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14	Achievement of Desired Outcomes	1	2	3	4	5
15	OVERALL PERFORMANCE	1	2	3	4	5

Date: 15/7/23

V. Deepthi Kiranmayi
Signature of the Supervisor

PHOTO&VIDEOLINK





<https://drive.google.com/file/d/1Y0cGma1tWLvxGrU6PFBtRVYc-Teohtl/view?usp=drivesdk>

<https://drive.google.com/file/d/1Y0fTkJ6mCdc1Sp8kiB8Ezv9gx2668wmJ/view?usp=drivesdk>

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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, inter personal 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 10marks
 - Internship Evaluation 30marks
 - Oral Presentation 10marks
- The weightings for External Evaluation shall be:
 - Internship Evaluation 100marks
 - Viva-Voce 50marks
- 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.

MARKSSTATEMENT
(To be used by the Examiners)

INTERNAL ASSESSMENT STATEMENT

ENT

Name of the Student: Yemijala Madhu Shalini
Programme of Study: Internet of Things (IOT)

Year of Study: 2022-2023

Group: BSC (MECS)

Register No/H.T. No: 203307137428

Name of the College: Sir C R Reddy College for Women

University: Adikavi Mannaya University

Sl.No	Evaluation Criterion	Maximum Marks	Marks Awarded
1.	Activity Log	10	
2.	Internship Evaluation	30	
3.	Oral Presentation	10	
	GRANDTOTAL	50	

Date: 15/07/2023

K. Jothi Reddy
Signature of the Faculty Guide

EXTERNAL ASSESSMENT STATEMENT
ENT

Name of the Student: *Yemijala Madhu Shalini*

Programme of Study: *Internet of Things (IOT)*

Year of Study: *2022-2023*

Group: *BSc (MECS)*

Register No/H.T. No: *203307137428*

Name of the College: *Sir CR Reddy College for Women*

University: *Adi Kavi Mannaya University*

<i>S.I.N o</i>	<i>Evaluation Criterion</i>	<i>Maximu m Marks</i>	<i>marks Awarde d</i>
1.	Internship Evaluation	80	
2.	For the grading giving by the Supervisor of the Intern Organization	20	
3.	Viva-Voce	50	
	TOTAL	150	
GRAND TOTAL(EXT.50M+ INT.100M)		200	

k. Jelena

Signature of the Faculty Guide

Yselene

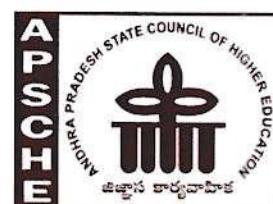
Signature of the Internal Expert

Adwoah

Signature of the External Expert

Isolani

Signature of the Principal with Seal



ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of Andhra Pradesh)

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