



SRM

INSTITUTE OF SCIENCE & TECHNOLOGY

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DELHI NCR CAMPUS, GHAZIABAD, (U.P.)

SRM INSTITUTE OF SCIENCE & TECHNOLOGY

(FACULTY OF SCIENCE & HUMANITIES)

DEPARTMENT OF COMPUTER APPLICATIONS

PRACTICAL FILE

INTELLIGENT INTERNET OF THINGS

[PGI25D03J]

MCA (Gen AI) 1ST YEAR, 1ST SEMESTER

Session: 2025-26

SUBMITTED TO :

Ms. Vishakha Sharma

Assistant Professor

Department of Computer Applications

SUBMITTED BY :

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S R M INSTITUTE OF SCIENCE & TECHNOLOGY

DELHI NCR CAMPUS, MODINAGAR

(FACULTY OF SCIENCE & HUMANITIES)

DEPARTMENT OF COMPUTER APPLICATIONS

Registration No. :

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BONAFIDE CERTIFICATE

Certified to be the Bonafide record of the work done by **Rishikesh Kumar** of **MCA (Gen AI) 1ST Year/ 1ST Semester** for the Award of **Master's Degree** in the **DEPARTMENT OF COMPUTER APPLICATIONS** in **Intelligent Internet of Things [PGI25D03J]** laboratory during the Academic Year 2025-26

SUBJECT IN – CHARGE

HEAD – COMPUTER APPLICATIONS

Submitted for the University Examination held on _____.

INTERNAL EXAMINER - 1

INTERNAL EXAMINER – 2

INDEX

S.No.	Experiment Title	Date of Experiment	Signature
1	Arduino Installation and Blink LED using Node MCU Esp8266. Interfacing Light Sensor with ESP8266	04-08-2025	
2	NODE MCU WiFi Board.	04-08-2025	
3	Interfacing Infrared (IR) Sensor with Node MCU Esp8266.	11-08-2025	
4	Interfacing Temperature Humidity Sensor with Node MCU Esp8266.	11-08-2025	
5	Interfacing MQ 4 GAS Sensor with Node MCU Esp8266.	18-08-2025	
6	Interfacing Relay and Control LIGHT with Node MCU Esp8266.	18-08-2025	
7	Create an Access point and a Webserver using Node MCU Esp8266.	18-08-2025	
8	Interfacing Temperature Humidity Sensor and Visualize data in Cloud Server with Node MCU Esp8266.	01-09-2025	
9	Create a Smart Switch to Control Light from Internet.	01-09-2025	
10	Create a Voice Controlled Switch Using Arduino IoT Cloud.	01-09-2025	
11	ESP8266 NodeMCU Data Logging to Firebase Realtime Database.	08-09-2025	
12	Install OS and Configure Raspberry pi.	08-09-2025	
13	Integrating IR sensor with Raspberry pi and control an LED using python.	15-09-2025	
14	Raspberry Pi: Send an Email using Python.	15-09-2025	
15	Install Mosquitto MQTT Broker on Raspberry Pi.	15-09-2025	