



SRI KRISHNA COLLEGE OF TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)

KOVAIPUDUR, COIMBATORE 641042



**SRI KRISHNA
INSTITUTIONS**
COIMBATORE

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| REG NO. & NAME OF STUDENT | : BTUCS220 & P. Sethupathi |
| SEMESTER & YEAR OF STUDY | : VII & IV |
| COURSE NO. & NAME OF LABORATORY COURSE | : 18IT067 & IOT |
| EXPERIMENT NO. | : 01 |
| TITLE OF EXPERIMENT | : |
| 02 Emission Identification System | |
| DATE OF EXPERIMENT | : |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|--------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION&VIVAVOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARE TOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|--|----------|
| 1 | MQ 135 Gas Sensor | |
| 2 | Arduino Uno | |
| 3 | WiFi module ESP206 | |
| 4 | 10x2 LED | |
| 5 | Breadboard & wires | |
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| REG NO. & NAME OF STUDENT | : 18TVCS220 & P. Sethupathi |
| SEMESTER & YEAR OF STUDY | : VI & IV |
| COURSE NO. & NAME OF LABORATORY COURSE | : 18IT067 & IOT |
| EXPERIMENT NO. | : 02 |
| TITLE OF EXPERIMENT | : |
| Automatic Irrigation System | |
| DATE OF EXPERIMENT | : |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|-----------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION & VIVA VOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARE TOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|--|----------|
| 1. | Arduino UNO | |
| 2 | GSM module | |
| 3 | wires & 16x2 LCD | |
| 4 | Power supply | |
| 5 | Delay 12v | |
| 6 | Soil moisture sensor | |
| 7 | Resistors | |
| 8 | Pumps. | |
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| REG NO. & NAME OF STUDENT | : | 18TUCS220 & P. S. S. S. S. S. |
| SEMESTER & YEAR OF STUDY | : | VII & IV |
| COURSE NO. & NAME OF LABORATORY COURSE | : | 18IT00 & IoT |
| EXPERIMENT NO. | : | 03 |
| TITLE OF EXPERIMENT | : | |
| Theft Identification Alert System | | |
| DATE OF EXPERIMENT | : | |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|-----------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION & VIVA VOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARE TOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|--|----------|
| 1 | ESP8266 | |
| 2 | PIR Sensor | |
| 3 | Voice module | |
| 4 | BC547 (Cmos) | |
| 5 | power supply & wires. | |
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| REG NO. & NAME OF STUDENT | : 18TUES220 G P Sathupathi |
| SEMESTER & YEAR OF STUDY | : VII & IV |
| COURSE NO. & NAME OF LABORATORY COURSE | : 18IT0674 IOT |
| EXPERIMENT NO. | : 02 |
| TITLE OF EXPERIMENT | : |
| Health abnormal system | |
| DATE OF EXPERIMENT | : |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|-----------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION & VIVA VOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARE TOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|--|----------|
| 1. | Pulse sensor | |
| 2 | ESP 8266 | |
| 3 | Arduino Uno | |
| 4 | LED & wires | |
| 5 | Resistors. | |
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| REG NO. & NAME OF STUDENT | : 18TUCS2202 P. Sethupathi |
| SEMESTER & YEAR OF STUDY | : VIK IV |
| COURSE NO. & NAME OF LABORATORY COURSE | : 18TFO674 IOT |
| EXPERIMENT NO. | : 05 |
| TITLE OF EXPERIMENT | : Alcohol Detector |
| DATE OF EXPERIMENT | : |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|--------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION&VIVAVOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARE TOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|--|----------|
| 1. | Sensor | |
| 2 | Arduino UNO | |
| 3 | LED & wires | |
| 4 | Bumper. | |
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| REG NO. & NAME OF STUDENT | : 18TUCS2502 P. Jethupathi |
| SEMESTER & YEAR OF STUDY | : VII & IV |
| COURSE NO. & NAME OF LABORATORY COURSE | : 18T06 & IOT |
| EXPERIMENT NO. | : 06 |
| TITLE OF EXPERIMENT | : Water tank level monitoring system |
| DATE OF EXPERIMENT | : |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|-----------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION & VIVA VOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARE TOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|--|----------|
| 1. | Arduino Uno | |
| 2. | ultrasonic sensor module | |
| 3. | 16x2 LCD | |
| 4. | wires | |
| 5. | Delay | |
| 6. | Water Pump. | |
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| REG NO. & NAME OF STUDENT | : 18TUCS2200 P. Sathupathi |
| SEMESTER & YEAR OF STUDY | : V12-1V |
| COURSE NO. & NAME OF LABORATORY COURSE | : 18IT067 IoT |
| EXPERIMENT NO. | : 07 |
| TITLE OF EXPERIMENT | : |
| Rain fall level detection system | |
| DATE OF EXPERIMENT | : |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|--------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION&VIVAVOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARETOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|---|----------|
| 1. | Arduino UNO | |
| 2. | Rain sensor | |
| 3. | Buzzer | |
| 4. | wires. | |
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| SEMESTER & YEAR OF STUDY | : VII & IV |
| COURSE NO. & NAME OF LABORATORY COURSE | : 18IT067 & IOT |
| EXPERIMENT NO. | : 08 |
| TITLE OF EXPERIMENT | : |
| Gas Leakage Monitoring System | |
| DATE OF EXPERIMENT | : |

EVALUATION BY FACULTY MEMBER (BASED ON RUBRICS)

| CRITERIA | MAXIMUM MARKS | MARKS SCORED BY STUDENT |
|-----------------------------------|---------------|-------------------------|
| BACKGROUND THEORY (PRE LAB) | 20 | |
| PROCEDURE (EXECUTION) | 40 | |
| DISCUSSION (EXECUTION) | 20 | |
| CONCLUSION & VIVA VOCE (POST LAB) | 20 | |
| TOTAL MARKS | 100 | |

EXPERIMENT OBJECTIVE:

REQUIREMENTS FOR EXPERIMENT EXECUTION

| S NO. | ITEM/SOFTWARE TOOLS DESCRIPTION WITH SPECIFICATION | QUANTITY |
|-------|--|----------|
| 1. | Arduino & wire | |
| 2. | Buzzers | |
| 3. | 16x2 LCD | |
| 4. | LPG Gas Sensor module. | |
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