# P.S.R. ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)
Approved by AICTE, New Delhi & Accredited by National Board of Accreditation (NBA)
Accredited by NAAC with A+ Grade, recognized under 2(f) and 12(b) of the UGC Act, 1956
An ISO 9001:2015 Certified Institution

**Sevalpatti (P.O), Sivakasi - 626140. Tamilnadu.**

## DEPARTMENT OF ECE

## INNOVATIVE PRACTICES

| | | | |
|---|---|---|---|
| Programme: | B.E | Branch: | Electronics and Communication Engineering |
| Academic Year: | 2024-2025 | Year/Semester/Section: | IV / VII |
| Course Code: | 191OE2A | Course Name: | Agriculture Electronics |
| Date: | 09.10.2024 | | |
| Course Tutor(s): | Dr.R.Jenitha | | |

| | |
|---|---|
| **Unit / Topic** | **Unit I / Types of soil and its testing** |
| **Course Outcome** | CO1: Explain the basics of agriculture. |
| **Activity Chosen** | **Lab Visit** |
| **Activity Implementation** | Students were taken to soil mechanics lab at civil department of P.S.R Engineering college. They were show cased about various types of soil and explained about soil testing machines and its operations. |
| **Type of Activity** | ~~Individual~~ / Group / ~~Both~~ |

**CO – PO -PSO Mapping**

| CO/PO&PSO | PO1 | PO2 | PO3 | PO4 | PO5 | PO7 | P012 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|
| CO1 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |

**Images / Screenshot of the practice:**

Course Tutor

Programme Co-ordinator

HOD/ECE

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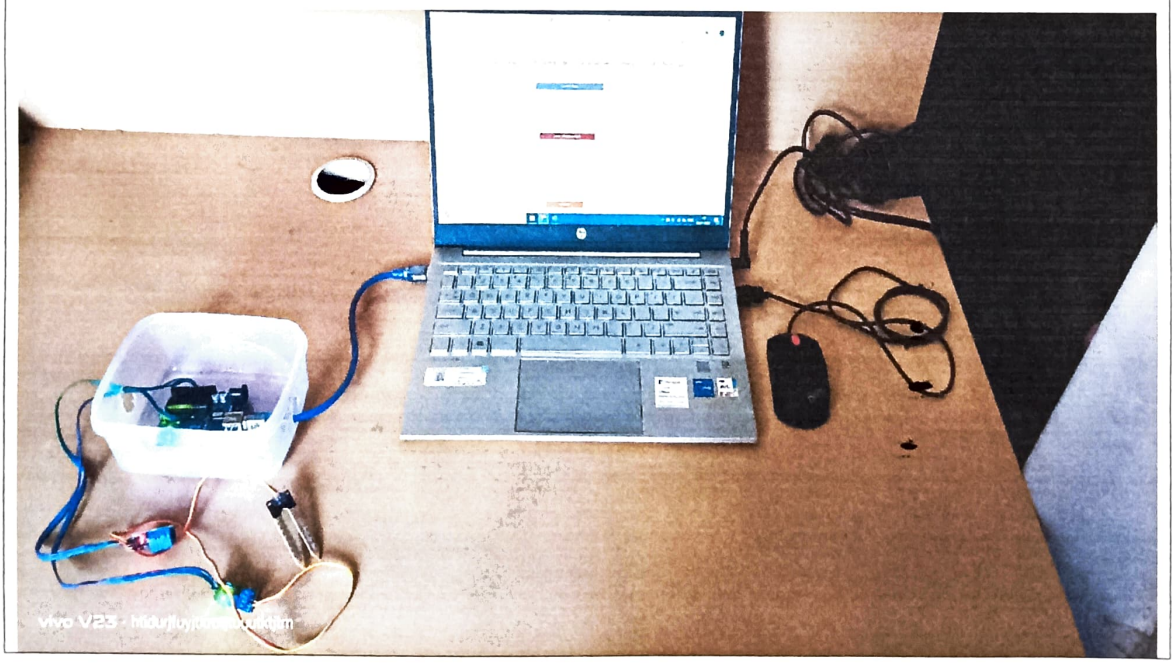
| Programme: | B.E. | Branch: | Electronics and Communication Engineering |
| Academic Year: | 2024-2025 | Year/Semester/Section: | IV / VII |
| Course Code: | 191OE2A | Course Name: | Agriculture Electronics |
| Date: | 23.10.2024 | | |
| Course Tutor(s): | Dr.R.Jenitha | | |

| | |
|---|---|
| **Unit / Topic** | **Unit II & III / AGRICULTURAL TRANSDUCERS & AGRO METEOROLOGY** |
| **Course Outcome** | CO2: Demonstrate the functionality of transducers used in agriculture<br>CO3: Illustrate the various meteorological instruments utilized in agriculture. |
| **Activity Chosen** | **Field Testing** |
| **Activity Implementation** | Students were taken to the guava farm of P.S.R Engineering college. The field was tested with meteorology sensors (temperature sensor, humidity sensor, and soil moisture sensor) connected with Arduino UNO and analyzed with the open source on the PC. |
| **Type of Activity** | ~~Individual~~ / Group / ~~Both~~ |

**CO – PO -PSO Mapping**

| CO/PO&PSO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | P012 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO2 | 3 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 3 |
| CO3 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 3 |

**Images / Screen shot of the practice:**



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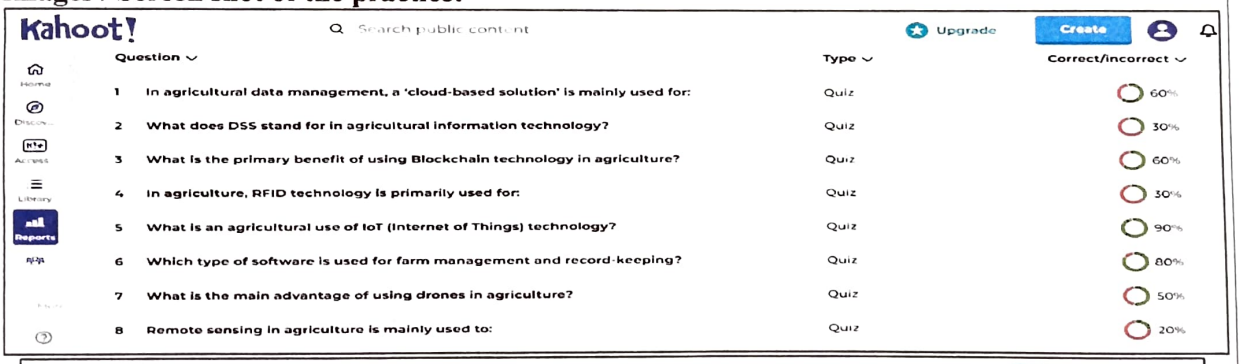
| Course Tutor(s): | Dr.R.Jenitha | | |

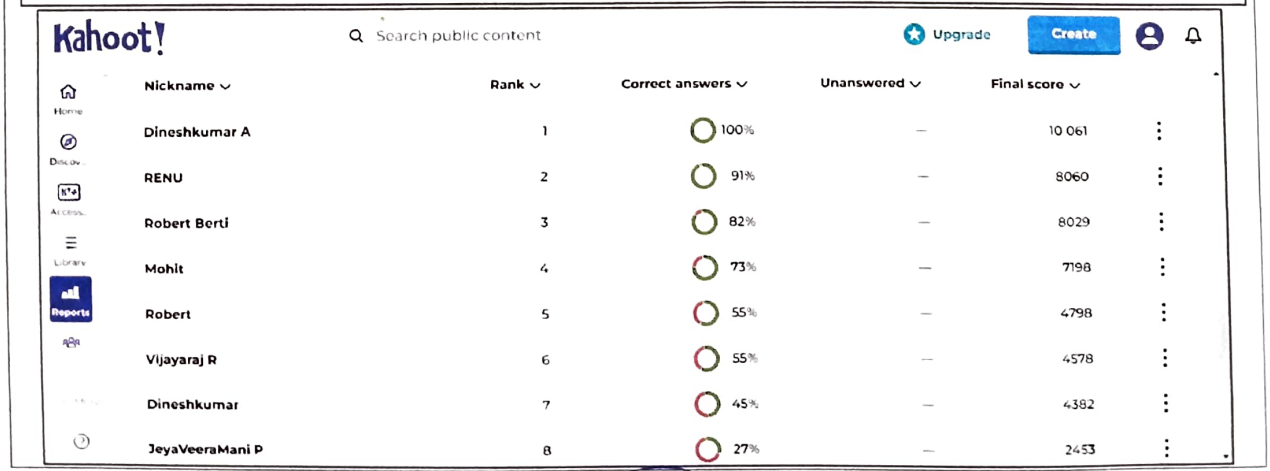
| | |
|---|---|
| **Unit / Topic** | **Unit IV / COMPUTERS AND SPECIAL INFORMATION TECHNOLOGY IN AGRICULTURE** |
| **Course Outcome** | CO4: Apply the computer technologies in agriculture. |
| **Activity Chosen** | **Gamification** |
| **Activity Implementation** | Students were given with set of questions in Kahoot application with a link. All the students took part in that, and the results with rank status can be viewed in the website. |
| **Type of Activity** | ~~Individual~~ / Group/ ~~Both~~ |

**CO – PO -PSO Mapping**

| CO/PO&PSO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | P012 | PSO2 | PSO3 |
|---|---|---|---|---|---|---|---|---|---|---|
| CO4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |

**Images / Screen shot of the practice:**




**Course Tutor** **Programme Co-ordinator** **HOD/ECE**