**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

**ENGINEERING**

**IBM – LITERATURE SURVEY**

**PROJECT TITLE**

**SMART FRAMING BASED ON IOT**

(2022-2023)



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| **S.NO** | **TITLE OF PROJECT** | **ADVANTAGES** | **DISADVANTAGES** | **TECHNOLOGY** |
| 1 | SMART AGRO SYSTEM USING WIRELESS SENSOR NETWORKS | \*Reducing human effects  \*Recycle water | \*Internet connection is slower | \*IOT/cellular |
| 2 | Cloud based data analysis and monitoring of smart multi-level Irrigation system using iot | \*powerful processing resources  \*easy to use | \*High bandwidth costs  \*service provider dependent | \*cloud Analytics |
| 3 | Water spray detection for smart irrigation systems with mask R-CNN and UAV footage | \*highly efficient system given its uniform water distribution | \*high initial cost as it need high power pump for the sprinkler  \*wind effect is considerable  \*overflow of water can cause diseases | \*IOT |
| 4 | Smart farm and monitoring system for measuring the environmental condition using Wireless sensor network | \*wider reach  \*measure of water was distributed | \*security issues  \*high dependency on the internet | \*IOT  \*Wireless network |
| 5 | Cyber attacks on smart farming infrastructure | \*It helps us to browse the safe website  \*It will defend us from hacks and virus | \*Internet connection slower | \*DOS  \*IEEE 802.11 VULNERABILITIES |
| 6 | Robust smart irrigation system using hydroponic farming based on data science and IOT | \*Reduced plant disease  \*bigger yields | \*initial costs higher  \*risks of water and electricity | \*IOT SERVER  \*DATA SCIENCE |
| 7 | Smart farming –IOT in agriculture | \*Save water and electricity  \*cost less | \*Need for each soil type is calibrated | \*IOT  GDP |
| 8 | Smart farming using IOT in agriculture by tangible program for children | \*children thinking skills  \*creativity | \*tangible interfaces are not without drawbacks | \*IOT  \*Tangible program |
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