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| PCCOE&R Logo | **Pimpri Chinchwad Education Trust’s**  **Pimpri Chinchwad College of Engineering& Research, Ravet, Pune**  **Department of Electronics and Telecommunication** | |
| **A Y:** 2021 -22 | **Project Summary Report** | **Group No:10** |

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| **Project Summary** | | | | | | | | | | | | | | | | |
| **Project Title** | | | | **Advanced Safety Helmet For Workers** | | | | | | | | | | | | |
| **Student Names** | | | | **Mrunal Jadhav, Niraj Mistri, Akansha Pole** | | | | | | | | | | | | |
| **Guide Name** | | | | **Prof. Arti Tekade** | | | | | | | | | | | | |
| **Sponsored Project** | | | | No **Company Name:- NA** | | | | | | | | | | | | |
| **Area of Project (Domain)** | | | | Microprocessor and IOT based Project | | | | | | | | | | | | |
| **Relevance of Project** | | | | Product Oriented | | | | | | | | | | | | |
| **Project Abstract** | | | | | | | | **Project Block Diagram** | | | | | | | | |
| Mining is world's most dangerous professions. In some nations, underground miners lack safety and social protection, be left to fend for themselves if injured. Additionally, there are adverse societal repercussions, including displacement and loss of livelihood. Mining has the greatest fatality rate of any industry. The most workplace fatalities poisoning, and electrocution. There are various case studies regarding underground mines; for example, a recent case study in China indicated that underground mining is the world's deadliest business. disasters, we developed a more advanced communication technology that must work in tandem with an intelligent sensing and warning system. The most critical component in every business is safety. are paramount in the mining business. To avoid mishaps, the mining sector takes various safety precautions .  Keywords: Internet of Things (IOT), Wi-Fi, Cloud Think Speak, Python 8. | | | | | | | |  | | | | | | | | |
| **Project Model** | | | | | | | | | | | | | | | | |
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| **Project Outcomes** | | | | | | | | | | | | | | | | |
| **Copyright Registration No.** | | | | | | **L-114319/2022** | | | | | | | | | | |
| **Patent Application No.** | | | | | | **NA** | | | | | | | | | | |
| **Conference/ Journal Published Paper Title** | | | | | | **Advanced Safety Helmet For Workers** | | | | | | | | | | |
| **Conference /Journal Name** | | | | | | 1. 7th International Conference on Microelectronics, Computing & Communication Systems(MCCS-2022) 2. Journal Of Engineering Design and Computational Science (JEDCS) | | | | | | | | | | |
| **Project Competition Participation** | | | | | | 1. UGCON-2022 Project Competition, Dept. of E&TC, PCCOER, Ravet, Pune, 30 May, 2022 | | | | | | | | | | |
| **Any Award/Prize for Project** | | | | | | NA | | | | | | | | | | |
| **PO-PSO Mapping** | | | | | | | | | | | | | | | | |
| **PO1** | **PO2** | **PO3** | **PO4** | | **PO5** | | **PO6** | | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** |
| **2** | **3** | **3** | **3** | | **2** | | **2** | | **3** | **3** | **2** | **3** | **3** | **3** | **3** | **2** |
| **Mapping Levels:** 3: Strongly Mapped, 2: Moderately Mapped, 1: Weakly Mapped | | | | | | | | | | | | | | | | |