**IDP Project Ideas**

**Hardware/ HCI**

1. **Design an IoT based sy system for COB/TOB.**

a. Some exiting system are already available in the state of the art. Besides, limited effort has already been taken by BD Army which needs to be improved.

b. In UN Msn, contg need to go for estb of COB/TOB frequently where sy takes lot of effort and manpower.

c. Unit perimeter, WCT Camp, Temp Camp during depl.

2. **Design an automated human body temp measurement and access control system**.

a. In lt of present COVIT-19 situation, screening of people based on temperature and preserve their record is very importantur Current manual system is very time consuming as well as preservation of data is not poss in most of cases.

b. A pilot project is already in progress at MIST which can be used for all other mil org. Spl, this will be effective in org where outsiders use to visit frequently.

c. Data integration, Report generation and long-term usability and maintenance

3. **Simulators**

* 1. Focus on Course/Cdre for OR
  2. Gp Training

4. **Kote/ Mag Automation**

* 1. Improve the existing system
  2. Remote access and authentication
  3. Report Generation

5. **Access Control System**

* 1. Lot of existing system
  2. Incorporate software and data integration

6. **Design an AI based system for carrying out IPB/DMP**.

* 1. In this process, integration of MO dte, MI dte and specialized org like DSCSC is required.
  2. Implementation of whole process is difficult.
  3. Focus on a small Module.

7. **Stuff Check Preparation**

* 1. Tgt gp: AQ, DQ, QM
  2. Focus on operational spl WCT)

8. **Map Reading**

* 1. Lot of existing attempt
  2. Incorporate civ resources to meet mil req
  3. Focus on small module like Night March system

9. **Veh log book**

1. Will replace the present hard copy.
2. Will provide remainder for routine maintenance.
3. May integrated with workshop system as well.

10. **Personal file management for offrs**

* 1. Maintain all the document (BAO, CORO, PET, RET, Course report, pay and allowance etc.) that officer used to maintain in personal file.
  2. Will generate reports/ provide remainder to event like forward recreation allowance, clean service allowance, up coming courses
  3. Mobile App Personal Uses

11. **News Summarization for Higher Comds**

* 1. Focus gp is Higher Comd
  2. Will present important news related to mil concern.
  3. NLP tools may be used to identify those news through designing a web crawler.
  4. Desktop/ Mobile App