**Chengdu University of Technology Oxford Brookes College**

**Project Module (CHC 6096)**

**Weekly Report Sheet**

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| DATE: | 2022.12.18 |
| Briefly list all the main tasks you accomplished in the week.   1. I have found more papers related to HEC, and have mastered the encryption theory of HEC mathematics. 2. The progress report was completed | |
| Briefly state all the challenges you encountered in the week.   1. After reading more related papers, it is found that ECC encryption algorithm has been able to solve the vast majority of cases, so there is no more mature and better encryption algorithm than it, and the algorithm of the target article has no obvious shortcomings 2. I have mastered the mathematical proof of HEC encryption algorithm, but as for the code implementation of HEC, this technology is too cutting-edge, and many related papers do not have code implementation, and the source code is not open, so it is difficult to write the HEC code. I decided to give up the direction of HEC modifying ECC. | |
| Briefly Plan out the agenda for next week.  1. Find new target papers in the winter vacation, and choose new encryption algorithm as the improvement object, such as RSA encryption algorithm or MD5 encryption algorithm | |
| SUPERVISOR SIGNATURE: |  |