

**School of Computer Sciences**

**CAT301 Research Methods & Special Topic Study**

**Semester 1, 2020/2021**

**Commitment Form**

**Group Information (please follow CAT300 grouping):**

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| Supervisor’s Name: | PROF. MADYA DR. ZURINAHNI ZAINOL | | | | |
|  | | | |  | |
| Group Members (leader’s name should appear first): **GROUP 22** | | | | | |
| **Name** | | | | **Matric Number** | **\* Specialization Code** |
| **JAGATISH A/L NARAYAN RAO** | | | | **141738** | **008K** |
| **DARSHINI A/P SUNDRASIAGARAN** | | | | **143605** | **008K** |
| **RISSHE A/L KUMARAGURU** | | | | **141880** | **008K** |
| **\* Specialization Code:** | |  |  | | |
| 008H: Information Systems Engineering | | 008J: Multimedia Computing | 008N: Distributed Systems & Security | | |
| 008M: Network Computing | | 008K: Software Engineering | 008L: Intelligent Systems | | |

**Special Topic Study:**

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| Topic: | **Power Conservation** |
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| Title: | **Streetlight Monitoring System** |
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| Keywords (3 – 5): | **Sensors, Energy efficiency & conservation, Automation** |
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| Description: |  |
| The project "STREET LIGHT MONITORING" is developed for automatic street lights maintenance which will lead to energy conservation. The application is designed to control the electricity based on light and object's detection. It uses Arduino based automation system to monitor and control lights based on solar rays and also detection of object. We don’t have to manually turn on the street lights and this helps on reducing time consumption and also reduce power consumption. It uses LDR and sensors to detect light and also objects. This will help on automatically on the street lights when a car is passing by. Lights are really important to avoid many accidents which involves citizens, so when this is implemented it can reduce a lot of unwanted complications. We can also monitor the status of the street lights without even going to manually check on them. This will be really useful for everyone in and out of our country. | |

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| Supervisor’s Signature | Zurinahni binti Zainol |  | Date | 28/10/2020 |
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**Note**:

Upload this commitment form with supervisor's signature/initials (in PDF format) to elearning.usm.my. The upload will be performed by the group leader. No hardcopy is required.

**Due date**: Wed 28 Oct 2020, 11:00 pm.