Guidelines for the Selection of Project

Project Complexity

Note: All projects should have a significant portion of software coding and this code should be written by the students by themselves. Use of simulators, templates, CMS, libraries (machine learning, speech, vision, etc) counted as 0% code participation. You can use all these in your projects but that shall not be the counted toward the final project effort. Minimum number of effort from each student of a team should be 10 working hours per week. So if a project team consist of N team members, it should have at least $Y=10*N$ working hour effort. All the tasks done should be logged regularly for the proof.

Project Categories for FYP Session 2017

Software Application:

In this category, students can develop the software applications with the following constraints:

- Application will be developed using the latest technologies (Technologies/versions of those technologies that are announced in the last 3 years).
- Use of any CMS e.g. Wordpress, Joomla etc is not allowed.
- Standalone android application is not allowed unless data is communicated to the server and it has corresponding admin panel.
- Project should have the complexity to be justified as FYP.
- Business Analytics Dashboard is required in this type of application
- UAF: a unique application feature should be mentioned that you want to achieve in comparison of existing application of same domain.
- **Plan of commercialization** is compulsory in this category so that application should earn the user base and revenue.

Research Based Applications:

In this category, project can be further classified into the following subcategories.

- Data Science
- Speech Processing
- Natural Language Processing
- Computer Vision
- Bio-informatics

Following constraints should be observed in this category.

- Students are advised to take at least one relevant course on subcategory.
- Datasets from the local community are preferred. The collection of dataset is not the FYP, it is part of FYP and the collection of local dataset effort shall be counted only

10% to the project. All these dataset should be made public so do not made any collaborations that restrict you to make it available in public space.

- In this category, end product will also be developed. (Latest Technologies are not compulsory). A detail comparison report shall be required that explains how the result have been improved than previous one.
- Plan of submission of research paper to any conference or journal is compulsory in this category.
- The collecting statistics using the simulations or with existing machine learning tools are not sufficient. For example, finding the rules using decision trees with help of some software shall not be acceptable. Similarly, use of simulators is not enough.

Hybrid Category:

In hybrid category, students can select any research domain from the category 2, and commercialize their research idea using the latest technologies.

- All the constraints will be observed in this matter.
- At least one of the KPI from the research or commercialization should be fulfilled.

Deadlines

Following deadlines will be observed in the process of FYP-1.

Task / Document	Deadline
Project Proposal	October 27, 2020
Proposal Presentation	October 28,2020 – October 29, 2020
Design Document	December 15, 2020
Project Presentation	February 01,2021 - February 04,2021