MATSEC Examinations Board

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SEC 33 Design and Technology: Iterative Project 2020

Theme: **Wellbeing through Recreation in the Local Urban Setting**

Document guidelines

- Read carefully the Project Theme which will provide the context to all the situations available.

- Select one of the given situations after briefly analysing the context.

- Use the given specification grids to determine any information that yet requires to be specified.

- State your selected situation on the Iterative Project Grading Criteria document and read carefully the criteria set for all the project.

- The Iterative Project should consist of the Initial Project Proposal and the Final Design Project, as specified in the syllabus document.

Using the specification grid

The specification grid gives a snapshot of the situation, stating the fixed information that needs to be adhered to when developing the project. The level of specification row indicates whether the necessary information has been given in full in a section or if the candidate has further information to input.

	Context	**Environment**	**Need**	**User**
Level of given specification	●○○	●○○	●○○	●●●
	info	info	info	info

For example, if the 'User' has 3/3 specs, then this area is fully specified; however if the 'Need' section only provides 1/3 specs, the candidate is expected to provide, based on his/her own decisions, and within the given theme, this missing specification within the Initial Project Proposal.

Kindly follow the syllabus guidelines on the Initial Project Proposal and Final Project.

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Situation 1

Some elderly people (aged 65+) find it difficult to carry out physical activities for different reasons. Few might lack motivation, others might have some type of physical limitations, or simply cannot find the right activity.

Relating physical wellbeing with memories of their childhood (3-16 years) might encourage such elderly people to start exercising.

Guidelines

Analyse what childhood looked like for the current elderly people as an inspiration to the process of creating an innovative device which encourages them to engage in adequate physical activity through nostalgia.

This device needs to be a working prototype that highlights its benefits for the target users.

	Context	**Environment**	**Need**	**User**
Level of given specification	●○○	●○○	●●●	●○○
Information	Fits elderly lifestyle	Maltese local setting	A device that encourages physical wellbeing through nostalgia	Elderly people

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Situation 2

Many people living in local urban towns and cities have limited space in the homes they rent. This might discourage the uptake of hobbies, which are important for an individual's wellbeing.

A new trend sees consumers highly interested in Do-It-Yourself (DIY) hobbies. Storage and organisation products, which include electronic functions and are easy to store and use, might be attractive products for such consumers.

Guidelines

Identify a marketable DIY activity (e.g. electronics/robotics kits, miniature gardening, art & crafts, etc…) and develop **ONE** physical storage and organisation product prototype which helps users to take up such hobbies and work with ease in a confined space. A minimum of **TWO** electronic functions that enhance the usability of the product should be included.

Note: Solutions need to be freestanding and not permanently installed in such rental accommodation.

	Context	**Environment**	**Need**	**User**
Level of given specification	●●○	●○○	●●○	●○○
Information	Limited space, depending on selected activity	Urban rented homes	Facilitate indoor DIY hobby activities	Potential consumer depending on activity

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Situation 3

There have been several environmental awareness campaigns organised locally throughout the years. Local councils would like to continue raising awareness and target sustainability concepts in public spaces and events, in new ways, through interaction and play.

Guidelines

Identify a particular event held in a public space which attracts many people. Develop a prototype of a playful interactive device as an attraction for such event in an attempt to raise awareness on environmental sustainability. The target users of the device should be specified.

Note: The device needs to include mechanical and electronic aspects.

	Context	**Environment**	**Need**	**User**
Level of given specification	●●○	●●○	●○○	●○○
Information	Unsupervised, standalone, interactive attraction	Busy event in a public urban space	Promote environmental sustainability concepts	Passers-by in public space depending on event