



SEC 33 Design and Technology: Iterative Project 2021

Theme: Embracing Nature in our Lifestyle

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.

Table with 5 columns: Context, Environment, Need, User and a row for 'Level of given specification' showing progress indicators (●○○), and a row for 'Information' showing '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.

Situation 1

Businesses such as pet/fish shops, boarding kennels, etc., have an added struggle to ensure that their living hosts are well cared for, while maximising their commercial activity.

Guidelines

Identify **ONE** such business and produce a suitable device which helps to manage and care for a commercial quantity of animals in a small scale business. This device should be specifically related to a chosen living animal category.

Note: A suitable device refers to a full size working product that can be sold to such businesses. However, this device should be a single repeatable module which the business owners can scale as required. Any scientific facts related to the management and care of animals need to be cited.

	Context	Environment	Need	User
Level of given specification	●●○	●○○	●○○	●○○
Information	Animal or pet related business	Small scale business premises or shop facilities	Manage animals	Personnel and animals

Situation 2

Flora and Fauna enhance the people’s experience when visiting local open spaces such as natural parks, public gardens and other recreational areas.

A local campaign is encouraging young designers to propose ideas that will help to attract and sustain wild fauna to these open spaces.

Guidelines

You are required to produce a standalone working prototype that could be suitable for such public open spaces and does not need constant human intervention. The solution needs to be sustainable and appropriate to the specific local environment chosen.

Note: A suitable working prototype is a functional artefact that shows in full the concept of the solution proposed, while scale and materials used may be only representative. In situations where no scientific facts exist to support the proposed solution, a video should be produced as evidence of its functionality.

	Context	Environment	Need	User
Level of given specification	●●○	●○○	●○○	●○○
Information	Fauna in the local environment	Local open spaces	Attract and sustain wild fauna to enhance people’s experience	The general public and wild fauna

Situation 3

Throughout the ages human beings have developed particular interactions with animals. Some of these interactions include humans adopting animals to assist with particular jobs and activities (e.g. petting farms, agriculture, transportation, sport, etc.) or domestic companionship (pets). Improving the animals' conditions leads to a better human-animal interaction.

Guidelines

Choose and analyse **ONE** specific interaction between people and animals. Identify the needs and care involved in this interaction and prototype a physical product which improves or enhances the experience for both users.

Note: A suitable working prototype is a functional artefact that shows in full the concept of the solution proposed, while scale and materials used may be only representative. In situations where no scientific facts exist to support the proposed solution, a video should be produced as evidence of its functionality.

	Context	Environment	Need	User
Level of given specification	●○○	●○○	●○○	●●○
Information	Human-animal activities	Working and living spaces	Enhance animal conditions and human interaction	Animals and humans