



SRISHTI MANIPAL
INSTITUTE OF
ART, DESIGN & TECHNOLOGY
A Constituent Unit of MAHE, Manipal



MANIPAL
ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)

Undergraduate Professional Program

Summative Assessment ODD Semester 2022–23

Students must read carefully

- General Instructions
- Detailed Instructions in each Paper

Dates: December 5-16, 2022 |

Hours of work: 6 hours per day

WORKING HOURS: 9 am to 12 pm, 1 pm to 4 pm

Course: B.Des (Creative and Applied Computation)

Semester: 5

Context: Regenerating Earth

“We are living on this planet as if we had another one to go to.” — Terry Swearingen

We are in a perilous period of transition and breakdown. Our collective capacity to unite as one humanity will define survival of humanity manifested everywhere through diverse regenerative cultures. Our species needs to make a radical shift in its evolutionary trajectory, evolving into healers rather than violators and exerting a regenerative rather than degenerative influence over the larger community of life and on one another. We can learn from life, and as life itself, we can learn how to meet human needs while maintaining the health of ecosystems and the biosphere's life-sustaining processes.

By and large, our other lives will be characterized by how the individuals who comprehend our worldwide dilemma put together and help another. We are in the midst of a process of planetary change that will last far beyond our lifetime. How can we *design* our way through the struggles that now lie ahead?

Through the interactive and multimedia capabilities of electronic information media, physical computing and big data -- digitized representations can be brought together from multiple sources for awareness and study in a manner determined by the individual user. Your goal is to create an interactive website /app / Data Visualization / robotic object / AR or VR prototype incorporated with elements of new media such as Apps, augmented and virtual reality (AR and VR) technologies, Arduino, Sensors and electronic materials , Kaggle Datasets that encourages and engages the youth and younger generations to bring sustainable future ideas to life.

While working on the tasks given, it is essential to consider the following topics for research and choose **ONE** of the topics given in the list for your prototype and keep this consistent throughout your work.

- Renewable Energy
- Water Conservation
- Electric Transport
- Carbon Emission
- Sustainable Urban Living

Schedule:

TASK 1- Weightage 25%	
5 th December	6 th December
Task 1 A	Task 1 B
On Campus	On Campus
Submission: 4:00pm - Task 1A to be uploaded on Blackboard Journal	Submission: 4:00pm - Task 1B to be uploaded on Blackboard Journal
TASK 2- Weightage 15%	
7 th December	
Task 2	
On Campus	
Submission: 4:00pm - Task 2A to be uploaded on Blackboard Journal	
TASK 3A- Weightage 20%	
12 th December	
Task 3 A	
On Campus	
Submission: 4:00pm - Task 3A to be uploaded on Blackboard Journal	
TASK 3B- Weightage 45%	
13 th , 14 th and 15 th December	16 th December
Task 3 B	Task 3 B
On Campus	On Campus
Submission: 4:00pm - Task 3B- work in progress- to be uploaded on Blackboard Journal	Submission: 4:00pm - Task 3B to be uploaded on Blackboard Journal

Overall Suggested/Recommended/ Required Materials (as applicable, you are free to use other relevant and useful tools and platforms)

1. Software & Hardware – A-Frame, Three.js, P5.js , Python, R programming, Figma, Adobe XD, Arduino , Sensors, Motors & Electronics materials
2. Laptop/ Mac with internet connectivity

Overall Assessment Criteria: Refer to each Task for relevant assessment criteria

All work and work in progress will need to be submitted on a daily basis either on Blackboard or in person as per the instructions in each paper.

A Viva Voce will be conducted between 17 to 23 December 2022, where work completed as per the above schedule is to be presented.