**Pavilion project in Design Studio A: Questionnaire Survey**

**Authors:** Matyas Gutai\*, Garyfalia Palaiologou

*School of Architecture, Building and Civil Engineering, Loughborough University, Loughborough, United Kingdom*

\*Loughborough University, Loughborough, Epinal Way, LE11 3TU, United Kingdom, M.Gutai@lboro.ac.uk

**Pavilion project in Design Studio A: Questionnaire Survey**

**PART I: Evaluation of pavilion project experience**

1. Please evaluate the impact of Pavilion design and construction experience on your *knowledge and understanding* (please tick the relevant box):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Strongly disagree | Disagree | Somewhat disagree | Neutral | Somewhat agree | Agree | Strongly agree |
| The Pavilion project helped me to understand the possibilities of architectural language to satisfy both aesthetic and technical requirements. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project helped me to understand the importance of construction strategy for the design and building process.  | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project helped me to understand tectonics (structural stability, load-bearing capacity, etc.). | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project helped me to understand the physical characteristics of building materials, components and systems.  | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project helped me to understand the role of users and context in the design process (e.g. students or exhibition visitors as users, campus as context). | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

1. Please evaluate the impact of Pavilion design and construction experience on your *intellectual abilities* (please tick the relevant box):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Strongly disagree | Disagree | Somewhat disagree | Neutral | Somewhat agree | Agree | Strongly agree |
| The Pavilion project developed my ability to create a design concept. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to solve design problems. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to apply cost assessment as part of the design process. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to integrate knowledge of structural principles and construction techniques. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to assess and respond to design constraints (e.g. user needs, site and context). | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to appraise design solutions and their potential effectiveness. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

1. Please evaluate the impact of Pavilion design and construction experience on your *practical skills* (please tick the relevant box):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Strongly disagree | Disagree | Somewhat disagree | Neutral | Somewhat agree | Agree | Strongly agree |
| The Pavilion project encouraged me to use scaled models to explore, prepare and present a design concept. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project encouraged me to use freehand sketches and technical drawings in the design process. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to communicate design concepts effectively using oral and visual methods. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to apply research skills and collect information on design precedents. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project encouraged me to use the labs (modelling workshop in Frank Gibb) and handcraft tools. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

1. Please evaluate the impact of Pavilion design and construction experience on your *general transferable skills* (please tick the relevant box):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Strongly disagree | Disagree | Somewhat disagree | Neutral | Somewhat agree | Agree | Strongly agree |
| The Pavilion project developed my time management skills. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my ability to work as part of a team. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my leadership skills. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my interpersonal skills. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project developed my skills on how to pitch my ideas in a group. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

1. Please evaluate the impact of Pavilion design and construction experience on your *personal development* (please tick the relevant box):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Strongly disagree | Disagree | Somewhat disagree | Neutral | Somewhat agree | Agree | Strongly agree |
| The Pavilion project helped me to achieve better performance on the Home project. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project helped me to achieve better performance in Year 2 (leave blank if not applicable). | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project helped me to engage more with the studio and my peers. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project motivated me to attend extra-curricular ‘design & build’ activities (e.g. summer school). | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project improved my professional portfolio, e.g. for job applications (leave blank if not applicable). | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project grew my interest in architecture.  | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

1. Please evaluate your *overall* Pavilion design and construction experience (please tick the relevant box):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Strongly disagree | Disagree | Somewhat disagree | Neutral | Somewhat agree | Agree | Strongly agree |
| The Pavilion project made a valuable contribution to my learning. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| I am eager to participate in a ‘design & build’ project again.  | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| I would be eager to participate more often in ‘design & build’ projects as part of my degree. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| The Pavilion project has been the most valuable academic experience to date. | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

1. Please rank the following learning activities based on their significance in terms of your learning outcomes in design during Year 1 (please tick the relevant box; each score can only be used once):

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Not at all significant | Low significance | Slightly significant | Neutral | Moderately significant | Very significant | Extremely significant |
| Model making for design projects | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Construction details | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Lab experiments (e.g. tectonics)  | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Digital 3D modelling (building projects in virtual environment) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| Pavilion project (construction only) | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |

1. Please select the RIBA learning criteria that you believe are relevant to the Pavilion project (you can tick more than one and up to three items)

|  |  |
| --- | --- |
| ☐ | Ability to create architectural designs that satisfy both aesthetic and technical requirements. |
| ☐ | Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale. |
| ☐ | Understanding of the profession of architecture and the role of the architect in society (i.e. professionalism, role of the architect within the design team, impact of building projects on communities). |
| ☐ | Understanding of the methods of investigation and preparation of the brief for a design project (e.g. review precedents, specify scale and scope, input from other professionals) |
| ☐ | Understanding of the structural design, constructional and engineering problems associated with building design. |
| ☐ | Adequate knowledge of physical problems and technologies and the function of buildings so as to provide them with internal conditions of comfort and protection against the climate. |
| ☐ | The necessary design skills to meet building users’ requirements within the constraints imposed by cost factors, performance standards and health and safety requirements. |

1. Please provide five keywords on key benefits you identify in the Pavilion project.
2. Please provide five keywords on key disadvantages you identify in the Pavilion project.

**PART II: Background Information**

1. Please specify your current year of study:

|  |  |
| --- | --- |
| ☐ | Year 1 |
| ☐ | Year 2 |
| ☐ | Year 3 |

1. Please specify the pavilion project you participated in:

|  |  |
| --- | --- |
| ☐ | Perspectives (2017-18) |
| ☐ | Transformer (2018-19) |
| ☐ | Seed Bombs (2019-20) |

1. Please specify your involvement in the pavilion construction phase:

|  |  |
| --- | --- |
| ☐ | Low (1 day or less) |
| ☐ | Medium (2 days) |
| ☐ | Intensive (4-5 days) |
| ☐ | I don’t remember / prefer not to say |