003 Technology

003

Technology 01_02_03

Overview

The technology modules progressively develop students' understanding of architectural technology in relation to design. **Technology 1** introduces the fundamentals of structural design, material selection, construction methods, and building services. Delivered through lectures, site visits, and workshops, it foregrounds sustainable design principles and contextualises construction within the broader industry framework.

Technology 2 advances this foundation by exploring the integration of systems within more complex buildings. It emphasises performance, comfort, detailing, and the interrelationship of technological elements in multi-user environments. The module encourages research and experimentation, with sustainability positioned as a critical ethical lens in the development of technical design propositions.

In the final year, **Technology 3**: **Integrated Design Audit (IDA)** enables students to demonstrate the synthesis of professional knowledge within their design projects. The module supports integration across key domains — environment, structure, materials, construction, energy, and professional practice, through studio based enquiry and specialist-led seminars. It replicates interdisciplinary collaboration, reflecting the realities of contemporary architectural practice and fostering both critical judgement and technical fluency.

Tutors

Technology 01
Shamoon Patwari (Module Lead)
Bo Tang

Technology 02
George Fereday (Module Lead)
James Payne

Technology 03
Sian Moxon (Module Lead)
George Fereday
Peggy Le Cren

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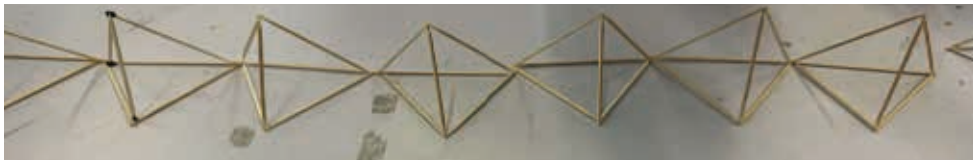
Fig 01: *Newspaper Structure*, Pedro Tejada
Fig 02: *Monolithic Structure diagram*, Ghazi Akkari

Fig 03: *Bamboo Cube,* Yr.1 Students
Fig 04: *Newspaper Structure*, Yr.1 Students



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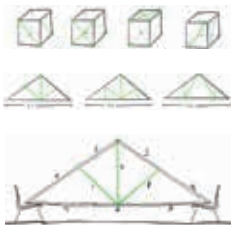

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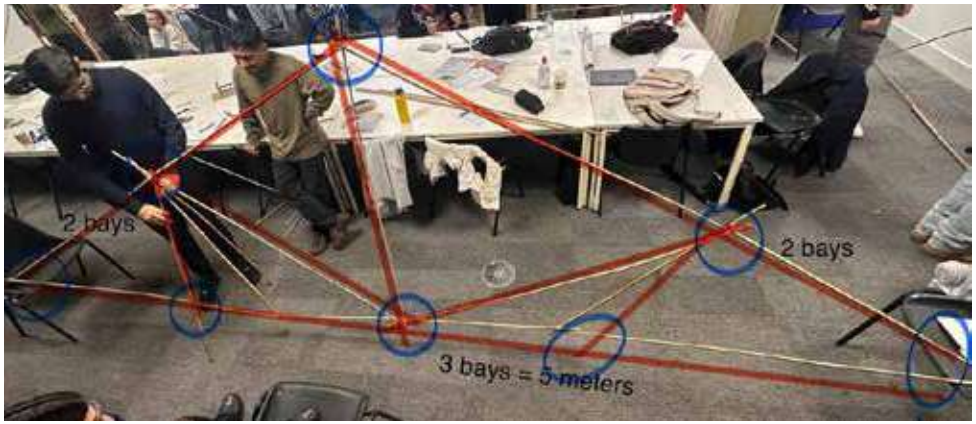

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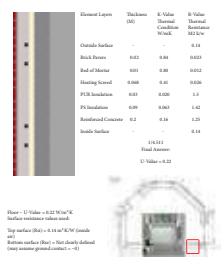
Fig 01: *Lean Structures,* Pedro Tejada
Fig 02: *Bamboo Joints*, Nureen Nusrat
Fig 03: *Lean Structures Challenge,* Nureen Nusrat

Fig 04: *Roof Truss Diagrams*, Pedro Tejada
Fig 05: *Lean Structures*, Kiana Ebrahimy
Fig 06: *Testing Pitched Trusses*, Yr.1 Students



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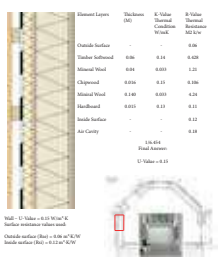

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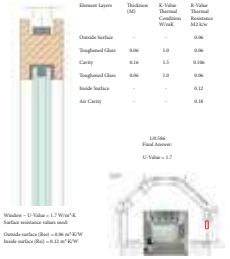

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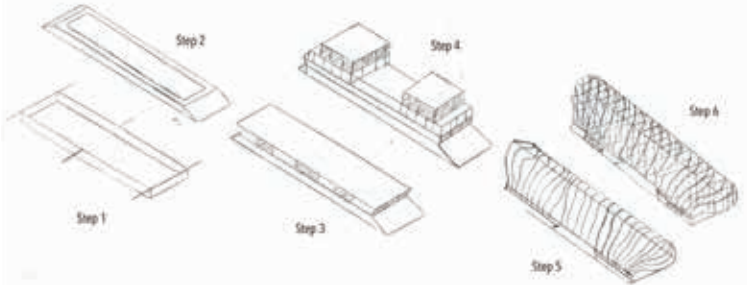

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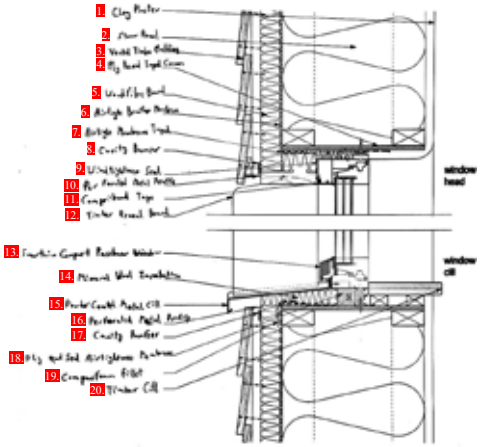

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Fig 01: *Floor U-Value Calcs*, Ghazi Akkari
Fig 02: *Wall U-Value Calcs*, Ghazi Akkari
Fig 03: *Window U-Value Calcs*, Ghazi Akkari
Fig 04: *Roof U-Value Calcs*, Ghazi Akkari

Fig 05: *Stages of assembly*, Kiana Ebrahimy
Fig 06: *Sequence of construction*, Pedro Tejada
Fig 07: *Precedent Study,* Ghazi Akkari
Fig 08: *Detail Sudy,* Ghazi Akkari

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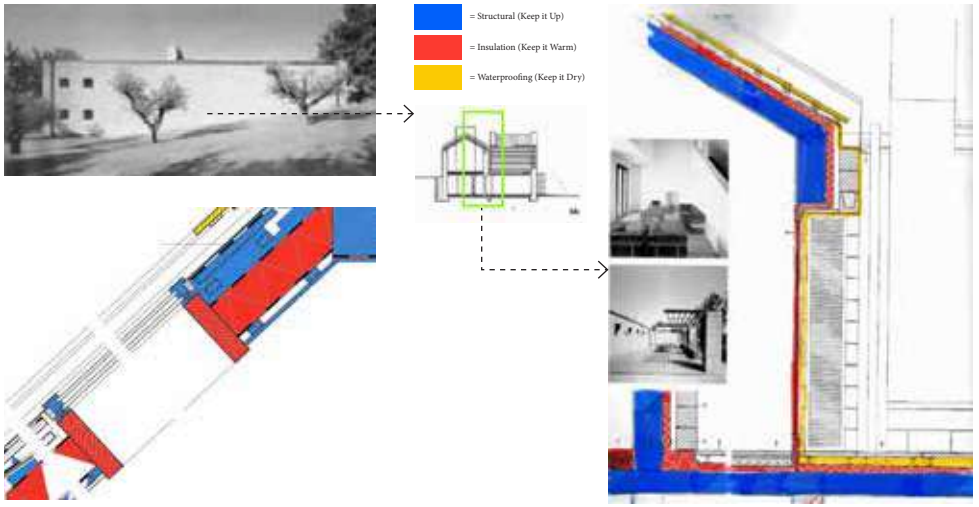

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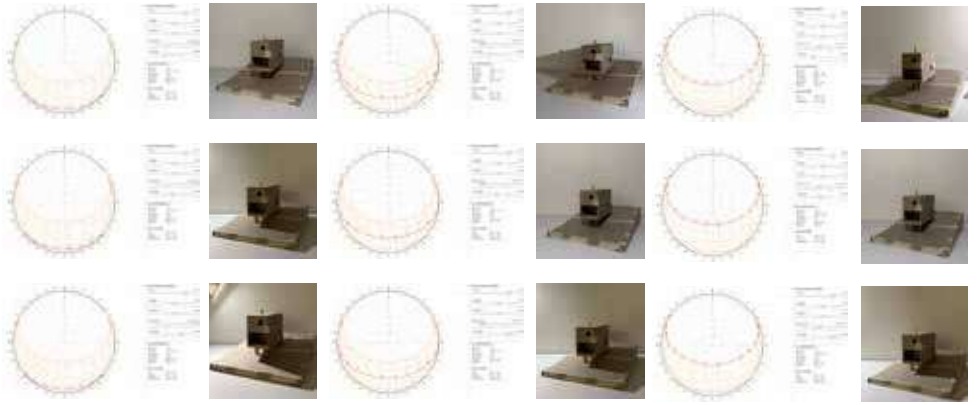

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Fig 01: *Envelope task*, Ghazi Akkari
Fig 02: *Solar Studies*, Ghazi Akkari

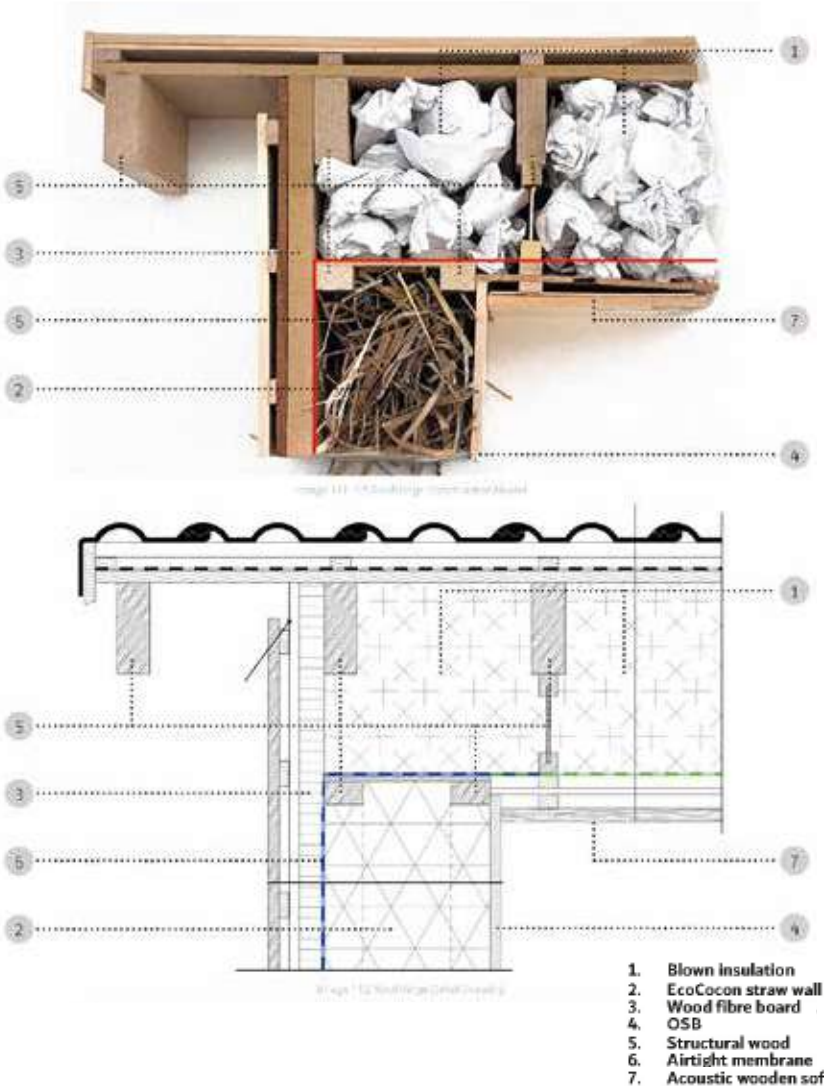

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Fig 01: *Roof Verge detail and 1:5 Physical Model,* Kesena Ivego-Amaiyo

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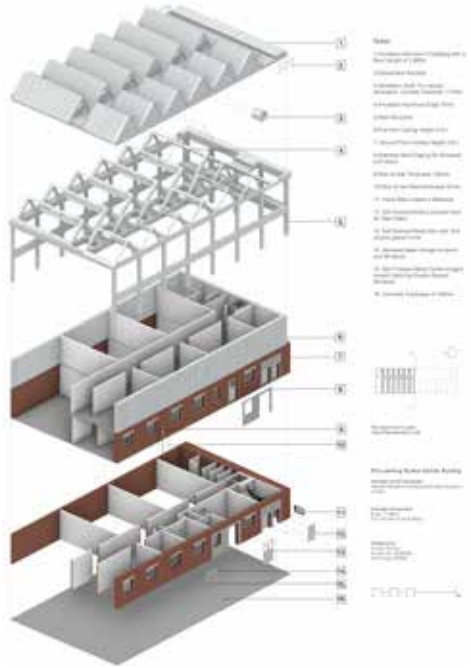
Fig 01: *1:5 Roof Verge Physical Model,* Olha Savchuk
Fig 02: *1:5 Physical Model*, Yuliana Oleksiuk
Fig 03: *1:5 Physical Model,* Klodjan Bahcja
Fig 04: *1:5 Physical Model,* Roxana Mihali
Fig 05: *1:5 Physical Model*, Duxela Nascimento



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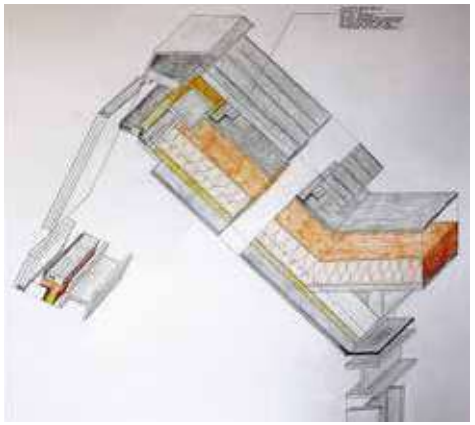

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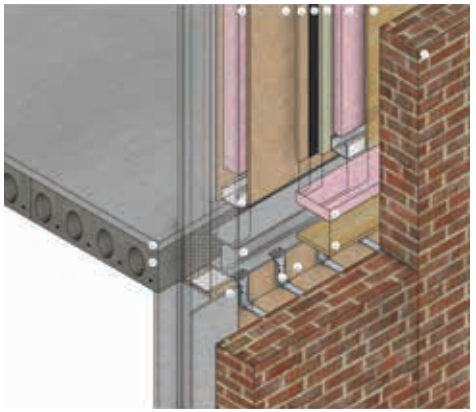

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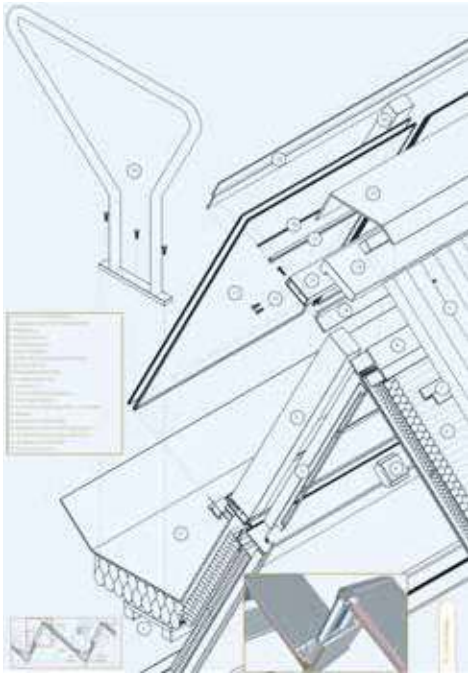

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Fig 01: *Exploded Axonometric*, Ahmed Armaan
Fig 02: *Floor to Wall Junction*, Salma Chbani
Fig 03: *Exploded Roof Axo*, Frank Coulthard
Fig 04: *Exploded Axonometric*, Klodjan Bahcja

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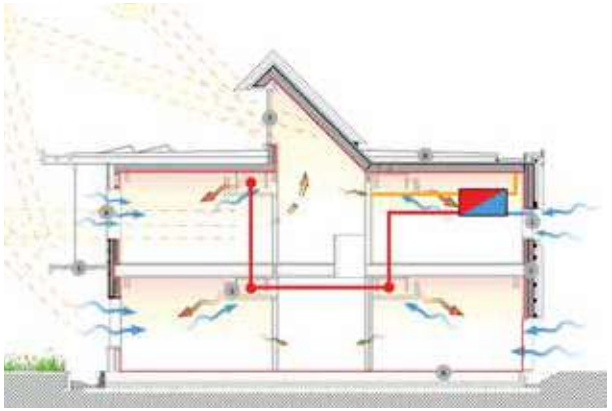

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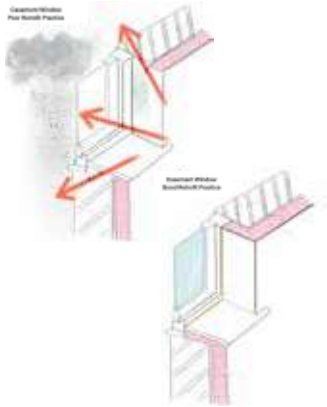

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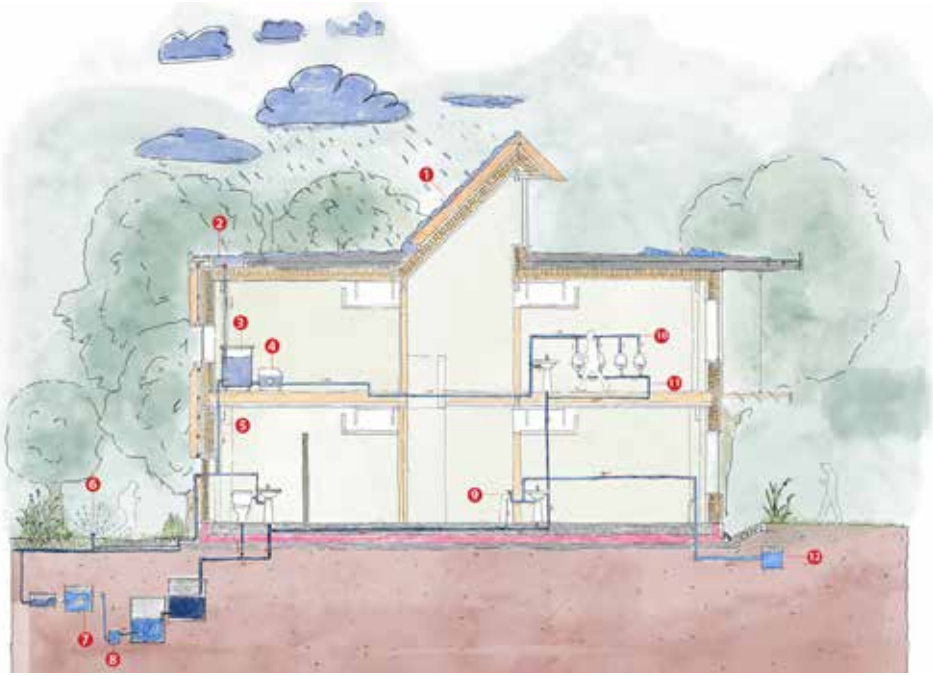

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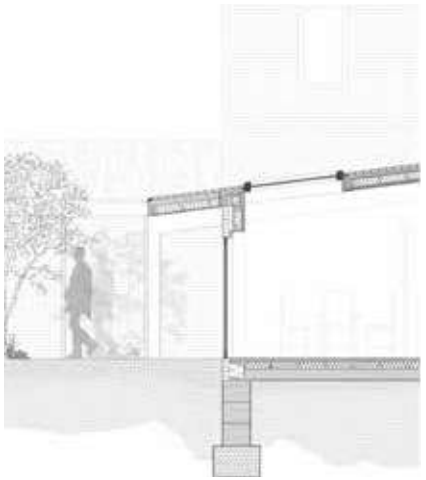
Fig 01: *Services Section*, Meklajt Koro
Fig 02: *Retrofit Best Practice*, Salma Chbani
Fig 03: *Services Section*, Beniamin Marin



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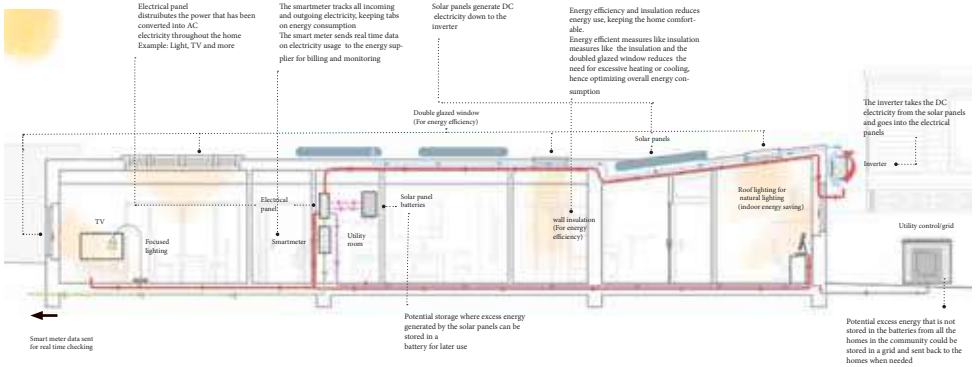

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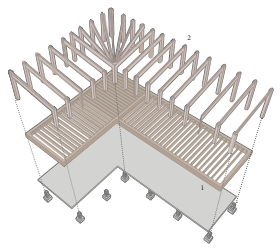

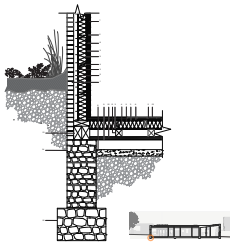

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Fig 01: *Bay Section and Elevation*, Pauline Mouala
Fig 02: *Lighting and Energy*, Pauline Mouala
Fig 03: *Accessibility Diagram,* Pauline Mouala
Fig 04: *Exploded Isonometric,* Pauline Mouala
Fig 05: *Foundation Detail,* Pauline Mouala

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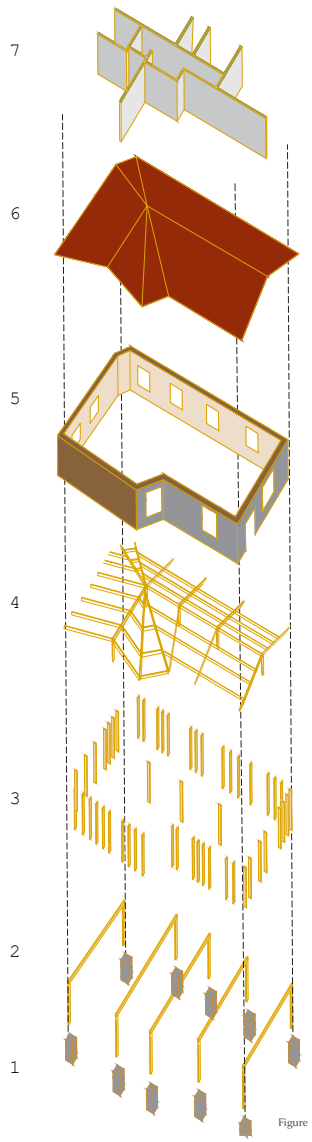

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Fig 01: *Physical Model*, Maite Sanchez
Fig 02: *Segal's Structural Model*, Maite Sanchez
Fig 03: *Exploded Axonometric*, Maite Sanchez

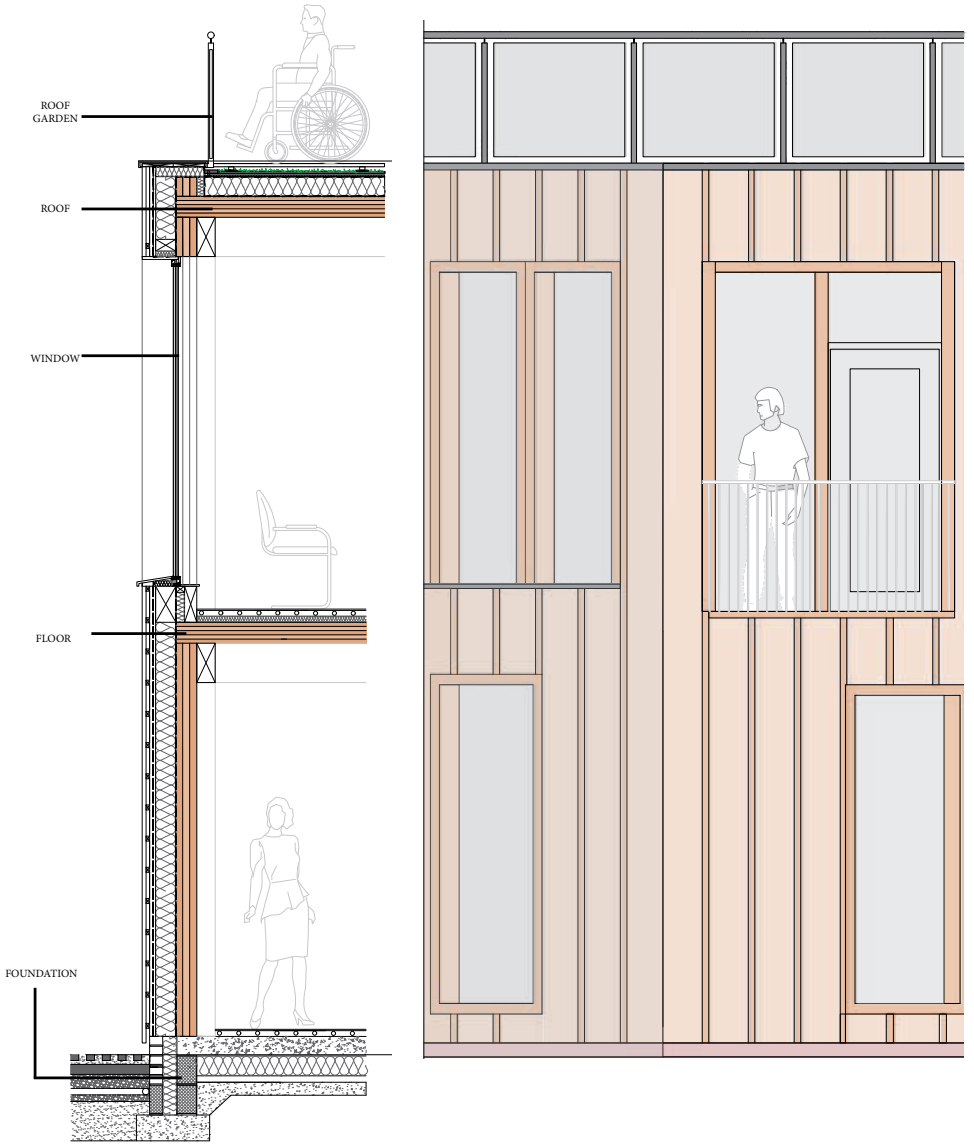

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Fig 01: *Bay Elevation and Section*, Lydia Fernandes

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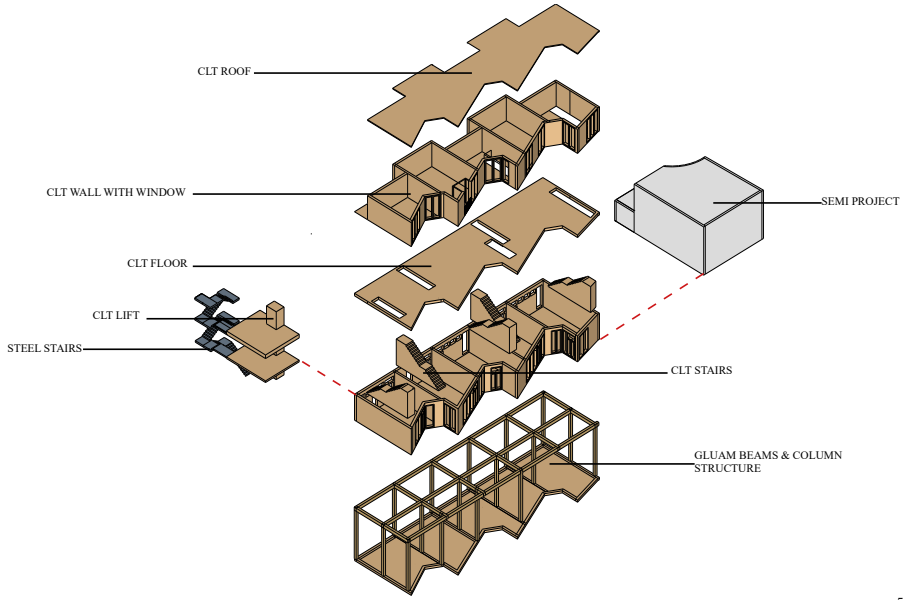

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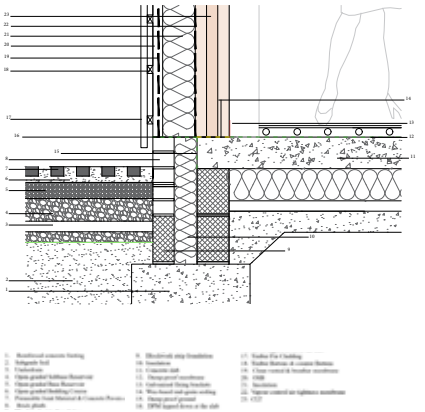

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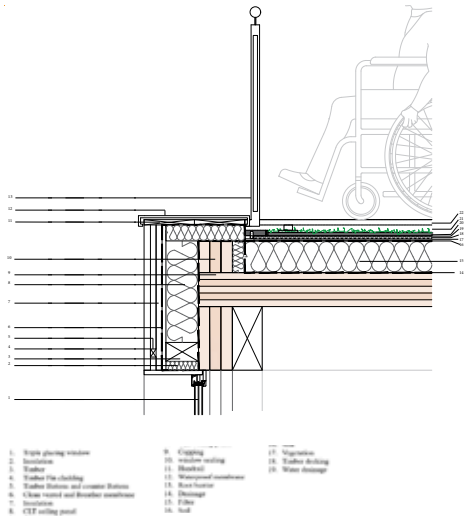

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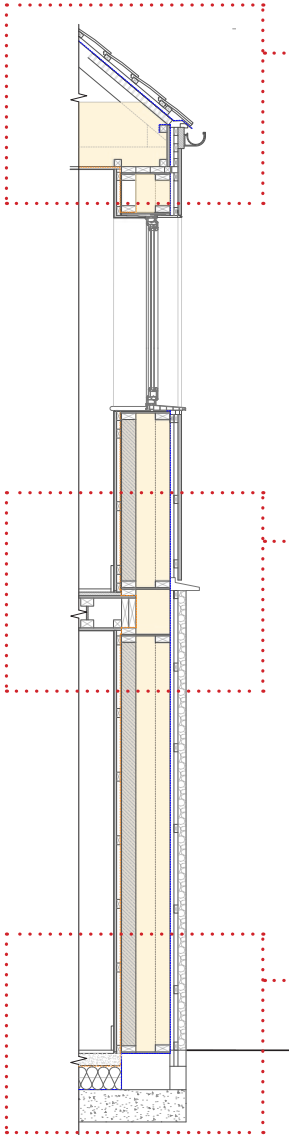
Fig 01: *Exploded Axonometric*, Lydia Fernandes
Fig 02: *Foundation Detail*, Lydia Fernandes
Fig 03: *Roof Detail*, Lydia Fernandes



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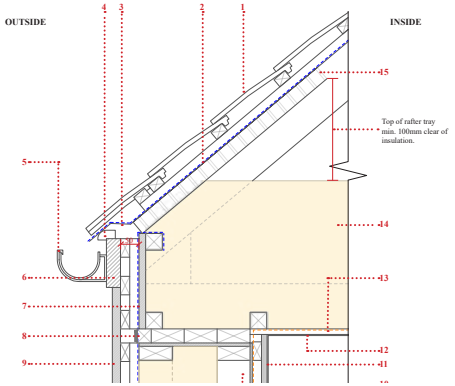

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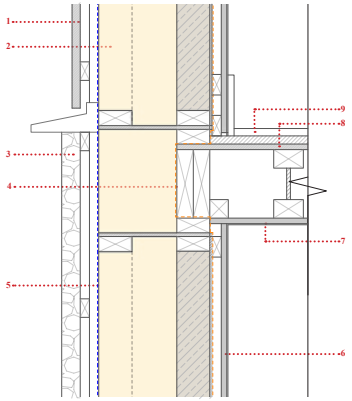

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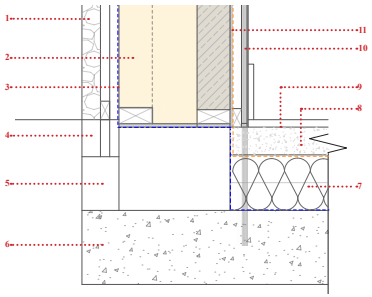

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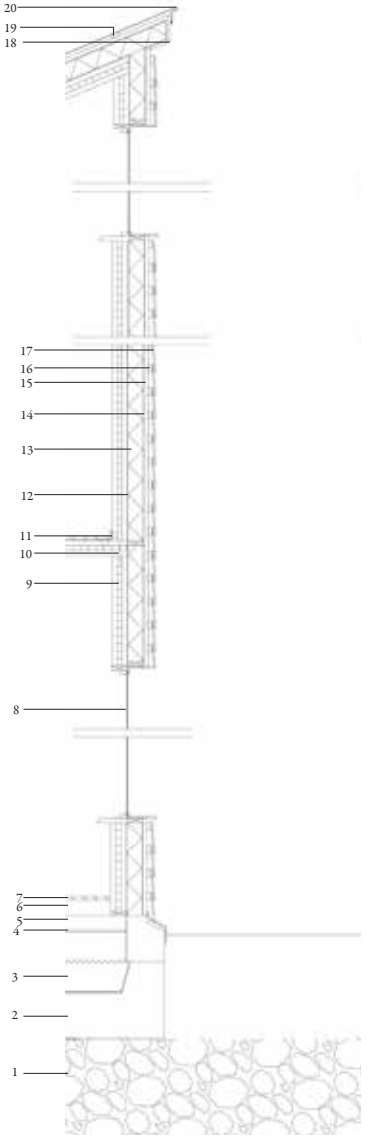
Fig 01: *Bay Section*, Elena Constandache
Fig 02: *Wall-Roof Junction*, Elena Constandache
Fig 03: *Inter. Floor Detail*, Elena Constandache
Fig 04: *Wall-Foundation Detail,* Elena Constandache

003 Integrated Design Audit



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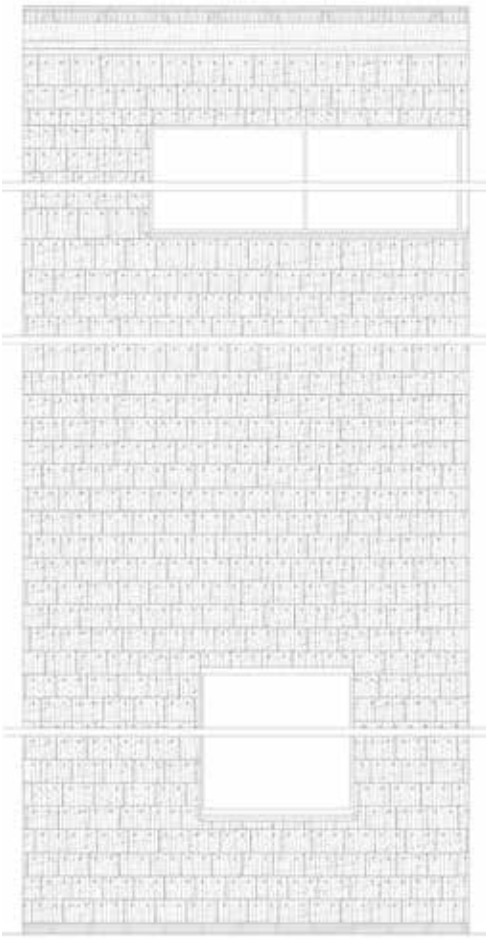

1. Gravel base
2. Foundation mixed with GGBS >500mm
3. EPS foam blocks
4. Damp proof membrane 6mm
5. GGBS floor slab 100mm
6. Wood fibre board insulation 100mm
7. Floor wood planks
8. Triple glazed window
9. CLT structural board 100mm
10. Self tapping structural screw
11. Steel L bracket
12. Vapour barrier 6mm
13. Wood Fibre Board Insulation 100mm
14. Breather membrane 6mm
15. Vertical battens 25 x 50 mm
16. Horizontal battens 25 x 50 mm
17. Timber shingles cladding
18. Timber planks
19. Roof battens 25 x 50 mm
20. Zinc roof

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Fig 01: Bay Section, Adrianna Drudz
Fig 02: Bay Elevation, Adrianna Drudz

004 Critical & Contextual Studies

004

Overview

Critical and Contextual Studies (CCS) is structured in two thematic blocks across Years 1 and 2: History and Theory, and Professional Practice.

Across Years 1 and 2, CCS develops students' understanding of architectural history, theory, and professional practice within broader cultural, social, and ethical contexts.Weekly lectures and seminars expose students to diverse topics, themes, and examples of architectural practice, fostering the development of their individual interests. This provides students with a foundation that supports the development of an independent, research-led dissertation in Year 3.

In Year 3 students develop an extended dissertation on a debated theoretical, historical, or technical topic. Supported by seminars, it emphasies rigorous research, coherent argumentation, and ethical practice, allowing diverse presentation formats including primary research or fieldwork.

Tutors

Critical & Contextual Studies 01
Adeyemi Akande (Module Lead)
Hector Arkomanis
Peggy Le Cren
Jen Ng

Critical & Contextual Studies 02
Peggy Le Cren (Module Lead)
James Payne
Adeyemi Akande
Danielle Hewitt

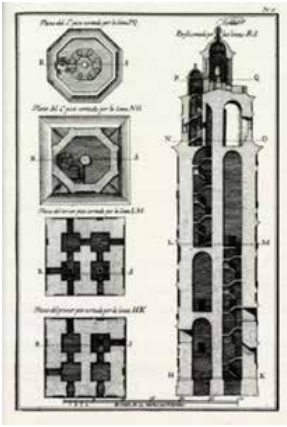
Critical & Contextual Studies 03
Hector Arkomanis (Module Lead)
Adeyemi Akande
Danielle Hewitt

004

CCS 01_History & Theory

System and Elements of Ancient Roman Architecture outside Rome: The Tower of Hercules.

by Ejies Eremiokale



This essay examines the fundamental similarity between Roman and Classical Greek architecture while highlighting the innovative modifications in the former with special reference to the architectural orders and vault systems.

Using the Tower of Hercules, located in Galicia, North of Spain as a case study, the essay discusses the innovations intended to guarantee stability, utility, and aesthetics in the Roman world. The tower, which is still accessible to the public was made to honour the tenth labour of Hercules, the Roman mythological character. This structure provides us with elements that help us understand Roman belief, and how closely intertwined their gods were with everyday living.

The Sebasteion: A Dive into Aphrodisias' Julio-Claudian Cult Complex

by Nureen Nusrat

This essay explores the Sebasteion — a resplendent temple complex dedication to the Julio-Claudian emperors, honouring and commemorating their political, military and social achievements. The Sebasteion is located in the historic Caria region in western Asia Minor, today's Anatolia in Turkey.

The essay investigates the manners in which the complex mirrors broader Roman historical narratives and how these legacies form our understanding of the Roman Empire. It also argues for the significance of the structure both architecturally and politically, and offers insight into the Roman Empire's ideology on infrastructure and the impact it has on the cultural landscape of a settlement.

004

CCS 01_Professional Practice

Canopy Project

Group: David Vlad, Denera Dyrma & Kiana Ebrahimy

Figure 4: Poster, Author's own

Poster by Kiana Ebrahimy

This project presents a visionary architectural practice set to launch in 2035 in Farringdon, London. Founded by a team of three students, it is designed as an Employee Ownership Trust built around the core principles of sustainability and ethical development.

The practice aims to grow into a 40-person team specialising in delivering net-zero carbon homes through circular construction methods and a strong commitment to social responsibility.

ArchiNova

Group: Chrysanthi Gkerveni, Ghazi Akkari, Giuliano Bastianelli, Lea Jaffar&Pedro Quispe

Poster by Ghazi Akkari

ArchiNova is an architectural practice founded by five students, envisioned for 2030.

Structured as a cooperative society, it promotes democratic ownership and collective decision-making, with a focus on delivering high-end residential architecture tailored to individual clients. The practice places emphasis on educational outreach, including apprenticeship programs to support the next generation of architects.

004

CCS 02_History & Theory

French Colonial Urbanism in Morocco: Designing Domination
by Salma Chbani

Islamic civilisation reached its pinnacle during the Andalusian period (711-1492 AD). The Moors - North African Muslims who ruled Iberia until their expulsion - took deep pride in their illustrious Andalusian past, remaining fiercely dedicated to preserving this legacy. Their profound and unwavering cultural attachment were not mere preference, but fundamental to their very identity.

This essay looks at the colonial period (1912–1956) in Morocco's history and examines how French rule abruptly reshaped centuries-old traditional urban fabric which was characterised by organic, local forms. Further, the essay looks at how the French rule resulted in the emergence of a modern order, the "Arabisances", an ideology that stood in deliberate contrast to the historic core, while silently asserting colonial authority through urban design.

The evolution of Le Corbusier's vision of Modern Architecture from functionality to monumentality
by Armaan Ahmed

Charles-Edouard Jeanneret, also known as Le Corbusier, was an influential Swiss Architect whose work was considered a cornerstone for modern architecture. Corbusier's architectural philosophy emphasized functionalism, minimalism, and modernity. Le Corbusier expressed his belief that architecture should serve the practical needs of its users. His phrase: "A House is a machine for living" best described this.

Although Le Corbusier's early work, such as Villa Savoye was deeply rooted in functionalism, over time his focus evolved toward a more urban and collective approach to architecture. This essay investigates the factors that influenced such a dramatic evolution in Corbusier's architectural thinking. It explores the central question, what inspired or necessitated this shift in Le Corbusier's work?

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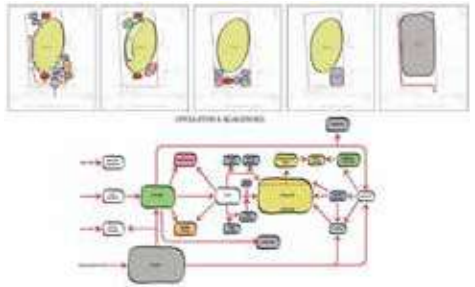
CCS 02_Professional Practice

Cambridge Central Mosque Marks Barfield Architects
by Salma Chbani



Salma's interest in buildings with similar purposes but diverse cultural iconography led her to study the Cambridge Central Mosque by Marks Barfield Architects.

Through her research on project briefing, planning legislation, procurement, community engagement, sustainability targets, and CDM regulations, Salma discovered that these spaces are not only functional, but also embody complex cultural narratives and identities.

Town House, Kingston University Grafton Architects
by Kesena Amaiyo

Kesena selected the Town House at Kingston University by Grafton Architects to examine the design of a university building that fosters an 'open door' policy with the local community.

Kesena highlighted the complexity of the planning process, noting how early consultations informed the design's massing and scale. Through thorough research into key project members, Kesena gained valuable insights into the project's successful development.

Architecture as the Mediator of Identity: Brazilian Modernism and Cultural Identity in the Works of Oscar Niemeyer and Lina Bo Bardi

by Jonatas Geremias E Silva

(Excerpt) In postcolonial Brazil, modernist architecture emerged as both a declaration of independence and a vehicle for cultural expression. This dissertation examines the works of Oscar Niemeyer and Lina Bo Bardi, whose architectural practices bridged the global ethos of modernism with the unique complexities of Brazilian identity.

This study investigates how their architectural practices integrated environmental, social, and cultural contexts. Drawing on theoretical frameworks such as Plato's notion of collective identity, Lawrence Vale's work on architecture and national pride, and brasilidade, the research unravels how these architects reshaped Brazil's cultural narrative.

The Sarcellisation des Nouvelles Villes: Failed urbanisation and stigma in Paris' Great Crown in the 1970s

by Elizabeth Ferial

(Excerpt) Bofill likens the experience of his Espaces d'Abraxas estate to watching a play: "Daily life, ordinarily banal, subsequently becomes a performance [...] nothing is equal to the show of a crowd putting on a show."

His project seems to obscure the reality of life in Noisy-Le-Grand. Similarly, the media cycle portrays these estates as dangerous incubators for violent crime; journalists' focus on tragedies and riots befalling local communities negatively impact areas with an already dodgy reputation, exacerbating their isolation from the capital. This dissertation investigates les Nouvelles Villes, 'New Cities', designed and built around Paris in the 1970s and 1980s, and the planning decisions that may have contributed to their failure.

004 CCS 03_Dissertation

Climate change and coastal displacement: How Florida's hurricanes threaten communities' sense of belonging.

by Adrianna Julia Druzdz

(Excerpt) Over the past decade climate change and its impacts have become one of the biggest and most serious challenges that define 21st century. Its most immediate and apparent consequences are extreme weather conditions that include hurricane events, and coastal low- lying regions are those most exposed to the crisis.

The dissertation focuses on Florida with its dense population and winding coastline which serves as a substantial case study that explores the human toll of climate change. Past the material and physical devastation that hurricanes cause, they also threaten something more abstract but equally fundamental: the sense of identity and belonging that roots communities to their homes and heritage.

Graveyard Systems: Challenging Death Design

by Elisheva Epstein

(Excerpt) In London's Highgate Cemetery, an ivy-covered angel emerges from a tangle of vegetation, its weathered stone partially hidden beneath a verdant cloak. This scene exemplifies the complex relationship between human design and natural processes that lies at the heart of this dissertation.

While the conventional view sees this as nature's disorder, this research proposes a different perspective: natural growth creates sophisticated patterns of organisation, offering valuable insights for contemporary landscape design. The dissertation explores the Victorian-era 'Magnificent Seven' cemeteries — built to address overcrowding and reflect British society's relationship with nature.

005 Research & Events

Overview

Our second and third-year architecture students are supported by numerous established practices across the city. Practice placements offer students the opportunity to apply their university acquired knowledge and skills in a professional environment, which fosters a holistic understanding of the profession in context and provides valuable real-life experience.

These placements support the development of practical expertise and enhance students' preparedness for their future careers.

Several of our students have secured employment with the same practices where they completed their work experience

We extend our gratitude to all featured companies for their continued support.

Allies and Morrison
Architecture for London.
ARUP
Ash Sakula Architects
Assael
bell phillips
CONRAN+ PARTNERS
Eric Parry Architects
FEILDEN FOWLES
fletcher priest architects
Gensler
HAPTIC
Ingleton Wood
jestico + whiles
lsi
Medical Architecture
Pierre d'Avoine Architects
rivingtonstreetstudio
Rawdesign
Stiff + Trevillion
Studio FIFTYONE
TIM GREATREX
VITA
WW+P

005 Practice Placements

01

02

03

04

05

Fig 01: Chiara Nutile, Yahiya Khan, LSI Architects
Fig 02: Joshua Olarewaju, Kousha Sahranavard, Bell Phillips Architects
Fig 03: Laksitha Sivanandarajah, Raw Design
Fig 04: Luiz Toniolo, ARUP
Fig 05: Chloe Mawette, Daneil Espinoza, Haptic Architects

01

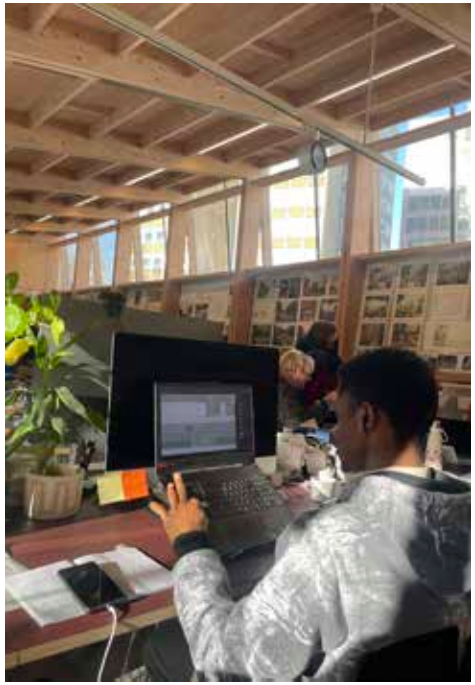


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Fig 01: Elena Constandache, Jack Elliott, Eric Parry Architects
Fig 02: Israel Solomon, Fielden Fowles

005 Practice Placements

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Fig 01: Jonatas Silva, Lydia Fernandes, Gensler
Fig 02: Lydia Fernandes, Rivington Street Studio
Fig 03: Valentyna Iakovleva, Jestico + Whiles
Fig 04: Chiara Nutile, LSI Architects

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Fig 01: Michal Larysz, ARUP
Fig 02: Lydia Fernandes, Rivington Street Studio
Fig 03: Anca Pertu, Haptic Architects
Fig 04: Rilwan Ibrahim, Raw Design

005 Practice Placements

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Fig 01: Jack Elliott, Eric Parry Architects
Fig 02: Michal Larysz, ARUP
Fig 03: Sheroek Taha, Studio DA

01

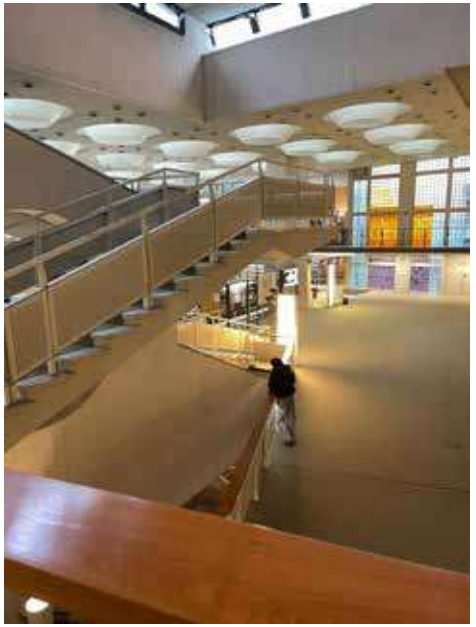

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Fig 01: Studio 3 outside Le Corbusier's Sainte Marie de La Tourette in Lyon, France.
Fig 02: Studio 2 students inside in the Philharmonic in Berlin, Germany. Designed by Hans Scharoun.
Fig 03-04: Studio 5 visited ancient theatres designed by Dimitris Pikionis in Athens, Greece.

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Fig 01: Studio 1 students outside Peter Zumthor's Kolumba Museum in Cologne, Germany.
Fig 02: Studio 4 students meeting with local architect Graham Burgess in Frome, Somerset, England.
Fig 03-04: Studio 4 students in Frome, Somerset, England.

007

Workshop

The Clearing, Lesnes Abbey Woods

01

02

03

Fig 01-03: *Second-year students participating in the live build workshop*, led by tutors George Fereday and James Payne.

007

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Workshop

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London, Let's Get Rewild

by Siân Moxon and Dr Justin Webb

London, Let's Get Rewild is a campaign encouraging Londoners to rewild their gardens. It aims to tests what type of messaging best engages residents, as part of the Wild Ways study.

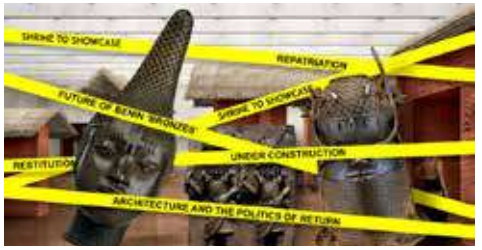
As urban gardens lose a significant amount of green space annually, Wild Ways aims to understand and influence urban-rewilding behaviour by residents to help tackle the biodiversity crisis. The project combines architectural design research with behavioural science, and is funded by the Arts and Humanities Research Council and Kusuma Trust.

The study emerged from the design-led Rewild My Street toolkit, which London, Let's Get Rewild urges residents to join for free, ongoing support. Sign up today to help London get wilder: rewildmystreet.org/letsgetrewild

008 Staff Research Outputs

(De)centering Architecture in the Debate on Repatriation of artefacts to Africa

by Dr. Adeyemi Akande



Focusing on the Benin 'bronzes' as model, this study examines the role of architecture in the framework of repatriation. It attempts the key question – is architecture a centrality, or a distraction to the process of repatriation, and how will the process of repatriation be affected if architecture is decentered? The work which is funded by the RIBA research fund queries not just the people's understanding of museum systems, but the museum's understanding of the people especially in the rapidly evolving cultural matrix of Nigeria. Further, no thought has yet been offered on post-repatriation and the future of the 'bronzes' in the fragile socio-political, ethical, and economic realities of the receiving country. Using a combination of secondary and primary data to establish patterns of heritage management, this study will attempt predictions on how the political, sociocultural, and religious structures of the Nigerian system will react to, and define the trajectory of the future of repatriated Benin artefacts.


QUESTIONNAIRE

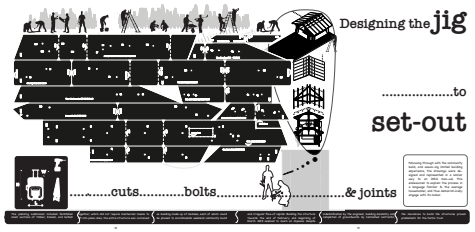
RESTITUTION OF BENIN BRONZES TO NIGERIA

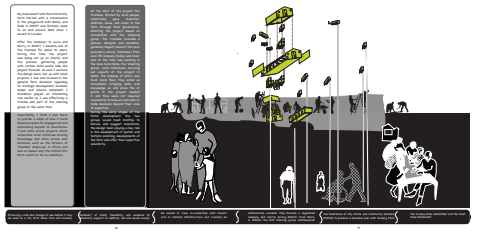
008

Staff Research Outputs

Socio-spatial Practices of Well-being

by Jane McAllister





'*Socio-spatial Practices of Well-being*' research focuses on city farms and their role in supporting the well-being of local communities.

These self-governed initiatives depend on gifting land and labour and are established by local stewards in response to the fragmentation of their neighbourhoods. The research ethnographically examines the farms through their various levels of involvement, defined by site and setting, people and place-making, communities and affordances, institutions and policymaking.

These elements are articulated through the co-production of storytelling and cartooning between farm workers, volunteers, and Jane. As part of the narrative research, we have created portfolio toolkits of good practice in graphic tales.

A1

BA Architecture Team

Key Contacts

Head of the School of Art, Architecture and Design	Anne Markey (a.markey@londonmet.ac.uk)
Head of Architecture:	Kaye Newman (k.newman@londonmet.ac.uk)
Deputy Head of Architecture:	Nate Kolbe (n.kolbe@londonmet.ac.uk)
BA Course Leaders:	Jane McAllister (j.mcallister@londonmet.ac.uk) Peggy Le Cren (p.lecren@londonmet.ac.uk)
First Year Coordinator:	George Fereday (g.fereday@londonmet.ac.uk)
Year 1 Module Leaders	
AR4001 Design Skills:	Peggy Le Cren (p.lecren@londonmet.ac.uk)
AR4002 Design Project:	George Fereday (g.fereday@londonmet.ac.uk)
AR4003 Technology 1:	Shamoon Patwari (s.patwari1@londonmet.ac.uk)
CP4012 CCS:	Adeyemi Akande (a.akande@londonmet.ac.uk)
Year 2 Module Leaders	
AR5001 Design Skills:	Jane McAllister (j.mcallister@londonmet.ac.uk)
AR5002 Design Project:	Jane McAllister (j.mcallister@londonmet.ac.uk)
AR5003 Technology 1:	George Fereday (g.fereday@londonmet.ac.uk)
CP5012 CCS:	Peggy Le Cren (p.lecren@londonmet.ac.uk)
Year 3 Module Leaders	
AR6001 Design Skills:	Jane McAllister (j.mcallister@londonmet.ac.uk)
AR6002 Design Project:	Jane McAllister (j.mcallister@londonmet.ac.uk)
AR6003 Technology 1:	Sian Moxon (s.moxon@londonmet.ac.uk)
CP6012 CCS:	Hector Arkomanis (h.arkomanis@londonmet.ac.uk)
Year 2 & 3 Studio Tutors	
Studio 01:	Holly Jean Crosbie, Kieran Wardle & Owain Williams
Studio 02:	Colin O'Sullivan & Charlotte Harris
Studio 03:	Jane McAllister & Andy Houlton
Studio 04:	Fran Balaam & Ingrid Petit
Studio 05:	Theo Thysiades & Adam Webster

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