# AOU Architecture — Student Handbook (Part I)

B.Sc./B.Arch · ARCON pathway · Design studios, technology, heritage & assessment

**AKPAKIP ORO UNIVERSITY (AU)**

**Oro Nation, Akwa Ibom State, Nigeria**

**FACULTY OF ENVIRONMENTAL SCIENCES**

**DEPARTMENT OF ARCHITECTURE**

**STUDENT HANDBOOK**

**PART I**

**B.Sc./B.Arch Architecture**

(with Architectural Technology, Heritage Conservation, Urban Design and Sustainable Design Specialisation Tracks)

**Your Guide to Courses, Weekly Topics, Design Studios, Coursework and Assessment**

**Academic Structure: Five Years / Ten Semesters**

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## A. Welcome, Programme Goals and What You Will Achieve

### A.1 About This Handbook

This handbook is your guide to the B.Sc./B.Arch Architecture programme at Akpakip Oro University. It is built on the Nigerian Universities Commission (NUC) Core Curriculum and Minimum Academic Standards (CCMAS) for Architecture and is designed to prepare you for professional registration with the Architects Registration Council of Nigeria (ARCON), and, should you choose, further validation with the Commonwealth Association of Architects (CAA), RIBA or equivalent international bodies.

Teaching follows Outcome-Based Education (OBE), centred on the design studio as the integrating activity of the curriculum: every course, weekly topic and assessment is designed to build toward the outcomes below.

### A.2 What You Will Be Able to Do By Graduation (Programme Educational Objectives)

**Within three to five years of graduating, you are expected to:**

PEO1: Apply design thinking, architectural technology and environmental science to create sustainable, climate-resilient and culturally-responsive buildings and environments relevant to the Niger Delta, the Gulf of Guinea and the wider international context.

PEO2: Pursue and attain professional registration with the Architects Registration Council of Nigeria (ARCON) and, where pursued, membership of the Commonwealth Association of Architects (CAA), RIBA or equivalent international bodies.

PEO3: Practise architecture with integrity, ethical judgement and leadership grounded in the Oro (Oron) Nation's and wider African cultural values of dignity, empathy, inclusion and justice.

PEO4: Champion and extend the vernacular, heritage and cultural knowledge of the Oro (Oron) Nation and the wider Niger Delta in contemporary architectural design and conservation practice.

PEO5: Engage in continuous, life-long learning and the responsible application of digital, computational and AI-enabled design tools throughout a professional career.

### A.3 Programme Outcomes — Your Graduate Attributes

**By the time you graduate, you will be able to demonstrate the following twelve outcomes:**

No.

**Outcome**

**Description**

**AO1**

**Design Thinking and Creativity**

Generate, develop and communicate original architectural design solutions responsive to function, site, culture and client need.

**AO2**

**Architectural Technology and Construction**

Apply knowledge of building materials, construction systems and technology to produce buildable, technically sound designs.

**AO3**

**Environmental Science and Sustainability**

Apply climatology, thermal, acoustic and lighting principles, and sustainable/green design strategies, to environmentally responsive architecture.

### AO4

### Structures

Apply structural principles sufficient to conceive, coordinate and collaborate on the structural design of buildings.

### AO5

### Digital and Computational Tools

Use CAD, BIM and computational/parametric design tools appropriately and critically in design development and documentation.

### AO6

### Architecture, Culture and Society

Understand the historical, cultural and social forces — including Oro (Oron) Nation heritage — that shape architecture, and design with cultural sensitivity.

### AO7

### Professional Practice, Ethics and Law

Understand the ethical, legal, regulatory and business framework of architectural practice, including ARCON requirements.

### AO8

### Communication

Communicate design intent effectively through freehand and digital drawing, physical and digital modelling, written and oral presentation.

### AO9

### Urban Design and Context

Analyse and design responsively within urban, landscape and regional planning contexts.

### AO10

### Research and Critical Analysis

Conduct research-informed design investigation and critically evaluate precedents, evidence and design options.

### AO11

### Collaboration and Project Management

Function effectively within multidisciplinary design and construction teams and apply project management principles.

### AO12

### Life-Long Learning

Recognise the need for and engage in independent and life-long learning in the broadest context of technological and professional change.

## A.4 How to Use This Handbook

### For every semester, you should identify:

The courses you must register, with codes, credit units, status (Core/Elective) and prerequisites.

The main topics to be taught and their weekly sequencing.

Your design studio project(s) and expected deliverables.

Assignments and coursework.

Continuous assessment requirements.

Major examinations, juries/critiques and any specialisation pathway you must declare.

What you should be able to do by the end of the course.

What you need to prepare for the next semester.

## A.5 Credit Units, Design Studio Loading, SIWES and Grading

One (1) credit unit is equivalent to one hour of lecture/tutorial contact per week, or two-to-three hours of design studio/laboratory/workshop contact per week, sustained over a fifteen-week semester. Because the design studio is the core integrating activity, studio courses carry a higher credit weighting (4-8 units) than lecture-based courses. Your indicative total load across the ten-semester programme is approximately 175-185 credit units. SIWES is compulsory, logged and graded Pass/Fail, and your SIWES evidence forms part of your graduation portfolio. Continuous assessment (design juries, crits, assignments, tests) typically makes up 40-50% of your grade in studio courses given their practice-based nature, and 30-40% in lecture-based courses, with the balance from end-of-semester examination or final review.

## B.Sc./B.Arch Architecture

Delivered by the Department of Architecture, Faculty of Environmental Sciences, with specialisation pathways in Architectural Technology & Digital Fabrication, Heritage Conservation & Adaptive Reuse, Urban Design, and Sustainable/Climate-Responsive Design.

### Programme Emphasis

The programme develops architects capable of conceiving, designing, documenting and delivering sustainable, technically sound and culturally responsive buildings and environments, with particular attention to the climatic, coastal and cultural realities of the Niger Delta and Gulf of Guinea, and grounded in the vernacular and heritage architecture of the Oro (Oron) Nation.

### Curriculum Structure — Semester-by-Semester Summary

**Semester**

**Level**

**Academic Theme**

**Semester 1**

**100 Level, First Semester**

**Foundations of Architectural Education**

**Semester 2**

**100 Level, Second Semester**

**Design Fundamentals and Representation**

**Semester 3**

**200 Level, First Semester**

**Architectural Design Fundamentals**

**Semester 4**

**200 Level, Second Semester**

**Design Development and Building Technology**

**Semester 5**

**300 Level, First Semester**

**Design Development and Technology**

**Semester 6**

**300 Level, Second Semester**

**Contextual and Vernacular Design**

**Semester 7**

**400 Level, First Semester**

**Specialised Architectural Practice**

**Semester 8**

**400 Level, Second Semester**

**Industrial Application and Professional Integration**

**Semester 9**

**500 Level, First Semester**

**Thesis and Advanced Professional Practice**

**Semester 10**

**500 Level, Second Semester**

**Integrated Thesis and Professional Readiness**

**Semester 1 — 100 Level, First Semester**

**Academic Theme: Foundations of Architectural Education**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**GST 101**

**Communication in English I**

**2**

**C**

**None**

**GST 103**

**Nigerian Peoples and Culture**

**2**

**C**

**None**

**ARC 101**

**Introduction to Architecture**

**2**

**C**

**None**

**ARC 103**

**Basic Design I (Elements and Principles of Design)**

**3**

**C**

**None**

**ARC 105**

**Architectural Graphics and Freehand Drawing I**

**2**

**C**

**None**

**MTH 101**

**Elementary Mathematics I**

**3**

**C**

**None**

**PHY 101**

**General Physics (Building Science Foundations)**

**2**

**C**

**None**

**ARC 107**

**History of Architecture I (Ancient and Classical)**

**2**

**C**

**None**

**Total Units This Semester**

**18**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Weeks 1-3**

Orientation; what architects do; introduction to design thinking and the design process.

**Weeks 4-6**

Elements and principles of design: point, line, plane, form, balance, rhythm, proportion.

**Weeks 7-9**

Freehand drawing: line quality, perspective sketching, lettering, basic rendering.

**Weeks 10-12**

Ancient and classical architecture: Egypt, Mesopotamia, Greece, Rome.

**Weeks 13-14**

Basic mathematics and physics for building science.

**Week 15**

Revision; portfolio review; student presentations.

**Coursework Requirements**

**Design exercise portfolio**

**Freehand drawing portfolio**

**History essay**

**Mathematics/physics problem sets**

**Oral presentation**

**Semester Project: "My First Spatial Composition"**

Students produce an abstract 3-D composition exploring form, space and proportion, presented as models and drawings.

**Semester 2 — 100 Level, Second Semester**

**Academic Theme: Design Fundamentals and Representation**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**GST 102**

**Communication in English II**

**2**

**C**

**GST 101**

**GST 104**

**Use of Library, Study Skills and ICT**

**1**

**C**

**None**

**ARC 102**

**Basic Design II (Form, Space and Composition)**

**3**

**C**

**ARC 103**

**ARC 104**

**Architectural Graphics and Freehand Drawing II**

**2**

**C**

**ARC 105**

**ARC 106**

**Introduction to Building Materials**

**2**

**C**

**None**

**MTH 102**

**Elementary Mathematics II**

**2**

**C**

**MTH 101**

**ARC 108**

**History of Architecture II (Medieval to Renaissance)**

**2**

**C**

**ARC 107**

**ARC 110**

**Introduction to Computer-Aided Design (CAD)**

**2**

**C**

**None**

**ARC 112**

**Workshop Practice and Model Making**

**2**

**C**

**None**

**Total Units This Semester**

**18**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Focus**

Form and spatial composition; orthographic and axonometric drawing; building materials survey; medieval-to-Renaissance architectural history; introductory CAD; model-making workshop.

**Coursework Requirements**

**Spatial composition models**

**Materials sample report**

**CAD exercise**

**History essay**

**Workshop model**

**Semester Project: "Small Pavilion Design"**

A small outdoor pavilion or garden structure, developed from concept sketch to scale model.

**Semester 3 — 200 Level, First Semester**

**Academic Theme: Architectural Design Fundamentals**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 201**

**Architectural Design Studio I (Small-Scale Buildings)**

**4**

**C**

**ARC 102**

**ARC 203**

**Building Construction and Materials I**

**3**

**C**

**ARC 106**

**ARC 205**

**Structures I (Statics and Strength of Materials for Architects)**

**3**

**C**

**MTH 102**

**ARC 207**

**History of Architecture III (African and Nigerian Traditional Architecture)**

**2**

**C**

**ARC 108**

**ARC 209**

**Environmental Science I (Climate and Site Analysis)**

**2**

**C**

**PHY 101**

**ARC 211**

**Surveying for Architects**

**2**

**C**

**None**

**GST 201**

**Entrepreneurship Studies I**

**2**

**C**

**None**

**Total Units This Semester**

**18**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Weeks 1-4**

Site analysis and climate-responsive siting; design brief interpretation.

**Weeks 5-8**

Small building design development: a residence or studio/live-work unit.

**Weeks 9-11**

Building construction: foundations, walling systems, roofing for small buildings.

**Weeks 12-14**

African and Nigerian traditional architecture; statics and strength of materials.

**Week 15**

Design studio jury/critique; portfolio review.

**Coursework Requirements**

**Site analysis report**

**Construction detail drawings**

**Structures problem sets**

**Traditional architecture case study**

**Semester Project: "Design Studio I — A Small Residence"**

Full design development of a small residence, from concept through working drawings and a presentation model.

**Semester 4 — 200 Level, Second Semester**

**Academic Theme: Design Development and Building Technology**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 202**

**Architectural Design Studio II (Medium-Scale Buildings)**

**4**

**C**

**ARC 201**

**ARC 204**

**Building Construction and Materials II**

**3**

**C**

**ARC 203**

**ARC 206**

**Structures II (Timber and Steel for Architects)**

**3**

**C**

**ARC 205**

**ARC 208**

**Environmental Science II (Thermal, Acoustic and Lighting Design)**

**2**

**C**

**ARC 209**

**ARC 210**

**Building Services I (Water Supply, Drainage and Sanitation)**

**2**

**C**

**None**

**ARC 212**

**Digital Architectural Representation (Advanced CAD/Intro BIM)**

**2**

**C**

**ARC 110**

**GST 202**

**Entrepreneurship Studies II**

**2**

**C**

**GST 201**

**Total Units This Semester**

**18**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Focus**

Medium-scale building design (a school, clinic or community facility); timber and steel construction; thermal/acoustic/daylighting design; water supply and drainage services; introductory BIM.

**Coursework Requirements**

**Design studio drawings and model**

**Construction details**

**Structures assignment**

**Services layout drawing**

**BIM exercise**

**Semester Project: "Design Studio II — A Community Facility"**

Design of a medium-scale community building (clinic, nursery school, or community hall) responsive to climate and site.

**Semester 5 — 300 Level, First Semester**

**Academic Theme: Design Development and Technology**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 301**

**Architectural Design Studio III (Public Buildings)**

**4**

**C**

**ARC 202**

**ARC 303**

**Building Construction and Materials III (Composite Systems)**

**3**

**C**

**ARC 204**

**ARC 305**

**Structures III (Reinforced Concrete for Architects)**

**3**

**C**

**ARC 206**

**ARC 307**

**History of Architecture IV (Modern Movement)**

**2**

**C**

**ARC 207**

**ARC 309**

**Landscape Architecture and Site Planning**

**2**

**C**

**ARC 209**

**ARC 311**

**Building Services II (Electrical and Mechanical Systems)**

**2**

**C**

**ARC 210**

**ARC 313**

**Working Drawings and Specification Writing**

**2**

**C**

**ARC 204**

**ARC 391**

**SIWES I**

**0**

**C**

**Pass/Fail, logged**

**Total Units This Semester**

**18**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Focus**

Public building design (library, market or civic building); composite construction systems; reinforced concrete for architects; the Modern Movement; landscape and site planning; electrical/mechanical services; working drawings.

**Coursework Requirements**

**Design studio drawings and model**

**Construction details**

**Structures assignment**

**Landscape plan**

**Working drawing set**

**SIWES**

Students begin structured industrial exposure (SIWES) in an architectural or construction practice, in accordance with the approved SIWES arrangement.

**Semester 6 — 300 Level, Second Semester**

**Academic Theme: Contextual and Vernacular Design**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 302**

**Architectural Design Studio IV (Complex/Mixed-Use Buildings)**

**4**

**C**

**ARC 301**

**ARC 304**

**Urban Design and Planning Fundamentals**

**3**

**C**

**ARC 309**

**ARC 306**

**Structures IV (Long-Span and Tall Building Systems)**

**3**

**C**

**ARC 305**

**ARC 308**

**Vernacular and Heritage Architecture of the Oro (Oron) Nation**

**2**

**C**

**ARC 307**

**ARC 310**

**Building Economics and Cost Planning**

**2**

**C**

**None**

**ARC 312**

**Model Making and Design Communication**

**2**

**C**

**None**

**ARC-E1**

**Specialisation Elective (choose one; see options below)**

**3**

**E**

**Varies**

**Total Units This Semester**

**19**

**Specialisation / Pathway Options**

**Code**

**Option Title**

**ARC-A01**

**Coastal and Climate-Responsive Architecture**

**ARC-A02**

**Architectural Heritage Conservation and Adaptive Reuse**

**ARC-A03**

**Urban Design and Regional Planning**

**ARC-A04**

**Computational Design and Parametric Architecture**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Focus**

Mixed-use/complex building design; urban design fundamentals; long-span and tall-building structural systems; Oron vernacular and heritage architecture documentation; cost planning; model-making.

**Coursework Requirements**

**Design studio drawings and model**

**Urban design analysis**

**Vernacular architecture field survey report**

**Cost plan exercise**

**Semester Project: "Documenting Oron Vernacular Architecture"**

A field-based documentation project recording building forms, materials and spatial organisation of Oro (Oron) Nation vernacular architecture, to inform contemporary design response.

**Semester 7 — 400 Level, First Semester**

**Academic Theme: Specialised Architectural Practice**

Students formally declare one specialisation pathway at the start of Semester 7, carried through Semester 8: (A) Architectural Technology and Digital Fabrication, (B) Heritage Conservation and Adaptive Reuse, (C) Urban Design, or (D) Sustainable and Climate-Responsive Design.

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 401**

**Architectural Design Studio V (Large-Scale/High-Rise Complex)**

**5**

**C**

**ARC 302**

**ARC 403**

**Advanced Building Technology and Systems Integration**

**3**

**C**

**ARC 303**

**ARC 405**

**Professional Practice I (Ethics and Practice Organisation)**

**2**

**C**

**None**

**ARC 407**

**Research Methods in Architecture**

**2**

**C**

**None**

**ARC 409**

**Structures V (Advanced Analysis for Architects)**

**2**

**C**

**ARC 306**

**ARC-P1**

**Pathway Course (choose track A, B, C or D)**

**3**

**E**

**Declared pathway**

**Total Units This Semester**

**17**

**Specialisation / Pathway Options**

**Code**

**Option Title**

**A - ARC 411**

**Advanced Architectural Technology and Digital Fabrication**

**B - ARC 413**

**Heritage Conservation and Adaptive Reuse Studio**

**C - ARC 415**

**Urban Design Studio**

**D - ARC 417**

**Sustainable and Climate-Responsive Design Studio**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Fieldwork**

At least one supervised field/site visit exercise relevant to the declared pathway shall be undertaken.

**Coursework Requirements**

**Design studio drawings and model**

**Technology integration report**

**Research proposal**

**Structures assignment**

**Professional practice case study**

**Semester 8 — 400 Level, Second Semester**

**Academic Theme: Industrial Application and Professional Integration**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 402**

**Architectural Design Studio VI (Comprehensive Design Studio)**

**5**

**C**

**ARC 401**

**ARC 404**

**Building Services III (Integrated Systems Design)**

**2**

**C**

**ARC 311**

**ARC 406**

**Architecture Law and Building Regulations**

**2**

**C**

**None**

**ARC 408**

**Quantity Surveying and Contract Documentation for Architects**

**2**

**C**

**ARC 310**

**ARC 410**

**Research Methodology and Thesis Proposal**

**2**

**C**

**ARC 407**

**ARC-P2**

**Pathway Course (continuation of declared track)**

**3**

**E**

**Declared pathway**

**Total Units This Semester**

**16**

**Specialisation / Pathway Options**

**Code**

**Option Title**

**A - ARC 412**

**Digital Fabrication and Parametric Detailing**

**B - ARC 414**

**Conservation Documentation and Adaptive Reuse Design**

**C - ARC 416**

**Urban Regeneration and Public Space Design**

**D - ARC 418**

**Green Building Certification and Passive Design**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Output**

Each student produces a comprehensive design studio project integrating structure, services and technology, and a thesis proposal (problem statement, literature review, objectives, methodology, work programme).

**Coursework Requirements**

**Comprehensive design studio drawings and model**

**Bill of quantities exercise**

**Building regulations case study**

**Thesis proposal**

**Semester 9 — 500 Level, First Semester**

**Academic Theme: Thesis and Advanced Professional Practice**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 501**

**Thesis Design Studio I (Concept and Proposal Development)**

**6**

**C**

**ARC 410**

**ARC 503**

**Professional Practice II (Office Management and Contracts)**

**2**

**C**

**ARC 405**

**ARC 505**

**Architecture Law and Registration (ARCON Requirements)**

**2**

**C**

**ARC 406**

**ARC-E2**

**AU Specialist Elective I**

**3**

**E**

**Declared pathway**

**ARC-E3**

**AU Specialist Elective II**

**3**

**E**

**Declared pathway**

**Total Units This Semester**

**16**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Thesis Phase I**

Site selection and analysis; programme development; concept design; precedent research; design development toward thesis jury.

**Coursework Requirements**

**Thesis concept document**

**Site and programme analysis**

**Office management case study**

**ARCON registration pathway report**

**Semester 10 — 500 Level, Second Semester**

**Academic Theme: Integrated Thesis and Professional Readiness**

**Registered Courses**

**Code**

**Course Title**

**Units**

**Status**

**Prerequisite**

**ARC 599**

**Thesis Design Studio II (Final Design, Documentation and Defence)**

**8**

**C**

**ARC 501**

**ARC 502**

**Seminar in Architecture**

**1**

**C**

**None**

**ARC 504**

**Professional Practice III (Portfolio and Career Readiness)**

**2**

**C**

**ARC 503**

**ARC-E4**

**AU Specialist Elective III**

**3**

**E**

**Declared pathway**

**Total Units This Semester**

**14**

**Weekly Scheme of Work**

**Weeks**

**Topics / Learning Activities**

**Requirements**

Complete design development and technical resolution of the thesis project; produce full working drawings, structural and services coordination, and a presentation model; prepare a written thesis report; defend the project before a jury panel; submit corrected final copy.

**Graduation Portfolio Requirements**

**Transcript**

**Thesis design report and drawings**

**Thesis presentation model/digital model**

**Design studio portfolio (Studios I-VI)**

### SIWES evidence

### Professional development record

### Career portfolio for ARCON registration pathway

### B. Your Weekly Study Model

### Plan your week across the following components:

Design studio — the core of your week; concept development, drawing, model-making and desk critiques.

Lectures — core teaching contact in technology, structures, history/theory and environmental science.

Tutorials — problem-solving and clarification.

Independent study — reading, research and revision.

Coursework — assignments, reports and documentation.

Group work — collaborative design and multidisciplinary coordination exercises.

Maintain a personal Design Portfolio throughout your ten semesters, consolidating drawings, models, competition entries, SIWES evidence and jury feedback. You will need this evidence for your ARCON registration pathway and for professional practice after graduation.

### C. What a Normal Teaching Semester Looks Like

### A normal fifteen-week teaching semester generally follows this pattern:

### Week(s)

### What Happens

### Week 1

Orientation / studio brief issue.

### Weeks 2-4

Site/programme analysis and concept design (studio); core theory (lecture courses).

### Week 5

Concept design jury/crit.

### Weeks 6-9

Design development; construction/technology integration; continuous assessment.

### Week 10

Mid-semester design jury/crit.

### Weeks 11-13

Detailed design and documentation; working drawings.

### Week 14

Final jury/crit and project presentation.

### Week 15

Portfolio submission and final revision.

### Examination period

As separately published by the University, for lecture-based courses.

### D. Recommended Textbooks and References

Use these as your core reading list across the programme. Your studio tutors and lecturers will indicate the specific chapters and editions relevant to each course; you are encouraged to also consult current journals, precedent studies and design codes as directed.

### D.1 B.Sc./B.Arch Architecture

### Design Fundamentals, Graphics and Representation

Ching, F.D.K. — Architecture: Form, Space and Order, Wiley.

Ching, F.D.K. — Architectural Graphics, Wiley.

Ching, F.D.K. — Design Drawing, Wiley.

### History and Theory of Architecture

Fletcher, B. (Sir) — A History of Architecture, Architectural Press.

Curtis, W.J.R. — Modern Architecture Since 1900, Phaidon.

Dmochowski, Z.R. — An Introduction to Nigerian Traditional Architecture (3 vols.), Ethnographica/National Commission for Museums and Monuments.

Denyer, S. — African Traditional Architecture, Heinemann.

### Building Construction and Materials

Chudley, R. and Greeno, R. — Building Construction Handbook, Routledge.

Barry, R. — The Construction of Buildings (5 vols.), Wiley-Blackwell.

Allen, E. and Iano, J. — Fundamentals of Building Construction: Materials and Methods, Wiley.

### Structures for Architects

Macdonald, A.J. — Structure and Architecture, Architectural Press.

Salvadori, M. — Structure in Architecture: The Building of Buildings, Prentice Hall.

Ching, F.D.K., Onouye, B.S. and Zuberbuhler, D. — Building Structures Illustrated, Wiley.

### Environmental Science, Climate and Sustainable Design

Szokolay, S.V. — Introduction to Architectural Science: The Basis of Sustainable Design, Routledge.

Lechner, N. — Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Wiley.

Givoni, B. — Man, Climate and Architecture, Applied Science Publishers.

### Building Services and Technology Integration

McMullan, R. — Environmental Science in Building, Palgrave Macmillan.

Hall, F. and Greeno, R. — Building Services Handbook, Routledge.

### Landscape, Urban Design and Planning

Lynch, K. — The Image of the City, MIT Press.

Gehl, J. — Cities for People, Island Press.

Booth, N.K. — Basic Elements of Landscape Architectural Design, Waveland Press.

### Heritage Conservation and Adaptive Reuse (Specialisation Track)

Feilden, B.M. — Conservation of Historic Buildings, Architectural Press.

Orbasli, A. — Architectural Conservation: Principles and Practice, Blackwell Science.

### Digital and Computational Design (Specialisation Track)

Eastman, C.M. et al. — BIM Handbook, Wiley.

Kolarevic, B. — Architecture in the Digital Age: Design and Manufacturing, Taylor & Francis.

### Professional Practice, Ethics and Regulation

Architects Registration Council of Nigeria (ARCON) — Professional Code of Conduct and Registration Requirements (current edition).

RIBA — Architect's Handbook of Practice Management, RIBA Publishing.

Ashworth, A. and Perera, S. — Contractual Procedures in the Construction Industry, Routledge.

### Working Drawings, Specification and Quantity Surveying

Willis, C.J., Willis, J.A. and Ashworth, A. — Practice and Procedure for the Quantity Surveyor, Wiley-Blackwell.

Ramsey, C.G. and Sleeper, J.R. (updated ed.) — Architectural Graphic Standards, Wiley.

## E. Where to Get Further Help

This Student Handbook covers what you need to plan and succeed in each semester. Detailed course specifications, learning-outcome mapping and marking schemes for each course and design studio are held by your lecturers and studio tutors in their course files, and can be requested from your Head of Department or Faculty Officer.