

**OBAFEMI AWOLOWO UNIVERSITY,
ILE-IFE, NIGERIA**



FACULTY OF ENVIRONMENTAL DESIGN AND MANAGEMENT

DEPARTMENT OF BUILDING

B. Sc. Building

**STUDENTS'
INFORMATION
HANDBOOK**

2017 EDITION

FOREWORD

I have the pleasure to welcome you to the Department of Building, Obafemi Awolowo University, Ile-Ife, the highly rated academic hub, meant for the training of professional builders that are major stakeholders in the built environment sector. The Department prides itself as a shining example based on the production of human capital for the construction industry and professionals that have been contributing to the growth of the country's infrastructural services, and has also trained thousands of Nigerians and non-Nigerians that are occupying enviable and top positions in government formations, private practice and academia across the globe. The Department provides teaching and research facilities leading to the awards of B.Sc., M.Sc., M.Phil. and Ph.D in fields like Building Structures, Building Maintenance, Building Services and Construction Management.

The Department is the first to offer Building Programme out of all the Nigerian Universities located in the Southwest of the country. In the past years, programmes of the Department have been reviewed in order to be responsive to the dynamics, current practice and constantly changing demands in the Built Environment Sector. The 2017 edition of the Department's handbook is an improvement on the Department's 2014 handbook sequel to the need to increase its contents.

Over the years, the Department has made landmark contributions as one of the oldest Departments of Building in Nigeria by providing academic leadership to other institutions that offer Building Programmes. Exemplary performances of our graduates in various professional examinations and higher degrees either within or outside the country are significant reflections of the quality of staff, facilities and programmes of the Department.

This handbook provides the required information for students and others seeking to know about the Department. It contains basic information on the entry requirements, academic regulations, admission and graduation requirements, course structure and contents and grading system. It also has other information on the mode of workings and operations of the Department in particular and the University at large. Every student registered in the Department must have a copy of this inestimable document in order to be rounded in the learning and culture principles of the University.

As you start your career development in the Department of Building of the Prestigious Obafemi Awolowo University, Ile-Ife, I wish you a successful studentship in this Great Citadel of Learning.

Dr. A.B. Wahab
Acting Head, Department of Building

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1.2.1

History of the University

Obafemi Awolowo University (formerly, University of Ife), Ile-Ife is one of the three Universities established in Nigeria between 1961 and 1962 as a result of the report submitted to the Federal Government in September, 1960, by a Commission it appointed in April 1959 under the Chairmanship of Sir Eric Ashby, Master of Clare College, Cambridge, to survey the needs of post-secondary and higher education in Nigeria over the next twenty years.

The Government of Western Nigeria first announced in 1960 its intention to establish as soon as possible a University in Western Nigeria which would be of the highest standard. Its policy would be to open its doors to students from all parts of the Federation and of the World.

The planning of the Obafemi Awolowo University was entrusted to two Committees. The first being a University Planning Committee comprising persons qualified to advice on the planning of a new University, and who in effect, undertook the preparatory work connected with the establishment of the University pending the setting up of the Provisional Council of the University. The second committee was the University Parliamentary Committee, which was advisory to the Minister of Education. On 8th June, 1961 the Law providing for the establishment of the Provisional Council of the university was formally inaugurated under the Chairmanship of Chief Rotimi Williams.

On 11th June, 1970, an Edict known as the University of Ife Edict, 1970 was promulgated by the Government of the Western State to replace the Provisional Council Law of 8th June, 1961. This Edict has since been amended by the Obafemi Awolowo University, Ile-Ife (Amended) Edict No. 11 of 1975 (Transitional Provisions) Decree No. 23 of 1975. This new Decree effected a take over of the Obafemi Awolowo University by the Federal Military Government and established a Provisional Council as an interim governing body of the University which shall subject to the general direction of the Head of the Federal Government, control the policies and finances of the University and manage its affairs. Governing Council has since replaced this Provisional Council.

The site selected for the University was at Ile-Ife, a town about 80 kilometres northeast of Ibadan in Oyo State (part of the old Western State). Ife is famous as the centre of an ancient civilization and home of the Museum, which contains the renowned Ife heads. It was intended that temporary buildings should be put up on the site to enable teaching to commence in October 1962 while the permanent buildings were being planned and erected. But when the Federal Government transferred the Ibadan Branch of the Nigerian College of Arts, Science and Technology to the University, it was decided that it would be unnecessary to put up temporary buildings at Ife and the University was temporarily located on the site of Ibadan Branch of the Nigerian College. Teaching began in October 1962 with an initial enrolment of 244 students. The teaching, administrative and technical staff, either transferred from the Nigerian College or newly recruited from abroad numbered about eighty.

The University started with five Faculties - Agriculture, Arts, Economics and Social Studies (now Social Sciences), Law and Science. Six new faculties have since been added, namely the Faculty of Education (established on 1st October, 1967), the Faculty of Pharmacy (established on 1st October, 1969), the Faculties of Technology and Health Sciences (now College of Health Sciences) (both established on 1st October, 1970) Faculty of Administration (which replaces the former Institute of Administration with effect from 1st October 1979) and Faculty of Environmental Design and Management (established on April 6, 1982).

In 1992, the University established a collegiate system with five Colleges. The system did not function effectively and was abandoned after two years. However, the Postgraduate College and the

College of Health Sciences were retained. The College of Health Sciences now comprises of the Faculties of Basic Medical Sciences, Clinical Sciences and Dentistry.

The Adeyemi College of Education located in Ondo and the Institute of Agricultural Research and Training in Ibadan were initially integral part of the University. Although the Adeyemi College was separated from the University in 1975, however, there is still a close relationship between the two institutions. The College offers degree programme of the University under a system that is closely monitored by the University. The Institute of Agricultural Research and Training, Ibadan with a branch at Akure in Ondo State, used to be fully superintended by the University in 1991. However, the Akure branch and the College of Animal Science of the Institute continued to report to the Federal Government through the Director of the institute. In terms of funding, the Institute of Agricultural Research and Training now relates to the Federal Ministry of Agriculture while the University still has administrative responsibility for the Research and Administrative staff of the Institution. The Director and the Secretary of the institute are responsible to the University through the Vice-Chancellor and Registrar respectively. The Vice-Chancellor is the Chairman of the Institute's Governing Board.

The following other Institutes and major units exist in the University:

- The Natural History Museum
- The Institute of Ecology and Environmental Studies
- The Centre for Gender and Social Policy Studies
- The Centre for Industrial Research and Development
- The Institute of Public Health
- The Institute of Cultural Studies
- The Physical Planning and Development Unit
- The Computer Centre
- The Drug Research and Production Unit
- The Equipment Maintenance and Development Centre
- The Central Technological Laboratory Workshop
- The Central Science Laboratory
- The Centre for Distance Learning

Finally, some other agencies over which the University has no direct, or, in some cases limited control, have premises within the University. These include

- The Regional Centre for Training in Aerospace Surveys
- The National Centre for Technology Management
- The Centre for Energy Research and Development
- The African Regional Centre for Space Science and Education in English.

The student population rose steadily from 244 in 1962/63 to over 30,000 at the end of the 2015/2016.

1.2.2 Mission, Vision and Objectives of the University

(a) MISSION

To create a teaching and learning community for imparting appropriate skills and knowledge, behaviour and attitude; advance frontiers of knowledge that is relevant to national and global

development; engender a sense of selfless public service; and promote and nurture the African culture and tradition.

(b) **VISION**

The vision is of a top rated University in Africa, ranked among the best in the world, whose products occupy leadership positions in the public and private sectors of the Nigerian and global economy, that has harnessed modern technology, social, economic and financial strategies, built strong partnerships and linkages within and outside Nigeria and whose research contributes a substantial proportion of innovations to the Nigerian economy.

(c) **STRATEGIC OBJECTIVES**

1. To produce graduates of international standard, with appropriate knowledge and skills in their field of study, who will be highly employable and able to employ themselves.
2. To provide high quality research and development activities that will promote development of the Nation and enhance image of the University and the researchers.
3. To harness modern technology especially ICT and modern social, economic and financial strategies to run a cost of efficient and effective academic programme and institutional management.
4. To provide services that has relevance to and impact on the local community and the Nation.
5. To provide conditions of study, work and living in the University Community that are of appropriate standard.
6. To expand access to tertiary education in the face of unmet demand.
7. To operate as an equal opportunity educational institution, sensitive to the principle of gender equity and non-discriminatory on the basis of race, ethnicity, religion or physical disability.

1.2.3 Members of the University

The members of the University as defined on statute 2(1) are:

- (a) The Officers of the University;

- (b) The members of the Council;
- (c) The members of the Senate;
- (d) The members of the Academic Staff;
- (e) The Graduates;
- (f) The students; and such other persons as may by statute be granted the status of members.

A person shall remain a member of the University only as long as he is qualified for such membership under any of the sub-paragraphs of paragraph (1) of this Statute.

1.2.4 Officers of the University

The Officers of the University as contained in Statute 3 shall be:

- (a) The Chancellor;
- (b) The Pro-Chancellor;
- (c) The Vice-Chancellor;
- (d) The Deputy Vice-Chancellor (Academic);
- (e) The Deputy Vice-Chancellor (Administration);
- (f) The Registrar;
- (g) The Librarian;
- (h) The Bursar; and
- (i) Such other persons as may by Statute be granted the status of officers.

1.2.5 Establishment of the University Council

(a) Functions

The University Council to be known as the Council of the Obafemi Awolowo University, Ile-Ife was established by the University of Ife Edict, 1970. The Edict states that Council shall be the governing authority of the University and shall have the custody, control and disposition of all the property and finances of the University and, except as may otherwise be provided in the Edict and the Statutes, shall manage and superintend generally the affairs of the University and, in any matter concerning the University not provided for or under this Edict, the Council may act in such manner as appears to it best calculated to promote the interests, objects and purposes of the University.

The Council, subject to the provisions of the Edict and Statutes has the following functions among others:

- (i) to determine, in consultation with Senate, all University fees;

- (ii) to establish, after considering the recommendation of the Senate on that behalf, Faculties, Institutes, Schools, Boards, Departments and other units of learning and research; to prescribe their organization, constitution and functions and to modify or revise the same;
- (iii) to authorize, after considering the recommendations of the Senate in that behalf, the establishments for the academic in the University, and with approval of the Senate, to suspend or abolish any academic post except a post created by this Edict or the Statutes;
- (iv) to authorize the establishments for the administrative staff and other staff in the University and to suspend or abolish any such posts other than posts created by this Edict or the Statutes;
- (v) to make the appointments authorized by this Edict and the Statutes;
- (vi) to exercise powers of removal from office and other disciplinary control over the academic staff, the administrative staff and all other staff in the University;
- (vii) to supervise and control the residence and discipline of students of the University and to make arrangements for their health and general welfare.

(a) **Composition of the Members of Council**

The Council as contained in Statute 10(1) as amended by Decree No. 11 of 1993 and Decree 25 of 1996 shall consist of the Following members:

- (i) Ex-Officio Members: Pro-Chancellor
 The Vice-Chancellor
 The Deputy Vice-Chancellors
- (ii) 1 member from the Federal Ministry of Education
- (iii) 4 members appointed by National Council of Ministers
- (iv) 4 members of Senate appointed by Senate
- (v) 2 members of the Congregation elected by the Congregation
- (vi) 1 member of Graduates Association elected by Graduates Association

The Senate shall prescribe which Departments and subjects of study shall form part or be the responsibility of each of the Faculties. The next level of organization is the Faculty where the teaching and other activities of the Departments are co-coordinated. Proposals generally come from Departments to the Faculty Board although they can also be initiated at the Faculty level in which Departments normally have an opportunity to consider them before the Faculty Board takes a decision. The membership of the Faculty Board is stipulated in Statute 13(3) thus:

- (a) The Vice-Chancellor
- (b) The Deputy Vice-Chancellors
- (c) The Dean of the Faculty
- (d) The Professors and Heads of Departments comprising the Faculty;
- (e) Such other full-time members of the academic staff of the Departments comprising the Faculty as the Senate may determine after considering the recommendation of the Faculty Board;
- (f) Such other Professors and other Heads of Departments, as the Senate may determine after considering the recommendation of the Faculty Board;
- (g) Such other persons within or outside the University as the Senate may appoint after considering the recommendation of the Faculty Board.

The next level is that of Departments which consist of groups or teachers and sometimes Research Fellows in a single subject with a Head who is usually although not always a Professor generally appointed by the Vice-Chancellor.

The Department is the normal basic unit of academic organization. It is at this level that the organization of teaching and the use of research facilities are primarily worked out. Senate may however recommend the creation of Institutes for groups of specialized subjects or discipline that require interdisciplinary research efforts and thus, cut across Faculties in scope.

1.3 Organization, Administration and Control

The Vice-Chancellor is the Chief Executive Officer of the University and five other Principal Officers of the University, namely; the Deputy Vice-Chancellors (2), the Registrar, the University Librarian and the Bursar report to him. The University Librarian is in charge of the University Library while the Bursar takes charge of the University finances. The Registrar is the Secretary to Council and the Chief Administrative Officer of the University and he assists the Vice-Chancellor in the day-to-day administration of the University. He is also the Secretary to Senate and heads the Registry, comprising the Directorate of Academic Affairs, the Directorate of Council Affairs, Division of Corporate Services and the Director of Personnel Affairs. The Planning, Budgeting, Monitoring Management Information System Unit takes care of the academic planning, budgeting and monitoring needs of the University and is under the Vice-Chancellor's Office.

The University Central Administration also includes some Units providing common services. They are the Medical and Health Services, the Division of Maintenance Services, the Physical Planning and Development Unit and the Computer Centre, Heads of these units report to the Vice-Chancellor.

1.3.1 Congregation

The Congregation comprises all full-time members of the academic staff and every member of the administrative staff who holds a degree of any recognized University. It discusses and declares an opinion on any matter whatsoever relating to the well-being of the University. It has twelve elected members in Senate and two elected members in the University Council.

1.3.2 History of the Faculty of Environmental Design and Management

The history of the Faculty dated as far back as 1970 with the establishment of the Department of Estate Management in the Faculty of Technology. The Department of Estate Management was expanded in October 1977 to include academic programmes and specializations in Architecture, Building, Quantity Surveying and Urban & Regional Planning. These five Departments metamorphosed in 1982 into a Faculty of Environmental Design and Management. The Department of Fine Arts was added to it in 1990.

The Faculty is also at the forefront in research and has viable postgraduate programmes in all fields of the Environmental Design and Management. This is because all the offices have connectivity to the internet for easy access to learning materials. Other sister universities in the country look up unto us for the postgraduate training of their academic staff.

The Faculty, through its postgraduate programmes, has produced high level manpower not only for the Faculty but for the needs of many Universities and other establishments in Nigeria and worldwide. The products of this Faculty are also in the managerial positions in the private and public organizations not only nationally but also internationally. As a matter of fact, they are in the forefront of the construction industry, charting the road for others to follow.

We are in the process of reviewing our academic programmes paying particular attention to the needs of employers and also to the development of entrepreneurship knowledge and skills. New courses are being designed and introduced. We are keen to collaborate with similar institutions, corporate bodies in Nigeria and those in the diaspora.

Presently, the active alumni of the Faculty are from all the Departments in the Faculty especially Department of Building and they have contributed in no small measure to the growth and development of the Faculty and the Department. It is hoped that other alumni will join hands with the active ones to assist the Faculty to sustain our lead position among Nigerian Universities and rank among the best in the world.

1.3.3 History of the Department of Building

The B.Sc. Building programme was introduced in 1977 under the then Department of Environmental Planning, Design and Management leading to the establishment of a full-fledged Department of Building in 1981 of the then University of Ife (Now Obafemi Awolowo University, Ile-Ife). The Department has since its establishment offered undergraduate and graduate programmes in Building. Over the years, the Department has reviewed its programmes with the recent one done in meeting realities of the current practice and demands of the construction industry and the anticipated future trends in building practice and theory.

The Department has trained thousands of Nigerians and non-Nigerians who are occupying top positions in private practice, government and academics all over the world. Many of our products hold highly placed positions across the globe. The Department has also made significant contributions as one of the oldest Departments of Building in Nigeria by providing leadership to other institutions offering building programmes. Our graduates also perform exemplary in professional examinations within and outside the country and this strongly attest to the quality of our programmes. The quality of the academic staff has improved tremendously with three lecturers obtaining their Ph.D. degrees in the past one year.

The Department is looking for brilliant young men and women who have the ability and zeal to go through training in a wide range of skills including sustainable construction, green building, energy management, maintenance practice, building materials applications, risk management, construction economics and procurement practices that can form future generation of Builders needed in construction industry, banks/other financial institutions, oil and gas industry, armed forces/police, public service and the academia.

1.3.4 Information on Facilities

A. Hezekiah Oluwasanmi Library

(i) Plan of the Library

The Library consists of the North and South wings, which are connected by walkways on two levels.

(ii) Membership

Membership of the Library is available, on completion of a registration card, to all students, members of the senior staff of the university and such other persons as may be determined by the Library Committee or the University librarian on behalf of it.

Students are required to renew their registration at the beginning of each academic year. Library Cards and Borrower's Tickets are not transferable; books issued on them remain the responsibility of the person whose name appears on them.

A Lost Library Card or Borrower's Ticket may be replaced on submission of a written application.

(iii) The Library Collection

Hezekiah Oluwasanmi Library now contains over 380,000 volumes. It consists of two main areas:

- (a) The Undergraduate Areas and
- (b) The Research Areas.

1. **Serial Collection**

The Serials Collection consists of:

- (i) Current journals, the most current issues of which are shelved in the display section of the Serials Room.
 - a. Latest back files i.e. the latest 10 years of journals, which are on open access to registered senior staff and postgraduate students.
 - b. Older back files i.e. journals older than ten years, are on closed access to all categories of readers who must obtain and complete request forms at the serials hatch.

2. **African Special Collection**

The African Special Collection is a collection of rare and other books of primary interest to people whose fields of interest are in African Studies. Staff publications and theses submitted for higher degrees of the University as well as of other Universities are also housed there. The Collection is closed access.

3. **Documents Collection**

The Documents Collection includes official publications of the Federal Government of Nigeria, the old regional governments, the present state governments and the Federal Capital Territory. It also includes publications of other African governments and international organizations.

4. **Reference Collection**

Dictionaries, encyclopedia, handbooks, directories, atlases, University Calendars, etc. are shelved in the Reference Room. Bibliographies, indexes and abstracts are available in the Bibliography Room. Reference books do not ordinarily circulate.

A newspaper clippings file (*post-October; 1985*) and a vertical file of reprints and other pamphlet type material is kept in the Reference Room.

5. **Reserve Collection**

(i) **Day reserve collection**
Multiple copies of textbooks, particularly some of those recommended for specific courses, are shelved in the Reserve Books Room on Floor 3 North Wing East.

(ii) **Two Hour Reserve**

Some other materials, periodical articles in particular, are placed on 2-hour reserve. These may be obtained on request (signature and seat number required) and retained for a period of two hours at a time, subject to renewal, provided other readers have not demanded the materials.

6. **Recent Acquisitions**

A selection of books added to the Library stock is normally displayed for several days before being put in the main collection. The books may not be borrowed while on display but may be reserved at the loans Desk.

Catalogues

A library catalogue is a finding list of books and other materials available in the library. The following catalogues can be found in the Catalogue Hall:

- (i) The Author/Title Catalogue
- (ii) The Subject Catalogue
- (iii) The Shelf list
- (iv) The Serials Catalogue
- (v) The Documents Catalogue

How to Borrow a Book

When you have found the book you want to borrow, you will be required to sign your name and address on the book card provided in duplicate. You must surrender a Borrower's Ticket for each book borrowed.

When you return a book, you must ensure that you receive your Borrower's Ticket back immediately.

Reservation

Filling a reservation slip can reserve a book; in which case, it will not be renewed for the present borrower when returned, and, if it is already overdue, it will be recalled at once.

Inter-Library Loan

If the book you require is not in stock, it is often possible to borrow it from another library. This service is dependent on goodwill and cooperation between libraries, and readers who benefit from it are required to observe the regulations applying to each loan.

Photocopying Services

Within the limitations imposed by copyright, the library is able to supply readers with photocopies of periodical articles and parts of books at moderate charges.

Penalties for Overdue or Lost Books

Penalties for overdue books will be imposed as follows:-

- (a) N5.00 per day for the first 30 days; thereafter all loan privileges will stop.
- (b) Books specially recalled by the university Librarian would attract a fine of N 10.00 per day after third day from the date of recall.
- (c) Books lost or damaged will attract a fine five times the current cost of the books.
- (d) No student will be allowed to attend the Graduation Ceremony or receive his/her certificate without a clearance certificate from the University Library to the effect that no book or fine is outstanding against him or her.

Library Opening and Closing Hours

Monday – Friday	8.00 a.m.	-	8.00 p.m.
Saturday	8.00 a.m.	-	4.00 p.m.
Sunday	2.00 p.m.	-	8.00 p.m.

Vacation Period

Monday – Friday	8.00 a.m.	-	6.00 p.m.
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B. Division of Students' Affairs.

1. Guidance and Counseling Unit:

The Division of Students' Affairs has Professional Counselors who are committed to helping students grow in self-understanding in the process of integrating their personal and academic experiences. The services are free to students and are confidential (i.e. not used as part of his/her other University records). The services include personal counseling, group counseling, study skills improvement, tests anxiety reduction, personal crisis intervention, psychological testing, career and occupational counseling and settlement of grievances between students. Where necessary, consultations are made with campus organizations, specialists and academic Departments, to ensure that students' problems are resolved satisfactorily.

The Counselors can be contacted in Rooms 9 and 10 Division of Students' Affairs between 10.00 a.m. and 2.00 p.m. Monday to Friday.

2. **Scholarships and Financial Assistance:**

The Division of Students' Affairs serves as a link between students and sponsoring authorities, both within and outside Nigeria. Students are advised to check the Notice Boards in their respective faculties as well as those at the Division of Student Affairs Building for advertisements and other relevant information.

Liaison is also maintained between students and governments at various levels for scholarship and bursaries.

1.3.5 Roll of Honours for Students

Senate at a Special Meeting held on Wednesday, 1st November, 2006 decided that Roll of honours for Students be instituted in the University to enhance discipline and good performance among students.

All students are enjoined to strive to be on the Honours Roll.

The details are as follows:

- (i) The Honours Roll should be at three levels, namely:
 - (a) Departmental Honours Roll
 - (b) Provosts/Deans Honours Roll
 - (c) University/Vice-Chancellor's Honours Roll
- (ii) The beneficiaries must have a minimum CGPA of 4.0 for Departmental Honours Roll; 4.25 for Provost/Deans honours Roll and 4.5 for Vice-Chancellor/University Honours Roll in all the Faculties except the Faculty of Pharmacy and College of Health Sciences where the candidates are expected to have a cumulative average of 60% and 62% respectively.
- (iii) The beneficiary must maintain this grade annually to continue to enjoy the award.
- (iv) The recommendations must be processed along with results of Rain Semester examinations.
- (v) The student must be of good conduct.
- (vi) He/she must not have outstanding or carry-over courses and must not be repeating the year.
- (vii) No student on Leave of Absence shall enjoy the Annual Roll of Honours Award.
- (viii) No student that has a disciplinary problem shall enjoy the award.

- (ix) The award shall be based on the recommendation of the Departmental Board of Examiners and the Faculty Board of Examiners, while that pertaining to the Vice-Chancellor/University shall be processed through the Committee of Deans.
- (x) Names of beneficiaries shall be displayed as follows;

Departmental Honours - Departmental Notice Board
Provost/Deans Honours - Faculty Notice Board
Vice-Chancellor/University Honours - Floor '0' Secretariat Building
- (xi) Each beneficiary shall be given a certificate.

1.4 University Examination Regulations

Some University Examination Regulations students should note as contained in University Examination Regulations for first Degrees, Diplomas and Certificates are:

1.4.1. Registration for University Examinations

- (a) A candidate for a University examination must have registered the courses in the prescribed format not later than the closing date prescribed for registration for such courses. Any candidate who fails to register for courses at the appropriate time as prescribed by Senate will not be allowed to take any examination in such courses. Any examination taken without course registration shall be null and void.
- (b) Students who register for courses are committed to the number of units registered for and are expected to take examinations in such courses. If a student failed to take an examination he would be scored '0F' for the number of units he had registered for and in which he had failed to take the prescribed examination.
- (c) Any student who does not have any course to offer in a particular semester should apply for leave of absence.
- (d) A candidate who has less than 15 units in a particular semester to graduate should apply to his/her Faculty Board for permission to register for less than 15 Units, failure to do so constitutes a breach of regulation which may result in the non-processing of the candidate's results.
- (e) A candidate, who cannot register for courses during the prescribed period for registration because of an illness, must ensure that medical report on his illness is forwarded by him or his parents/sponsors to reach the Dean of his Faculty not later than four weeks after the end of the normal registration period as scheduled in the University Calendar. Such a medical report should be forwarded for authentication by the Director of Medical and Health Services for it to be considered valid. Such a candidate shall be exempted from the penalties of late registration. All applications should be routed through the Head of Department.

- (f) Students must attend a minimum of 75% of course instructions including lectures, tutorials and practical where required to qualify to sit for examination in any course.

1.4.2 Absence from Examination

Candidates must present themselves at such University examinations for which they have registered. Candidates who fail to do so for reason other than illness or accident shall be bound by the following regulations:

- (a) Any student who fails to register for courses during one semester without permission should be deemed to have scored "0F" in the minimum number of units required for full time students (i.e. 15 Units).
- (b) Candidates who registered for courses, attended classes regularly, did all practical and tests but did not take required semester examinations should be given a continuous assessment grade in each of the affected courses and a grade of "0F" in the examination which they should have taken, but which they did not take.
- (c) Candidates who have less than 15 units to graduate but fail to take the required examinations should be deemed to have scored "0F" in the outstanding courses only provided such, candidates obtained permission to register for less than 15 units.
- (d) Any candidate who on account of illness, is absent from a University examination may be permitted by the Senate on the recommendation from the appropriate Faculty Board, to present himself for such examination at the next available opportunity provided that:
 - (i) A full-time student in the University shall report any case of illness to the University Health Centre at all times.
 - (ii) When a student falls ill during examination he should report to the Director, Medical and Health Services before attending any hospital outside the University. A report of sickness should be made to the Registrar within a week and a medical certificate of validation of his illness within three weeks.
 - (iii) When a student falls ill before an examination he shall be under an obligation to send a medical report countersigned by the Director, Medical and Health Services within one week of such illness. Any time outside this period, shall be considered on its merit.
 - (iv) The Director of Medical and Health Services should within 48 hours, submit a medical report on a candidate who is ill during an examination and is taken to the Health Centre or referred by it to the hospital for treatment.
 - (v) A candidate applying for leave of absence on medical grounds must forward his application together with a medical report to the Dean of his Faculty through his Head of Department. The Director, Medical and Health Services

must countersign the Medical Report. The appropriate Faculty Board must take all applications for Leave of Absence.

1.4.3 Examination Offences

- (a) A candidate shall not be allowed during an examination to communicate by word or otherwise with any other candidates nor shall he leave his place except with the consent of an invigilator. Should a candidate act in such a way as to disturb or inconvenience other candidates, he shall be warned and, if he persists he may, at the discretion of the invigilator be excluded from the examination room. Such action by the invigilator must also be reported in writing through the Head of Department to the Vice-Chancellor within 24 hours.
- (b) It shall be an examination offence for any student, staff or any person whatsoever, to impersonate a candidate in any University examination. Any student or staff of the University found guilty under this regulation shall be subjected to disciplinary action by the appropriate authority of the University.
- (c) No candidate shall take into an examination room or have in his possession during examination any book or paper or printed or written documents, whether relevant to the examination or not, unless specifically authorized to do so. Any invigilator has authority to confiscate such documents.
- (d) Mobile phones are not allowed in examination halls.
- (e) A candidate shall not remove from an examination room any papers, used or unused, except the question paper and such book and papers, if any, as he is authorized to take into the examination room.
- (f) Candidates shall comply with all "direction to candidates" set out on an examination answer book or other examination materials supplied to them. They shall also comply with duration given to them by an Invigilator.
- (g) Candidates shall not write on any paper other than the examination answer books. All rough work must be done in the answer books and crossed out neatly. Supplementary answer books, even if they contain only rough work must be tied inside the main answer books.
- (h) When leaving the examination room, even if temporarily, a candidate shall not leave his written work on the desk but he shall hand it over to an invigilator. Candidates are responsible for the proper return of their written work.
- (i) Smoking shall not be permitted in examination room during examination sessions.
- (j) Any candidate or staff who attempts in any way to unlawfully have or give pre-knowledge of an examination question or to influence the marking of scripts or the award of marks by the University examiner shall be subject to disciplinary action by the appropriate authority of the University.

- (k) If any candidate is suspected of cheating, receiving assistance or assisting other candidates or of infringing any other examination regulation, a written report of the circumstance shall be submitted by the invigilator to the Vice-Chancellor within 24 hours of the examination session. The candidate concerned shall be allowed to continue with the examination.
- (l) Any candidate suspected of examination malpractice shall be required to submit to the invigilator a written report immediately after the paper. Failure to make a report shall be regarded as a breach of discipline. Such report should be forwarded along with the Invigilators report to the Vice-Chancellor.
- (m) Where a Head of Department fails to forward a report on examination malpractice to the Vice-Chancellor such action would be considered misconduct.

1.4.4 Pattern of Examination

- (i) Each course shall be examined at the end of the course. The examination shall be conducted as prescribed by Senate.
- (ii) Each examination shall be 1-3 hours in duration. In addition there may be a practical paper and/or an oral examination.
- (iii) There shall be continuous assessment of each course and this shall constitute a percentage of the final grade.

1.4.4.1 Measurement of Performance

Performance in a course shall be measured in terms of:

- (i) the results of prescribed theory and practical examination
- (ii) continuous assessment which shall constitute 40% of measured performance
- (iii) Assessment of such essay, practical exercises and reports prescribed for each course.

1.4.4.2 Level of Performance

A candidate shall be recorded as having attained in a Course a level of achievement graded as follows:

A	=	Excellent	70%-100%
B	=	Very Good	60% 69%
C	=	Good	50-59%
D	=	Satisfactory	45%-49%
E	=	Adequate	40%-44%
F	=	Failure	0%-39%

1.4.4.3 Calculation of Grade Point Average (GPA)

The overall performance of each candidate during an entire semester shall be determined by means of a weighted grade point average, obtained by awarding credit points in respect of each course multiplied by the numerical value of the grade obtained as follows:

A	=	5	credit point per unit
B	=	4	“ “
C	=	3	“ “
D	=	2	“ “
E	=	1	“ “
F	=	0	“ “

The grade point average is the total number of credit points divided by the total number of units for all courses taken during a particular semester.

1.4.4.4 Definition of Terms

- (i) **Student Workload**: This is defined in terms of course units. One unit represents one hour of lecture or one hour of Tutorial or 2-4 hours of practical work per week throughout a semester. Thus for example, a course in which there are 2 hours of lectures and 1 hour of Tutorial per week is a 3 unit course.
- (ii) **Total Number of Units (TNU)**: This is the total number of course units carried by a student in a particular semester. It is the summation of the load Units on all Courses carried during the semester. For example, a student who is carrying 6 courses of 3 units each has a TNU of 18 for that semester. No student shall be allowed to carry (i.e. register for) or be examined in more than 24 units in any particular semester.
- (iii) **Cumulative Number of Units (CNU)**: This is the summation of total number of units over all the semesters from the beginning to date. A student who is prone to repeating courses will finish (if he does not drop out) with a higher CNU than his non-repeating colleague and will most likely require a longer time to complete requirements for the award of Degrees.
- (iv) **Level of Performance Rating**: This is the rating of grades obtained in terms of credit points per load unit. The rating used is as follows:

<i>Level of Performance</i>	<i>Rating (Credit Points per Unit)</i>
A = 70%-100%	5
B = 60%- 69%	4
C = 50%-59%	3
D = 45%-49%	2
E = 40%-44%	1
F = 0%-39%	0

Based on the above, a student who obtained a grade of ‘A’ in a 4-unit course has scored 20 Credit points, and one who obtained a grade of C in that course has scored 12 Credit points.

- (v) **Total Credit Points (TCP)**: This is the sum of the products of the course units and rating in each course, for the entire semester period. For example, consider a student who took 4 courses of 5 units each. Let's say the grade obtained in the four courses

were C.B.F.D. respectively. The TCP of this student is obtained as $5 \times 3 + 5 \times 4 + 5 \times 0 + 5 \times 2 = 45$.

- (vi) **Cumulative Credit Point (CCP):** This is the summation of Total Credit Points over all semesters from beginning to date.
- (vii) **Grade Point Average (GPA):** This is the total credit points (TCP) divided by the total units (TNU). For example, consider the student's scores referred to above. His TCP is 45, and of course, his TNU is 20 (i.e. 4 courses at 5 units each, for the semester). The highest GPA that can be earned is 5.0 and that is when a student has earned a grade of 'A' in every course during the semester. The lowest GPA obtainable is 0.0 and this would happen if the student has F all round during the semester.
- (viii) **Cumulative Grade Point Average (CGPA):** This is the summation of TCPs for all semesters, divided by the summation of TNUs for the said semesters. Like the GPA, CGPA obtainable ranges from 0 to 5.

1.4.4.5 GPA and CGPA Sample Computations

Sample Computations: Consider a student who has enrolled in a course programme designated as EES and has just completed 2 full semesters in the University. His course programme and his GPA and CGPA could be as follows:

SEMESTER I

1	2	3	4	5	6	7	8
	L	T	P	Units		RESULTS	
Course Code					GRADES	Credit Points	GPA/CGPA
EES 101	1	0	0	1	78% (A)	$1 \times 5 = 5$	$GPA = \frac{29}{18} = 1.61$
EES 103	3	0	2	4	60% (B)	$4 \times 4 = 16$	$CCP = 29 + 0 = 29$
EES 105	3	0	3	4	45% (D)	$4 \times 2 = 8$	$CNU = 18 + 0 = 18$
EES 107	3	1	5	6	38% (F)	$6 \times 0 = 0$	$CGPA = \frac{29}{18} =$
EES 109	2	1	0	3	27% (F)	$3 \times 0 = 0$	1.61
				18 (TNU)		29 (TCP)	In this case the TCP, TNU and GPA will be the same for CCP, CNU and CGPA

SEMESTER II

1	2	3	4	5	6	7	8
	L	T	P	Units		RESULTS	

Course Code					GRADE S	Credit Points	GPA/CGPA
EES 102	2	0	0	2	66% (B)	2 X 4 = 8	GPA = $\frac{52}{18} = 2.89$
EES 104	3	0	3	4	72% (A)	4 X 5 = 20	CCP = 52+29 = 81
EES 106	3	1	0	4	47% (D)	4 X 2 = 8	CNU = 18+18 = 36
EES 108	2	1	3	4	53% (C)	4 X 3 = 12	CGPA = $\frac{81}{36} = 2.25$
EES 110					42% (E)	4 X 1 = 4	
				21(TN U)		51 (TCP)	

1.4.5 Assessment and Award of Degrees

- (i) A student's workload is defined in terms of course units. One unit represents one hour.

Withdrawal from University

A student who fails to reach a cumulative grade point average of 1.00 at the end of one semester shall be placed on probation during the second semester. If he fails to achieve a cumulative grade point average of at least 1.00 at the end of the second semester, he shall be required to withdraw from the University.

Final Assessment and Class of Degree

- (i) A student's workload is defined in terms of course units. One unit represents one hour of tutorial, or 2-4 hours of practical work per week throughout a semester. All courses shall run for one semester or a full session of two semesters.
- (ii) The final award and the class of the degree shall be based on the Cumulative Grade Point Average (CGPA) obtained by each candidate in all prescribed courses approved by the University. The final cumulative grade point average shall be calculated on the basis of the total number of credit points and the total number of course units registered for during the course of the student's programme. In the case of a failed course, the candidate must repeat the course at the next available opportunity. If the course is an elective, the candidate may substitute another course and shall not be required to pass the failed elective course. If the course is a restricted elective, substitution can only be made from the list of restricted electives. The failed grade would however be reflected in the transcript.
- (iii) A candidate who has satisfactorily completed all requirements for the degree with an overall grade point average of not less than 1.50 shall be awarded the honours degree as indicated below:

First Class	4.50 – 5.00%
Second Class (Upper Division)	3.50 – 4.49%

Second Class (Lower Division)	2.40 – 3.49%
Third Class Honours	1.50 – 2.39%
Pass	1.00 – 1.49%

- (iv) Passes in 12 units of Special Electives is a requirement for graduation.
- (v) A candidate who scores a cumulative grade point average (CGPA) of less than 1.00 in two consecutive semesters shall be required to withdraw from the University.

LIST OF MEMBERS OF STAFF, QUALIFICATIONS AND SPECIALIZATIONS

(a) ACADEMIC

S/N	Name	Status	Qualifications	Areas of Specialization
1	A.B. Wahab	Senior Lecturer and Acting Head of Department	B.Sc. (Building), M.Sc. (Environmental Control & Management; Building Services); Ph.D (Building Services), AASCE, MISDS, MNIQB, R.Bldr.	Building Services/ Environmental Sustainability
2	K.A. Wahab	Emeritus Professor	M.Sc (Birmingham), Ph.D. (Reading), FNIQB, PPNIQB, FNIQS, FNIESV, MNSE, MCIQB, MIHE, MIAHS, R.Bldr.	Construction Management/ Construction Technology
3	D.A. Adesanya	Professor	M.Phil., PhD (Brunel) CAS, C.Eng., MCIBSE, MNIQB, R.Bldr., FSICA, MNIM.	Building Services/ Construction Technology
4	I.J. Ikpo	Professor	B.Sc. (Estate Management.), M.Sc.; Ph.D. (Building Maintenance). MNIQB, R.Bldr.	Building Maintenance/ Construction Technology
5	K.O. Olusola	Professor	B.Sc. (Building), M.Sc. (Construction Tech); Ph.D. (Building Structures). MNIQB, R.Bldr.	Building Structures/ Construction Materials Technology
6	O.O. Aina	Professor	B.Sc. (Building), M.Sc.; Ph.D. (Construction Management). MNIQB, R.Bldr.	Construction Management/ Productivity Studies
7	S. O. Ojo	Reader	B.Sc. (Civil Engrg), M.Sc.; PhD. (Construction. Management.), MASCE, ICIOB, MNSE, R. Engr.	Construction Management/ Procurement
8	O. Ata	Reader	B.Sc. (Building), M.Sc., Ph.D (Building Structures). MNIQB, R.Bldr.	Building Materials/ Construction Technology
9	J.A. Ayangade	Senior Lecturer	B.Sc. (Civil Engrg), M.Sc., Ph.D (Construction Management.), MNIM, MNSE, R. Engr.	Construction Management and Economics/ Professional Practice
10	S.O. Folagbade	Senior Lecturer	B.Sc. (Building), M.Sc. (Construction Technology; Structural Engineering); Ph.D (Civil Engineering), MNIQB. R.Bldr.	Building Materials/ Construction Technology
11	E.A.	Senior	B.Sc. (Building), M.Sc., Ph.D (Building	Building Services/

S/N	Name	Status	Qualifications	Areas of Specialization
	Olanipekun	Lecturer	Services). MNIQB.	Energy Management
12	G.E. Oseghale	Senior Lecturer	B.Sc. (Building), M.Sc. (Construction Management.),M.Phil.(Building Maintenance), Ph.D (Building Maintenance). MNIQB, R.Bldr.	Building Maintenance/ Facilities Management
13	S.O. Omojola	Lecturer I	B.Sc. (Building), M.Sc. (Civil Engrg.). M.Phil. (Building Maintenance), MNIQB.	Building Maintenance/ Construction Technology
14	A.J. Babafemi	Lecturer I	B.Sc. (Building), M.Sc., (Building Structures). Ph. D (Civil Engineering), MSAICE, MCSSA, MNIQB, R.Bldr.	Building Materials/ Construction Technology
15	J.T Kolawole	Assistant Lecturer	B.Sc. (Building), M.Sc. (Building Structures). MNIQB.	Building Materials/ Construction Technology
16	O. Olugboyega	Assistant Lecturer	OND (Building Tech.), B.Sc. (Building), MSc. (Construction Management). MNIQB.	Construction Management/ Construction Modeling
17	O. Fadele	Assistant Lecturer	B.Sc. (Building), M.Sc. (Civil Engineering), M.Phil. (Building Structures), MNIQB, R.Bldr.	Building Materials/ Construction Technology

ASSOCIATE LECTURTERS FROM COGNATE DEPARTMENTS IN THE UNIVERSITY

S/N	Name	Qualifications	Status	Specialization
1	F.M. Araloyin	B.Sc., M.Sc., Ph.D (Ife), ANIVS, RSV	Senior Lecturer	Real Estate Management and Valuation/ Agency
2	G.K. Ojo	B.Sc, M.Sc., Ph.D (Ife)	Senior Lecturer	Construction Economics / Cost Control and estimating/ Risk Management
3	A.O. Adunola	B.Sc., M.Sc., (Ife), Ph.D (South Africa)	Senior Lecturer	Architectural Science/ Architectural Graphics
4	S.O. Obayopo	B.Sc, M.Sc. (Ife), Ph.D (South Africa), MNSE, R. Engr.	Senior Lecturer	Thermo-fluid/ Thermodynamics and Energy Conservation

5	L.A. Bisiriyu	B.Sc., M.Sc., Ph.D (Ife)	Senior Lecturer	Demographic Statistics
6	M.O. Oyewole	B.Sc., M.Sc., Ph.D (Ife)	Senior Lecturer	Property Performance Measurement and Analysis
7	C.O. Oluwadare	B.Sc, M.Sc., Ph.D (Ife)	Lecturer I	Surveying/Geo-informatics
8	N.A. Musa	B.Sc., M.Sc., Ph.D (Ife)	Lecturer I	Construction Management/ Information Communication Technology
9	A. Opawole	B.Sc., M.Sc., Ph.D (Ife)	Lecturer I	Construction Management and Economics
10	S. O. Babatunde	B.Sc. (FUTA) , M.Sc. (Ife), PhD (NewCastle), MNIQS, RQS	Lecturer I	Construction Management and Economics
11	S.J. Odediran	B.Sc., M.Sc., (Ife), PhD (South Africa)	Lecturer I	Construction Management/ Measurement of Construction Works
12	O. Alao	B.Sc.,(FUTA), M.Sc., (Ife), MNIQS	Lecturer II	Measurement and Estimating of Construction Works.
13	O.A. Olojede	B.Sc., M.Sc., PhD (Ife), MNITP, RTP	Lecturer I	Land Use Planning and Transportation Studies
15	O.B. Olugbamila	B.Sc., M.Sc., Ph.D (Ife), MNITP, RTP	Lecturer I	Infrastructural Planning and Environmental Services
16	O.S. Alade	B..Sc., M.Sc., Ph.D (Japan), R. Engr.	Lecturer I	Environmental Modeling
17	A. Bamimore	B.Sc., M.Sc., Ph.D (Ife), R. Engr.	Lecturer I	Process System Engineering

(b) TECHNICAL AND ADMINISTRATIVE STAFF

Technical Staff			
S/N	Name	Qualification(s)	Status
1	M. Adeyemi	HND (Building Technology), PGD, B.Sc. (Building), MNIQB. R. Bldr.	Principal Technologist
2	R. Akindoyin	Secondary Modern School Certificate, Federal Craft Training Certificate (College Diploma), Federal Trade Test Certificate I, II & III, NECO, WAEC Technical	Senior Workshop Supervisor I
3	G.A. Olayiwola-Yekini	Secondary Modern School Certificate, WAEC, Technical Certificate, WASC, Trade Test I, II & III	Senior Workshop Supervisor I
4	F. Adesiyun	Federal Government Trade Test I, II, & III,	Technical Officer
5	M.A. Ojo	Labour Test I&II, C&G (General Welding)	Senior Workshop Supervisor (Welder)
6	E.A. Adeniji	Trade Test I,II&III, NABTEB, OND, HND	Foreman (Carpenter)
7	A.F. Odekunle	Trade Test I,II&III	Foreman (Mason)

8	M.O. Akande	Trade Test II&III, OND.	Technical Officer (Electrical)
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Administrative Staff			
S/N	Name	Qualification(s)	Status
1	C. M. Ogundare	Secondary Modern III Certificate, Pitman Advance Typing Certificate, Technical Diploma, E.D.P Certificate	Chief Secretariat Assistant
2	A.D. Mogaji	GCE O/L, Advanced Diploma, B.Sc.(Ed.) PHE, Diploma in Computer; M.Sc. (Education).	Senior Clerical Officer

CURRENT BACHELOR OF SCIENCE (BUILDING) PROGRAMME CURRICULUM

1.0 GENERAL PHILOSOPHY AND FUNDAMENTAL PRINCIPLES OF CURRICULUM DEVELOPMENT

Construction industry plays a vital role in the transformation of the physical terrain of any nation in its march towards greater civilisation and economic independence. It is also concerned with the assimilation and utilisation of exogenous developments in technology, management sciences and related sciences to enhance building performance the world over. Apart from these factors, the industry continuously strives to enhance the performance of buildings to make them safe, healthier, more comfortable to the user; more durable; easier, faster and less expensive to construct; and to a greater extent easier to manage and maintain. The attainment of these factors underscores the basic philosophy of building education which is to develop and advance the science and practice of building technology and construction management by employing the knowledge gained from various construction and management techniques for the site, the contract, the finance, building production and maintenance, as well as the solutions of multi-faceted problems of the built environment. There is therefore no gainsay in the statement that the building graduate stands in the forefront of those experts with a heightened awareness of health, safety and ethical responsibilities expected to face peculiar challenges of the Nigerian building and construction industry and break new grounds in all aspects of building techniques and processes and make the nation technologically great.

2.0 AIM AND OBJECTIVES OF BUILDING PROGRAMME

Shelter is the third universally accepted basic need of all homosapiens, after food and clothing. It is, however, the most difficult to satisfy because of the intrinsic factors involved in the provision of

human habitats. Several studies on the developmental programmes in the country have indicated the dire need for professionals in building research, planning and development sectors of the economy. Because the scope of activities in the building industry is quite wide, the prime objectives of the building programme in Obafemi Awolowo University therefore, is to produce graduates who will not only be competent in the science, technology and management of the building process but will also have specialized skills in at least one of four basic divisions of building namely: Construction Management, Building Structures, Building Services and Building Maintenance. He will also have sufficient generalized knowledge of other professions to be able to interact effectively in the coordination, the control, the channelization and the maintenance of the technological, human, economic and material resources involved in the building delivery process. The ultimate aim of this programme therefore, is to produce a graduate who can be put to work immediately upon engagement with little or no additional training of the employer as well as be acceptable for registration with **CORBON** (Council of Registered Builders of Nigeria) and other professional organisations involved in building process nationally and internationally. The prospective graduate is expected to be able to perform as a contract manager, premises manager, site agent/project manager, estimator, project management consultant, designer of building structures, building services experts, maintenance manager, facilities manager, and building officer/builder. He should also be able to function in the areas of building research, building finance, building economics, etc. The building graduate is equally expected to interact with other allied professionals in the construction industry and be fully equipped for public service and employment.

3.0 DEGREE OFFERED: The degree offered is B.Sc. in Building

4.0 ADMISSION REQUIREMENTS

Admission to the department can be satisfied by meeting the general University admission requirements as well as passing the relevant Senior Secondary School Certificate (SSC) Examination (or its equivalent) in the relevant subjects. A candidate can also be admitted to higher levels by meeting the basic and other requirements as stated below.

1. **ADMISSION TO PART I:** Through UTME (University Matriculation Examination)

To be eligible for admission, candidates must pass the SSC Examination or its equivalent at credit level in not less than 5 subjects and in not more than two sittings in Mathematics, Physics, Chemistry and English Language and any other subject selected from Technical Drawing, Economics, Further Mathematics, Fine Arts, Geography, Land Surveying and Building Construction.

UTME subjects: English Language, Chemistry, Physics and Mathematics or Technical Drawing

2. **DIRECT ENTRY -**

- a) Candidates for Direct Entry to Part II should have GCE (A) level or its equivalent with passes in Mathematics, Physics and Chemistry in not more than two sittings. In addition, candidates must satisfy the general entry requirements for admission to Part I as listed in 4(1)
- b) Holders of National Diploma (ND/OND) or its equivalent at not less than Upper Credit level in Building, Architecture, Quantity Surveying and Civil Engineering may be considered for direct entry to Part II provided that they:
 - (i) score not less than 60% at ND level and the subjects passed must include Mathematics and other science courses offered at ND II level (for example, basic courses in Structures and Building Science)
 - (ii) satisfy the entry requirements as stated in 4(1)
- c) Holders of Higher National Diploma (at not less than Upper Credit level) Certificate in Building or Quantity Surveying may be considered for admission to Part III subject to satisfactory pairing of courses passed in the previous institutions with those offered in the Department. Candidates must also satisfy 4(2b) in addition to the general conditions stipulated in 4(1)
- d) Holders of Higher National Diploma (at not less than Upper Credit level) Certificate in Architecture or Civil Engineering may be considered for admission to Part II provided they satisfy 4(2b) in addition to the general conditions stipulated in 4(1)

Special Admission: In exceptional cases, holders of HND (at lower credit level) in Building, Architecture, Quantity Surveying and Civil Engineering may be admitted to Part II provided they satisfy the general conditions stipulated in 4(1)

5.0 **REQUIREMENT FOR THE AWARD OF A DEGREE**

In order to be eligible for the B.Sc. (Honours) degree in Building, a student must complete or obtain exception from Part I or Parts I and II, as the case may be (See section 4(2), complete 12 units of approved special electives, to be taken outside the Faculty and then complete 172 units of compulsory courses 132 units if exempted from Part I, 90 units if exempted from parts I and (II), a minimum of 10 units and a maximum of 13 units of restricted electives and 15 units of SIWES/Industrial Training Experience (12 units if exempted from Parts 1 and 2).

The total number of units of compulsory courses to be taken from other departments within the Faculty is 29 (2 units from each of Departments of Architecture and Urban and Regional Planning, 4 units from the Department of Estate Management and 21 units from the Department of Quantity Surveying). A minimum of 2 units or a maximum of 3 units of restricted electives are expected to be taken from one of Departments of Quantity Surveying Estate Management and Urban and Regional Planning

6.0 GRADUATION REQUIREMENT

(A) Foundation Programme (Compulsory and Core Courses)

PART I

Course Code	Course Title	Units
BLD 101	Introduction to Building and Environment I	2
URP 103	Nature of Environmental Science	2
ARC 103	Graphic Communication	2
MTH 101	Elementary Mathematics I	5
PHY 101	General Physics I	4
CHM 101	Introduction to Chemistry I	4
CHM 103	Experimental Chemistry I	1
PHY 107	Experimental Physics 1A	1
BLD 102	Introduction to Building and Environment II	2
MTH 104	Vectors	2
MTH 102	Elementary Mathematics II	5
PHY 102	General Physics II	4
PHY 108	Experimental Physics 1B	1
CHM 102	Introduction to Chemistry II	4
CHM 104	Experimental Chemistry II	1

PART II

BLD 201	Building Construction and Materials II	2
BLD 203	Structural Mechanics and Strength of Materials I	3
BLD 205	Building and Architectural Science	2
ESM 203	Land Surveying I	2
QTS 211	Principles of Measurement and Description I	3
CSC 201	Computer Programming I	2
CHE 201	Engineering Thermodynamics	3
MTH 201	Mathematical Methods I	4
BLD 202	Building Construction and Materials II	2
BLD 204	Structural Mechanics and Strength of Materials II	3
BLD 206	Soil Mechanics	2
BLD 208	Business Organisation and Accounts	2
ESM 204	Land Surveying II	2
QTS 212	Principles of Measurement and Description II	3
CSC 208	Computer Programming II	2
MTH 202	Mathematical Method II	4

(B) DEPARTMENTAL REQUIREMENTS

PART I

Course Code	Course Title	Units
BLD 101	Introduction to Building and Environmental I	2
BLD 102	Introduction to Building and Environment II	2

PART II

BLD 200	SIWES (During Long Vacation)	3
BLD 201	Building Construction and Materials I	2
BLD 202	Building Construction and Materials II	2
BLD 203	Structural Mechanics and Strength of Materials I	3
BLD 204	Structural Mechanics and Strength of Materials II	3
BLD 205	Building and Architectural Science	2

BLD 206	Soil – Mechanics	2
BLD 208	Business Organisation and Accounts	2

PART III

BLD 300	Industrial Training	3
BLD 301	Building Construction and Materials III	2
BLD 302	Building Construction and Materials IV	2
BLD 303	Construction Technology I	3
BLD 304	Construction Technology II	3
BLD 305	Building Maintenance I	2
BLD 306	Building Maintenance II	2
BLD 307	Building Services and Equipment I	3
BLD 308	Building Services and Equipment II	3
BLD 309	Theory of Structures	3
BLD 310	Design of Reinforced Concrete Structures I	3
BLD 312	Project Planning and Control	3

PART IV

BLD 400	Industrial Training	9
BLD 401	Structural Analysis	3
BLD 403	Design of Reinforced Concrete Structure II	3
BLD 405	Principles of Construction Management	3
BLD 407	Building Services and Equipment III	2
BLD 411	Integrated Studio Project	3

PART V

BLD 501	Advanced Construction Technology I	3
BLD 502	Advanced Construction Technology II	3
BLD 503	Management of Building Projects	3
BLD 504	Advanced Project Management	2
BLD 505	Professional Practice	2
BLD 506	Design of Steel Structures	3
BLD 507	Project Dissertation I	3

BLD 508	Project Dissertation II	3
BLD 509	Construction Plant and Equipment	2
BLD 510	Productivity Studies on Sites	2
BLD 511	Highway Engineering	2
BLD 512	Building Materials Production Process	2
BLD 513	Systems Analysis in Construction	2
BLD 514	Construction Budgeting and Finance	2
BLD 515	Technology and Masonry Design	2
BLD 516	Information System and Management	2
BLD 517	Design of Timber Structures	2
BLD 518	Design of Highway Structures	2
BLD 519	Advanced Structural Analysis	2
BLD 520	Advanced Masonry Design	2
BLD 521	Fundamentals of Geotechnology	2
BLD 523	Acoustics	2
BLD 524	Advanced Design of Concrete Structures	2
BLD 525	Lighting	2
BLD 526	Advanced Geotechnology	2
BLD 527	Advanced Building Services Design Theory	2
BLD 528	Advanced Design of Steel Structures	2
BLD 529	Thermal Environmental	2
BLD 530	Advanced Building Acoustics	2
BLD 531	Advanced Maintenance Technology I	2
BLD 532	Advanced Lighting Design	2
BLD 533	Planning Systems	2
BLD 534	Thermodynamics and Heat Transfer	2
BLD 535	Maintenance of Building Electrical System	2
BLD 536	Integrated Environmental Design	2
BLD 537	Computer Applications in Building	2
BLD 538	Advanced Maintenance Technology II	2
BLD 540	Maintenance of Building Mechanical Systems	2

(C) RESTRICTED ELECTIVES (*: Outside the Department)

*URP 308	Rural Development Planning	3
*QTS 301	Measurement of Construction Works	2
*QTS 405	Construction Economics	2
*ESM 201	Introduction to Valuation	2
*MME 201	Introduction to Engineering Materials	2
*CSC 501	Introduction to Operation Research	2
*EEG 413	Electrical Energy Distribution	2
*MEE 522	Refrigeration and Air Conditioning	3

7.0 COURSE OUTLINE**HARMATTAN SEMESTER PART I**

CODE	COURSE TITLE	PRE-REQUISITIES	L	T	P	U
BLD 101	Introduction to Building and Environment I		1	0	3	2
URP 103	Nature of Environmental Science		1	0	3	2
ARC 103	Graphic Communication		0	0	6	2
MTH 101	Elementary Mathematics I		4	1	0	5
PHY 101	General Physics I		3	1	0	4
CHM 101	Introduction to Chemistry I		3	1	3	4
CHM103	Experimental Chemistry I		0	0	1	1
PHY 107	Experimental Physics 1A		0	0	3	1
	Special Elective		2	0	0	2
	Total		14	3	18	23
RAIN SEMESTER PART I						
BLD 102	Introduction to Building and Environment II		1	0	3	2
MTH 104	Vectors		2	0	0	2

MTH 102	Elementary Mathematics II	MTH 101	4	1	0	5
PHY 102	General Physics 1B	PHY 101	3	1	0	4
PHY 108	Experimental Physics 1B		0	0	3	1
CHM 102	Introduction to Chemistry II		3	1	3	4
CHM 104	Experimental Chemistry II		0	0	1	1
	Special elective		2	0	0	2
	Total		15	3	9	21

HARMATTAN SEMESTER PART II

CODE	COURSE TITLE	PRE-REQUISITES	L	T	P	U
BLD 201	Building Construction and Materials II	BLD 102	1	0	3	2
BLD 203	Structural Mechanics and Strength of Materials I	PHY 101	2	0	3	3
BLD 205	Building & Architectural Science		1	0	3	2
ESM 203	Land Surveying I		1	0	3	2
QTS 201	Principles of Measurement and Description I		1	1	3	3
CSC 201	Computer Programming I		2	0	3	3
CHE 201	Engineering Thermodynamics		2	0	3	3
MTH 201	Mathematical Method I	MTH 101/102	3	1	0	4
	Total		15	2	21	22

RAIN SEMESTER PART II

CODE	COURSE TITLE	PRE-REQUISITES	L	T	P	U
BLD 202	Building Construction and Materials II	BLD 201	1	0	3	2

BLD 310	Design of Reinforced Concrete Structures I		2	0	3	3
BLD 312	Project Planning and Control		2	0	3	3
SSC 202	Statistical Methods & Sources II	SSC 201	2	1	0	3
QTS 304	Tendering and Estimating II		2	0	3	3
	Special Electives		2	0	0	2
	Total		16	1	21	24

LONG VACATION

BLD 300 Industrial Training 0 0 9 3

HARMATTAN SEMESTER PART IV

BLD 401	Structural Analysis	BLD 309	2	0	3	3
BLD 403	Design of Reinforced Concrete Structure II	BLD 310	2	0	3	3
BLD 405	Principle of Construction Managements	BLD 312	1	1	3	3
BLD 407	Building Services and Equipment III		2	0	0	2
BLD 411	Integrated Studio Project		0	0	9	3
QTS 305	Building Economics I		2	1	0	3
QTS 409	Introduction to Building Contracts		2	0	0	2
	Sub-Total		11	2	18	
	Electives of 2/3 units from below					
	<u>Restricted Electives</u>					
URP 307	Rural Development Planning		2	0	3	3
QTS 301	Measurement of Const. Works	QTS 202	2	0	3	3
QTS 405	Construction Economics		2	0	0	3
ESM 201	Introduction to Valuation		1	0	3	2
MME 201	Introduction to Engineering Materials		2	0	3	3
	Grand Total					21/22

RAIN SEMESTER PART IV

BLD 400 Industrial Training 0 0 27 9

HARMATTAN SEMESTER PART V

BLD 501	Advanced Construction Technology I	BLD 303 & BLD 304	2	0	3	3
BLD 503	Management of Building Project	BLD 405	1	1	3	3
BLD 505	Professional Practice		1	1	0	3
BLD 507	Project Dissertation I		0	0	9	3
QTS 403	Tendering and Estimating III		2	0	3	3

	Sub-Total 4/5 units from an appropriate option below		6	2	18	14
	Grand Total					18/19

RAIN SEMESTER PART V

BLD 502	Advanced Construction Technology II	BLD 501	2	0	3	3
BLD 504	Advanced Project Management	BLD 503	1	0	3	2
QTS 306	Building Economics II	QTS 305	2	1	0	3
BLD 506	Design of Steel structures		2	0	3	3
BLD 508	Project Dissertation II	BLD 507	0	0	9	3
	Elective of 4/5 units from an appropriate option below		7	1	18	14
	Grand Total					18/19

PART V ELECTIVES

CONSTRUCTION MANAGEMENT

HARMATTAN SEMESTER

BLD 509	Construction plant & equipment		1	0	3	2
BLD 511	Highway Engineering		1	0	3	2
BLD 537	Computer Applications in Building		0	0	6	2
BLD 503	System Analysis in Construction		1	0	3	2
CSC 501	Introduction to Operation Research		2	1	0	3
RAIN SEMESTER						
BLD 510	Productivity Studies on Sites		1	0	3	2
BLD 512	Building Materials Production Process		1	0	3	2
BLD 514	Construction Budgeting and Finance		1	0	3	2
BLD 516	Information System and Management		1	0	3	2
BUILDING STRUCTURES						
HARMATTAN SEMESTER						
BLD 511	Highway Engineering		1	0	3	2
BLD 515	Technology and Masonry Design		1	0	3	2
BLD 517	Design of Timber Structures		1	0	3	2
BLD 519	Advanced Structural Analysis		1	0	3	2

BLD 521	Fundamentals of Geotechnology		1	0	3	2
BLD 537	Computer Applications in Building		0	0	6	2
RAIN SEMESTER						
BLD 518	Design of Highway Structures		1	0	3	2
BLD 520	Advanced Masonry Design		1	0	3	2
BLD 524	Advanced Design of Concrete Structures		1	0	3	2
BLD 526	Advanced Geotechnology		1	0	3	2
BLD 528	Advanced Design of Steel Structures		0	0	6	2
BUILDING SERVICES HARMATTAN SEMESTER						
BLD 523	Acoustics		1	0	3	2
BLD 525	Lighting		1	0	3	2
BLD 527	Advanced Building Services Design Theory		1	0	3	2
BLD 529	Thermal Environment		1	0	3	2
BLD 537	Computer Applications in Building		0	0	6	2
EEG 413	Electrical Energy Distribution		1	0	3	2
CSC 501	Introduction to Operations Research		2	1	0	3

RAIN SEMESTER						
BLD 538	Advanced Maintenance Technology II		1	0	3	2
BLD 540	Maintenance of Building Mechanical System		1	0	3	2
BLD 514	Construction Budgeting and Finance		1	0	3	2
BLD 516	Information System and Management		1	0	3	2

8.0 COURSE CONTENTS

BLD 101 – Introduction to Building and Environment I

History of Building: Functions and Types of Buildings. The Professional Builder: Definition; scope of duties; future prospects; relationship with other professionals in the Construction Industry. Analysis of the various options available in the Building Profession: Construction Technology, Building Services, Construction Management, Building Maintenance and Building Structures. Functions and illustration of various building elements and components – foundations, floors, walls, beams, lintels, columns, roofs, windows, doors, etc. Visit to construction sites.

BLD 102 – Introduction to Building and Environment II

Drawing Instruments, layout of drawings and geometric constructions. Multi-view drawings and graphical representation. Traditional Housing design and development in Nigeria. Elemental composition of a building in relation to the environment and functional requirements. Brief discussion on plants and equipment required on construction site. Organisational Structure and Personnel involved in Construction. Local Materials utilisation in low cost mass housing. Socio-cultural and climatic conditions as they affect building design in Nigeria. Analytical tools for problem solution in building provision. Economic factors affecting building provision: economics and concepts of production, methods of production, pricing methods. Building drawings. Presentation of road designs and simple examples of other Civil Engineering drawings.

BLD 201: Building Construction and Materials I

Site operations and construction personnel. Site Investigation and Site Preparation Processes. Site Organisation and Layout, Clearing, Levelling and Setting out. Excavations – soil classification, methods of excavation: (manual/mechanical). Tools for manual excavation. Problems of excavation (including Site Drainage) and timbering to excavation. Design and construction detailing of elements of building: Foundations (to include subsoil/loading conditions), Floors – solid ground floors, Raised/Upper timber floors, Solid upper floors. Finishes. Modelling of building elements and components. Practicals.

BLD 202: Building Construction and Materials II

Walls: Load-bearing and Non load-bearing walls, Timber walling, Stones wall, Brick/block walls. Bonding, mortar mixes, d.p.c. Wall finishes – plastering, rendering, tyro-leaning, painting, etc. Openings in walls: Doors, Windows, Lintels, beams and columns, Arches. Stairs and fittings. Roofs and ceilings. Drainage – tools, equipment, materials and methods of installation. External Works and Landscaping: Fences and Fencing, Gates, Access roads, Landscaping etc. Preparation of

Architectural and Construction Drawings of a simple building up one-storey building. Modelling of building elements and components. Practicals

BLD 203: Structural Mechanics and Strength of Materials I

Introduction to mechanics and design of building structures. The object of structural design. Statics of Particles – Forces in a plane, Forces in space. Statics of Rigid bodies in two dimensions. Statics of rigid bodies in three dimensions. Properties of structural sections – centroid, First Moment of Area, Moments of Inertia, Compound, Sections Radius of Gyration, Polar moment of Inertia, Section modulus, Principal axes and Principal moments of inertia. Mohr's circles for moment and product of Inertia. Direct stress and strain – tension and compression. Stress/strain curves, Hooke's law, Poisson's effect, factor of safety, strain energy, initial stresses, suddenly applied loads, falling loads, creep under loading, fluctuating stress, fatigue under repeated stresses. Analysis of statically determinate structures: Trusses (Method of Joints, sections and graphical methods, calculation of displacement of joints), Beams, Frames, Cables, Shear force, axial force and Bending moment relationship and diagrams. Influence lines for trusses and simply supported beams.

BLD 204: Structural Mechanics and Strength of Materials

Shearing Stresses. Analysis of stress and strain (2/3 dimensions). Longitudinal stresses in Beams. Shearing Stresses in Beams. Beams of Two Materials. Combined Bending/Direct Stresses. Torsion. The Principle of Virtual work and its applications. Strain Energy/Complementary Energy and Applications. Deflection of Statically Determinate beams using different approaches. Elastic Buckling of columns and Beams. Vibration in Beams

BLD 205 – Building and Architectural Science

Environmental Physics – heat, light, sound. Psychophysics: Thermal design. Ventilation and Air Conditioning, Lighting System, light and illumination, Daylight in building, Noise and Building Acoustics, sound, reverberation and sound Insulation.

BLD 206 – Soil Mechanics

Introduction to soil theory, Properties of soil- their classification, behaviour etc. Soil water, permeability and flow seepage problems, Strength and deformation of soils, Stability of slopes; earth pressure. Soil stresses, settlements and movements due to loading. Bearing capacity of soils,

foundation settlement. Geotechnical investigation and tests. Soil strengthening and stabilization; lowering ground water. Binding agents and their effects/properties; soil exploration

BLD 208 – Business Organisation and Accounts

The course exposes the students to the financial activities of Building Contracting Firms. The forms of business organisation. The purposes and use of accounting for various enterprises. Basic accounting theory and its application to the needs of the building industry in general and construction project in particular. Methods of cost accounting and control, the financing of business organisation. The interpretation of company accounts.

BLD 301 – Building Construction and Materials III

Detailed study of materials and their performance in construction including clay, concrete, stones, timber, plastics, bricks, paints, metals and alloys, glass, bitumen, synthetic and reinforced polymer products, etc. Production, processing, evaluation and testing method; utilisation in construction and associated problems. Advances in composite tropical materials including terracrete, shwishcrete etc. CASE STUDIES: Clays in buildings: Clay products in buildings – foundation, floors, walls, ceilings, roofs, finishes; performance in buildings; maintenance problems. Maintenance aspects and associated problems. Plastic in buildings: Technology and manufacture; utilisation in buildings, performance in buildings, maintenance problems. Glass in buildings: Technology and manufacture; utilisation in buildings; a critique of glass as external curtain, maintenance aspects. Problems. Timber in Buildings: timber products in buildings; performance in buildings, maintenance problems.

BLD 302 – Building Construction and Materials IV

Concrete Technology. Detailing a very simple building. Builders drawings. Production of site drawings. Plants and Equipment and tools for builders. Basement/Retaining wall construction and water proofing. Plumbing – materials, methods/installation and pipe sizing. Electrical installation. Preparing schedules/specifications of finishes, doors, windows, reinforcement etc. (This should include specification writing). Development of new building materials/adaptation. Design and construction of temporary works.

BLD303 – Construction Technology I

Review of Site Investigation Processes, soil tests and general principle of foundation design (as taught in BLD 206). Preliminary operations to Foundation Construction. Spread Foundations. Buoyancy Rafts and Basements (Box foundations). Pier and Caisson Foundations. Piled Foundations – Driving equipment and construction methods. Geotechnical processes. Protection of Foundation structures against attack by soils and ground water. Walls – solid masonry, plain monolithic concrete, cross wall construction, reinforced masonry, diaphragm and fine walls, panel walls, party and separating walls, external facings and movement control

BLD 304 – Construction Technology II

Multi-storey Structures – the frame and load bearing wall, choice of appropriate structure. Framed Structures – steel frame, reinforced concrete (In-Situ and Pre-cast) frame, RC wall, prestressed concrete movement control. Floor structures – Upper floors – choice and construction. Movement control. Vertical Circulations – stairs, ramps and ladders. Roof Structures – Beams, trusses and girders, rigid/portal frames, shells, folded slabs, space frames, single-layer grids, double layer grids, folded lattice plates, barrel vaults, domes tension structures, etc. Movement control in structures. Integration of Structures with services and equipment. Communication in Buildings. Underground and space surveys. Astronomy. Introduction to hydrologic/photogrammetric surveys. Mass haul diagram and associated quantities.

PRACTICALS IN BLD 303/304

Setting out of physical structures including buildings, estate roads, highway drains, curves etc. (to be carried out as practicals on site and workshop). Construction Workshop practice (Carpentry, Bricklaying, Plumbing, etc.).

BLD 305 – Building Maintenance I

This course deals with building maintenance technology. Decay of building – agencies involved. Alterations, conversion, extension, improvement in building dimensional consideration. Design defects and remedies. Structural survey of building, specification writing and schedule of dilapidations to include: Measurement of maintenance works, maintenance of mechanical/electrical services

BLD 306 – Building Maintenance II

The course deals with the management aspects of building maintenance. Maintenance cycles for different types of buildings, standard expected of buildings. Maintenance strategies repair/replacement theory, sensitivity analysis, planning maintenance – resources required, programme execution, appraisal policy guidelines. Applications of other Operation Research and other General Management Techniques to Building Maintenance. Landlord/Tenant relationship and other legal matters.

BLD 307 – Building Services and Equipment I

Hydrology, water and wastewater management: Water Supply: prospecting, purification, storage and township boreholes, dams, network analysis, pipe sizing etc. distribution to communities, domestic, industrial and commercial application of fluid dynamics for solving practical problems, needs, statutory provision. Bye-Law requirements. Cold and hot water storage and distribution in buildings. Foul, surface water and real drainage, solid waste management (Refuse disposal, etc.) Sewage treatment/disposal. Detailed measurement of mechanical installations, drainage and external works. Related project work/examples of overall system design with calculations.

BLD 308 – Building Services and Equipment II

Analysis and theoretical/practical design of Lifts, Escalator, Hoists etc. Gas: Production, township distribution and installation within-buildings etc. application of gas law and other relevant equations for solving practical problems. Fire: Analysis, causes, design, prevention and control, etc. principles of fire fighting and associated equipment, byelaw, regulations, codes affecting fire services etc. Visits to sites to appreciate the practical implication of the theoretical frame-works. Practical design for live projects.

BLD 309 – Theory of Structure

Deflection analysis of statically indeterminate structures- (beams and trusses). Analysis of statically indeterminate trusses – application of energy methods. Analysis of statically indeterminate beams and frames using three moment equations, slope deflection equations and Hardy Cross method of moment distribution. Cantilever and Portal Methods of Moment Distribution. Column Analogy: Influence Lines applied to statically indeterminate structures.

BLD 310 – Design of Reinforced Concrete Structures I

Introduction to reinforced concrete structures. Properties of steel and concrete. The typical building frame – columns, main beams, secondary beams and slabs. Introduction to reinforced concrete design – CP 114, CP 110, BS8110. Serviceability limit states: cracking, deflection, anchorage, bond and curtailment. Design of singly reinforced concrete beams, doubly reinforced and flanged beams including design for shear reinforcement. Design of axially loaded columns. Design of simple one way slabs, stair cases and two-way slabs. Structural Detailing.

BLD 312 – Project Planning and Control

The course deals with the sequence, organisation and control of projects and the interrelationship between various professional groups involved in the development of capital projects. The meaning of management and its role in construction. The nature of capital projects – client, consultants and contractors. Management tools/techniques (CPM, Bar charts, LOB, etc.) Tender analysis. Building management procedures from inception to completion. Co-ordination; control and supervision of simple and multiple contracts, site layout, report for management. Financing capital projects; working capital flow of funds. Legal implication of building contract. Regional organisation of typical professional offices.

BLD 401 – Structural Analysis

Introduction to Kani's method of moment distribution. Matrix methods of structural analysis (stiffness and flexibility). Applications to beams, plane frames, trusses and grillage/grid (Plane and space) structures. Plastic method of analysis.

BLD 403 – Design of Reinforced Concrete Structures II

Design and Detailing of columns subject to Moments including Biaxial Bending. Slender columns. Design of Plain and Reinforced concrete walls. Design and Detailing of Ribbed/Waffle slabs (solid or hollow blocks or voids), flat slabs. Design and Detailing of foundations. Pad (axially and eccentrically loaded). Wall, strip and combined. Raft, Pile. Retaining walls (gravity, counterfort and Cantilever). Design and detailing of water – retaining and precast concrete structures (Swimming pools, underground, surface and elevated tanks). Torsion in reinforced concrete. Introduction to the design of prestressed concrete structures. Term Projects: (1) Complete Design and Detailing of a

Multi-Storey. Reinforced concrete framed building (including design for ties) (2) Design and Detailing of a water-retaining structure.

BLD 405 – Principles of Construction Management and Production Management

The course deals with management principles and practice generally, management science, organisation theory, their application to building projects. Personnel Management. Communication and Communicating System. Introduction to decision theory. Financial and Cost Accounting. Financial and Cost Management. Appraisal and control of capital project from inception to completion. Planning: Pre-tender planning, method statement; short-term and long-term planning and scheduling techniques. Materials supply. Purchasing allocation and levelling. Cost optimisation, cost control of site work. Safety on Construction site and quality management. Site meetings. Site records.

BLD 407 – Building Services III

Telephone and P.A. Services. National communications network. Communication within buildings. PAY, PABX, PMBX systems. Public Address Systems. Fire alarm systems related to communication and fire control processes in buildings. Advanced water supply and distribution networks for towns, industrial and domestic purposes. Advanced wastewater management. Advanced gas supply system for towns, industrial and domestic purposes. Installation, metering and scale of tariffs. Measurement of Electrical Installations including wiring systems. IEE Regulations – Project – overall system design with calculations (for both mechanical and electrical services using full scale Engineering/M & E drawings and specifications/symbols).

BLD 411 – Integrated Studio Work/Technical Report Writing

This is essentially a studio work to unify the entire courses offered by the main stream of students. Solutions to set assignments (architectural, structural, services design, preparation of estimates and quantities maintenance surveys materials and structural testing with adequate clarity and against a time frame. It also treats the roles of technical report in building, projects fundamental principles of technical writing. Format of different types of reports – outlines, scope and purposes, technical discussion and details. Role of appendix, functions of diagrams tables and illustrations, nature of recommendations and conclusions. Writing memoranda, business letter, formal and informal reports.

BLD 501 – Advanced Construction Technology I

The course deals with complex contemporary buildings and specialised topics in construction technology. Construction in shallow and deep waters. Construction of Tunnels and Railway Tracks, Retaining walls. Construction of railway tracks. Applications in swimming pools, jetties, harbour works, anchorage, embankment stabilization, retaining wall, construction and coffer dam construction. Evaluation of alternative structural forms, performance of structural systems and building envelope. Prefabrication: Design techniques (Modular coordination, etc), production techniques (factory, on-site) and assembly techniques (material handling, fixings, fastenings, jointing techniques, etc). Industrialised systems building versus traditional solution. Standardisation, quality control and dimensional accuracies in buildings. Proprietary system in buildings.

BLD 502 – Advanced Construction Technology II

The course deals with specialised topics in construction technology, including industrial processes and engineering services required for effective functions. Mechanical plant and equipment. Large open roof systems (as applicable in large-span roof design and construction e.g. in amphitheatres etc). Piling systems. Dam Construction. Construction of Bridges and Roads. Introduction to Civil Engineering measurements. Case studies on building failures.

BLD 503 – Management of Building Projects

The course deals with building production procedures and practices, which facilitate high productivity on the building site. Technique of project management. Clients, consultants and contractors managerial staff relations. Co-ordination of effort of designers sub-contractors etc. with the construction process. The role of mechanical plant in construction project management.

BLD 504 – Advanced Project Management

The course deals with the practice of project management as a direct service to clients on an in-house or consultancy basis. Analysis of management thoughts, the use of electronic computers in feasibility analysis, design, execution and management of building projects including management technology, financial appraisal and use of scarce resources. Marketing of Construction and Construction products. Construction Risk Management. Quantitative Management and Applications. Resource management and Inventory

BLD 505 – Professional Practice

The course deals with principles of good practices by professional builders in relation to other sister professions and the interest of clients and the public. The NIOB rules of Professional practice. The Registration Board and its regulations. Joint consultative council. SIWES programmes. Partnerships and consortia, design and building constructions. Roles of Professional Builders. Tendering and bidding strategies. Consultancy practices and their regulations.

BLD 506 – Design of Steel Structures

Introduction to steel structures; production and properties of steel and steel systems. Specification of strength and yield stresses of steels; other properties. Basic structural steel sections, traditional hot rolled sections, cased sections, composite sections, steel cables. Corrosion protection of steel structures. Fire protection. Introduction to BS 449 and BS 5950 (Parts 1 & 2). Structural forms of steel work. Design of basic structural elements i.e. axially loaded members, beams and columns. Simple truss design. Design of connections: bolting, riveting & welding, rigid and semi-rigid connections. Column connections to foundations. Web buckling, web crushing and lateral torsional buckling. Design of Plate Girders. Design of Industrial Buildings.

BLD 507 – Project Dissertation I

Each student is expected to work on an independent project involving practical and scientific investigations. The report may end at analysis and report stage or extend to a design solution. The course will last a whole session.

BLD 508 – Project Dissertation II

Each student is expected to work on an independent project involving practical and scientific investigations. The report may end at analysis and report stage or extend to a design solution. The course will last a whole session.

BLD 509 – Construction Plant and Equipment

Technical improvements in construction plant and equipment have caused a movement away from manual labour towards mechanisation of construction sites. This course provides adequate information in this topic. Fixed position excavating machines; the bulldozer, scraper, grader, the loader shovel. Special excavating equipment cranes; shear legs and derrick tower cranes; gantry

(portal) crane hoist. Fork lift, truck concrete pump etc. Economic comparison of plant alternatives plant profitability and acquisition. Systematic plant selection, calculating plant hire rate. Plant maintenance.

BLD 510 – Productivity Studies on Site

The course is aimed at increasing productivity of building construction by analysing typical methods of construction and production processes. Work study flow charts – Principles and Techniques. Production targets and incentives. Case Studies.

BLD 511 – Highway Engineering

The course deals with the basic elements of highway design and Construction as a primary infrastructures. Planning requirement and layout. Traffic surveys. Road design, construction and maintenance. Highway structures. Low cost roads, footpath and giver ways. Location of services.

BLD 512 – Advanced Building Production/Process

The course is designed to expose the students to advanced system of building by highlighting possibilities now and future for examples: soil strengthening, system of prefabrication, self-weathering applied finishes, jointless flooring.

BLD 513 – Systems Analysis in Construction

System approach to planning; design and operation of large scale physical system: economic and building concepts: linear programming; network and decision analysis; concepts of problem formulation, synthesis and analysis. Applications to building and construction problems.

BLD 514 – Construction Budgeting and Finance

Introduction to forms of Business Organisation: Formations, Operations and Structures of business organisations. Financing of business organisations and construction projects. Risks involved in construction financing. Insurance issues in construction financing. Accounting Theory, Cost Accounting and Purpose of Accounting. Budgeting, control systems and capital budgeting cost control. Working Capital. Profitability Case Studies.

BLD 515 – Technology and Masonry Design

Introduction to design and technology. Masonry types, stone, bricks, blocks, mortar, materials, properties, reinforcement. Durability of masonry structures. Movement of masonry moistures. Movement and thermal movement. Bonding and workmanship. Calculating structural masonry. Introduction to BS 5628 and CP 111 Empirical method – Building regulation.

BLD 516 – Information System and Management

Definition of information needs use. Communication theory, and sources of information; reliability and interpretation of external information for management purposes; design of management information systems. Applications of GIS to Information System and Management in construction.

BLD 517 – Design of Timber Structures

Introduction to structural timber. History of timber houses; beams roof construction, etc. Structural timber today. Properties of timber and wood based materials. Timber preservation and fire retardant treatments. Timber structures manufacturing and assembly procedures. Forms of timber and wood-based materials. Structural forms and design; introduction to CP 112 and BS. Design of solid timber laminated sections, trusses and girders, portal frames and arches. Spatial structures, surface structures. Joints in structural timber; classification of joints, structural jointing by adhesives. Jointing by nails or staples.

BLD 518 – Design of Highway Structures

Highway standards, design speeds, geometric design for cross sections, grade, alignment, channelisation; inter-sections including grade, rotary and grade separations; highway drainage and open channel designs, culvert designs, bridges, sub-grade, sub-base and pavement design; route location; construction of cuts and embankments, bituminous and concrete pavement design.

BLD 519 – Advanced Structural Analysis

Computer applications of matrix methods of structural analysis. Introduction to finite element methods. Introduction to theory of elasticity. Theory of plates and shells. Buckling of structures.

BLD 520 – Advanced Masonry Design

Isotropic and orthotropic masonry. Rayleigh's method of analysis. Dynamic behaviour of masonry structures; multi-degree of freedom systems. Finite element analysis of masonry structures. Bending, shear and temperature deflection. Design of high rise external and internal walls and cantilevers.

BLD 521 – Fundamentals of Geotechnology

Review of Site Investigation Procedures (to include compaction and location of suitable highway subgrade materials). Design of Shallow foundations to include strips and rafts and special footings (e.g. Beam/Mat on elastic foundation). Deep foundations to include piles (Static and Dynamic analysis), piers and caissons. Retaining Structures (Lateral Earth Pressure, Retaining walls, cantilevered and anchored sheet piles, Braced, Tieback and Slurry walls for excavations, cellular cofferdams). Earth dams. Design of foundations for vibration control.

BLD 523 – Acoustics

* Acoustic principles involved in the designs and use of loudspeakers. Microphones, amplifiers, sound level metres, B.F.O's audiospectrometres, tape recorders, pen level recorders. Growth and decay of sound in enclosures. Design of room shape-wave and geometrical acoustics. Speech and music. Sound insulation and absorption. Acoustic models. Noise and the laws. Construction to ultrasonic and underwater acoustics. Practical and tutorial work covers: Calibration of a probe microphone, Frequency and directional characteristics of a loudspeaker, Measurement of reverberation time of Oduduwa Hall or Agric Lecture Theatre, Absorption coefficient of materials by (i) standing wave method (ii) reverberation chamber method, Airborne and impact noise insulation of student flat, Investigation of the sound distribution in a room and model of that room
Analysis speech and music,

BLD 524 – Advanced Design of Concrete Structures

* Detailed Treatment of Yield line theory. Yield Line theory, Basic Johnansen Theorems Equilibrium and Energy Methods; Isotropic and Orthotropic slabs – Affine and Ultra Affine Method; Strip Method of Design. Design and Detailing of Roof Slabs (Pitched and Folded Plate). Shells (Barrel Vault and Dome), Hyperbolic paraboloid (Normal and Inverted). Design and Detailing of Compiled Stairs (Cantilever, Jack-knife, open spiral, spins beam with open risers, precast flights to in-situ landings),

columns (heavily reinforced, raking struts, spread columns including treatment of Junction details). Design and Detailing of Tall buildings (Design and Analysis considerations; Planar lateral – load-resisting elements – rigid frames, shear and lift walls, coupled shear walls, shear walls connected to columns, wall frames; interaction between bents; three-dimensional structures – classification and computer modelling, non-planar shear walls, framed tube structures. C.R.P Laminates and Sandwich Panels. Design of Frameworks – Portal frames; water tower support, H and A frames. For precast wall units, Box frames for elevated corridors. Statically Indeterminate Prestressed concrete structures. Introduction to Bridge Design. Term Projects – To cover the major divisions of the Syllabus and encourage the use of Computer aided design (CAD).

BLD 525 – LIGHTING

Study of appliances: Incandescent electric lamps, Discharge lamps, Fluorescent lamp. Control gear Luminance design and construction. Illuminance and luminance calculations for complicated systems and buildings. Practical and tutorial work. Illuminance and luminance measurement. Light output and distribution of electric lamp.

BLD 526 – Advanced Geotechnology

Further principles of site investigation including boreholing or disturbed and undisturbed soil sampling as well as ground water exploitation; tunnelling practice; elastic theories and soil deformation; yield/slip line; limit and equilibrium analysis, plasticity, rheology and critical state in soils.

BLD 527 – Advanced Building Services Design Theory

This subject covers the systematic approach to decision making in building services design. The topics to be covered relate statistical laws and economic laws explicit to the physical laws governing services design. The following topics will be covered: Introduction to building services design theory. The statistical laws of demand. The economic laws of supply and distribution. Individual building services sub-systems. Total systems.

BLD 528 – Advanced Design of Steel Structures

Plastic design of Steel Structures. Composite construction. Web buckling, web crushing and lateral torsional buckling. Design of Vierendeel girders. Multi-storey steel structures and framing methods. Introduction to design of steel bridges. Tensile structures – stressed skin, suspended cables, arches.

BLD 529 – Thermal Environment

Thermal Environment and its measurement. Measurement of Air temperature, air velocity, air humidity and moisture content, radiation, surface temperature. Thermodynamic properties of the environmental fluid. Fundamental properties of air and water vapour mixtures, the gas laws, Pure and applied psychometrics. Ventilation and control of ventilation. Physiological considerations, control of odours and contaminants, control of airborne bacteria and infection, dilution and decay techniques, air distribution. Air filtration. Heating, cooling and ventilation, introduction to systems.

BLD 530 – Advanced Building Acoustics

Propagation of noise outdoors. Transport noise road, rail and aircraft. Impulse noise. Vibration measurement and control. Effect of vibration on man, criteria. Noise in piping and duct system. Equipment noise – mechanical and electrical. Practical and tutorial work covers. Road traffic noise survey and analysis. Measurement and analysis of impulse noise. Analysis of machine noise with sound power catimations. Vibration measurements and analysis to investigate the effectiveness of (a) vibration insulation systems (b) damping.

BLD 531 – Advanced Building Maintenance Technology I

Planning, financing, executing and supervising maintenance work. Case studies. Measurement and existing of maintenance work.

BLD 532 – Advanced Lighting Design

Specialist application and their varying requirements. Integrated ceiling. Exterior lighting, decorative flood, street, sports, tunnel. Vision and perception. Sunlight and window design. Day light and electric light integration. Daylight planning and legal requirements. Practical and tutorial work

Sunlight studies, perception studies. Heat generated by lighting. Models to investigate effect of window shape, size and position for day-lighting. Field studies of artificial and daylighting.

BLD 533 – Planning Systems

Relationship of planning to maintenance. Objectives of planning. Components of planning. Schedule/contingency systems. Factors influencing delay time. Programming problems. Long-term programmes. Annual programmes. Short term programmes. Planned inspections. Network analysis

BLD 534 – Thermodynamics & Heat Transfer

The Second Law of Thermodynamics. Reciprocating machines. Application of First Law to reciprocating machines. Efficiencies utilization of the cooling system etc. Power cycles. Thermal efficiency and work ratio, Carnot vapour and Rankine cycles, superheat, air standard cycles and applications (Emphasis on vapour compression heat pump cycles). Brief introduction of cooling cycles. Heat pump energy ratio. C.O.P. reversed carnot cycles and refrigerants. Intropy calculations. Heat transfer. Convection (qualitative and quantitative) LMTD in heat exchangers, parallel and counterflow modes, introduction to boundary layer for plate and tubes, nusselt and raudtil and ryncldc numers for both laminar turbulent flow. Dimensional analysis for forced convection. Radiation (Qualitative and quantitative). Steam-Butzmann Law, Emiasivity, Krchofts Law, Radiation. Exchange factors and factors and heat transfer coefficients. Convective and radiative modes. Periodic Heat flow (Qualitative and Quantitative). N.T.U. and Newtonian heating and cooling applied to buildings. Building introduction to heat transfer (qualitative only). Hardware, flow patterns, fins, tubes, pins, air/hot water and Steam heat exchange, water/hot water and steam heat exchangers (shell and tube). Energy conservation in Buildings.

BLD 535 – Maintenance of Building Electrical Systems

Basic principles of electric maintenance. Maintenance of electrical. Systems in building, estates, factories, and other specialised Physical structures, Trouble shooting and preventive systems Electrical systems in construction plants, etc.

BLD 536 - Integrated Environmental Design

Various advanced aspects of the application of light, heat and sound in building technology. Energy conservation in buildings. Retrofit. Hybrid systems. ERE admittance method. Project. Application of energy conservation strategies in now of retrofit building.

BLD 537 – Computer Applications in Building

The course deals with the applications of relevant modern software packages in different aspects of Building. The students in also expected to write simple programmes in BASIC FORTRAN, etc to solve simple problems in building.

BLD 538 – Advanced Building Maintenance Technology II

Building maintenance problems and their solutions to the following Foundations problems waterproof leaking basement paved and grassed areas. Cladding brick-work stone-work, structures frames condensation timber defects, floors, cases, sound insulation thermal insulation, vibration, External finishes grazing. Hot water supply plumbing air conditioning, mechanical fans, Scope of alteration and improvements, moderation of buildings dilapidations.

BLD 540 – Maintenance of Building Mechanical Systems

Basic principles of mechanical systems maintenance. Maintenance of mechanical systems in the natarors factors and other specialised physical plants and equipment etc.

SERVICE COURES TO ARCHITECTURE DEPARTMENT

BLD 311 – Structural Theory and Design I

Introduction to structural forms and systems, Solid Structures- skeletal structures, surface structures. Structural systems – arches, Cables, shells pneumatic structures etc. Estimating of loads on buildings (dead load, live load, wind load). Deflection analysis of statically determinate and indeterminate structures. Three-moment: application to continuous beams only

BLD 314: Structural theory and Design II

Slope deflection equations and applications to beams and frames. Moment distribution: applications to continuous beams and frames. Introduction to reinforced concrete design philosophies – working

stress, factor method and limit states. Review of properties and behaviour of concrete and steel strength. Durability, effect of temperatures, etc.

BLD 421- Analysis and Design of Timber and Steel Structures

Introduction to Structural timber. Analysis of stresses on wood. Properties of timber and wood-based materials. Design of timber structures – solid and skeletal, trusses and girders, portal frames and arches. Spatial structures. Design of joints in Structural timber. Criteria for selection of structural systems in steel. Design of steel beams. Design of joints and connections in steel.

BLD 422 – Analysis and Design of Concrete Structures

Review of Structural Analysis Techniques. Introduction to code of Practice BS 8110. Criteria for selection of Structure systems in concretes. Serviceability Limit States: Cracking and deflection only. Design of Simple beams for bending and shear reinforcement. Design of one-way and two-way slabs including stairs.

Special Electives

12 Units of Special Electives are to be selected outside the Faculty of Environmental Design and Management.

		Units
SEA 001	Government and Administration of the Public Sector	2
SEA 002	Elements of Business Management	2
SED 001	Poverty and Health	2
SEE 001	Indigenous Education in Nigeria	2
SEE 002	Education, Customs and Society Organisation	2
SEG 001	Food Production and the Nation	2
SEG 002	Agriculture and Human Survival	2
SEH 001	Man and His Health	2
SEH 002	Community Health and Human Behaviour	2
SEL 001	Introduction to Law	2
SEL 002	Introduction to Legal Institution and Processes	2
SEO 001	Fundamentals of Human Behaviour I	2
SEO 002	Fundamentals of Human Behaviour II	2
SEO 003	Principles & Practice of Entrepreneurship & Self-Employment	2

SEO 004	Business Environment & Approaches to Business Start-Up	2
SEP 001	Drugs and Society I	2
SEP 002	Drugs and Society II	2
SER 001	Use of English	4
SER 002	Humanity and the African Experience	2
SES 001	Man and His Biological I	2
SES 002	Man and His Biological II	2
SET 001	Technology and Society I	2
SET 002	Technology and Society II	2

OTHER RELEVANT INFORMATION

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STUDENT REGISTRATION ON E-PORTAL

Visit e-portal URL directly on www.eportal.oauife.ng

OR

Visit OAU website with www.oauife.edu.ng and click “e-portal” from OAU Home page.

Form e-portal home page

Click “Payment/Registration (on-line)”

From Login Screen

Read additional directives and comply

Click on “Submit” to display your identity for confirmation

Click “OK”

Click again “Payment/Registration (online)” to display list of tables of Students.

From the Table List

Click on “Bio-Data Form” to display “Submit Information Form (MIS2)” and fill accordingly.

Click “Submit” to save your form.

THE DEPARTMENT WEBSITE AND STUDENT’S PORTAL

Students can also visit students’ portal at the Department’s website for day to day useful information relevant to making their stay at the Department and the University an easy and enjoyable one. To access go to www.oauife.edu.ng and click on “Department” and then “Building”.

CODE OF CONDUCT FOR STUDENTS

- (A) Allocation of Accommodation in the Halls of Residence
- i. A student shall not obtain accommodation by fraudulent means;
 - ii. A student shall not sell accommodation to another student;
 - iii. A student shall not keep non-students in rooms;
 - iv. A student shall not obtain double accommodation in one or more Halls of Residence.
 - v. An undergraduate student shall not take accommodation in the Postgraduate Hall.
 - vi. No Graduate Assistants and University Staff on Study Leave who takes Housing Allowance or is provided with accommodation shall take accommodation in the Postgraduate Hall.
 - vii. Part-time Postgraduate students shall not take accommodation in the Postgraduate Hall.
 - viii. A student shall not harbour any squatters in the Halls of Residence.

Sanctions

The following sanctions shall apply to any violation of the codes listed in IV (A) except where otherwise indicated.

- (1) Forfeiture of bed space and accommodation fees, ejection from the Hall and black-listing for the first offender(s)
- (2) Suspension from the University for a Semester for a second offender(s).

(3) Students violating items IV(A)(iii) and (iv) shall be made to appear before the University Disciplinary Committee.

(B) Inter-personal Relationship

- A student shall not be rude to University officials.
- A student shall not keep guest(s) and visitors in rooms outside the official visiting hours.
- A student shall not organize private parties in the Halls of Residence.
- A student shall not engage in betting and gambling activities
- A student shall not engage in thefts and attempted thefts.
- A student shall not engage in hemp smoking and drug abuse.
- A student shall not engage in cases of drunkenness and smoking in rooms.
- A student shall not engage in sexual assault and abuse;
- A student shall not engage in activities that constitute a threat to the life of other students;
- A student shall not be a member of any proscribed organization.
- A student shall not participate in any illegal or secret meetings organized by societies/fraternities.
- A student shall not participate in noisy religious worship in the Halls of Residence and outside of designated areas for religious worship without permission;
- A student shall not make a noise in the Halls of Residence
- A student shall not engage in any act that constitutes an offence under the laws of the country.

Sanctions

- 1) Offender shall face the Students Disciplinary Committee depending on the seriousness of the misconduct.
- 2) For IV(B)(ii) suspension for one semester from the Halls of Residence and forfeiture of bed space and accommodation fees.
- 3) For IV(B)(iii) suspension for one semester from the Halls of Residence and forfeiture of bed space and accommodation fees.
- 4) For IV(B)(iv)-(xi) and (xiv) the culprit shall be expelled from the Hall and made to appear before the University Disciplinary Committee.
- 5) For IV(B)(xii) the first offender shall be warned while the second offender shall be suspended and made to forfeit accommodation fees and for a third offender, expulsion from the Halls of Residence.
- 6) For IV(B)(xiii) the offender shall be warned. A persistence offender shall be expelled from the Halls of Residence.

(C) University Property

- i. A student shall not use high voltage appliances, tamper with or alter electrical installations in the rooms.
- ii. A student shall not damage or destroy carelessly any Hall property.
- iii. A student shall not take away door keys during vacations/closures.

- iv. A student shall not move any University illegally University property to personal use.
- v. A student shall not move any University property from one Hall to another.
- vi. A student shall not illegally occupy the Vice-Chancellor's Lodge and the residence of other University staff.
- vii. Student demonstrations resulting in the vandalism and/or theft of University property and those of staff shall not be allowed.
- viii. Unauthorized seizure of University property shall not be allowed.

Sanctions

- 1) A breach of item IV(C)(i) above shall be punishable with expulsion from the Halls or Residence.
- 2) A breach of item IV(C)(ii) and (iii) shall be punishable with the payment or 'reparation fees' to be determined by the Division of Maintenance Services and such students shall be liable to such other punishment e.g. with expulsion from the Hall for a Semester or a Session as may be determined by the Hall authority.
- 3) A breach of items IV(C)(iv)-(iii) shall be punishable by expulsion from the University.

(D) Environmental Issues

- i. A student shall not walk on/across the lawns
- ii. Indecent use of the bathrooms and toilets shall not be allowed
- iii. A student shall not wash clothes on the verandah.
- iv. A student shall not disturb ornamental plants.
- v. A student shall not ride a motor cycle within the Halls of Residence.
- vi. A student shall not cook in the rooms and along the corridors.
- vii. Indiscriminate littering of the environment shall not be allowed.
- viii. A student shall not discharge human waste in an unauthorized place.
- ix. A student shall not walk across the top of cover – ways
- x. A student shall not pour water from top floors.
- xi. A student shall not create unauthorized entrances in the Halls or Residence.

Sanctions

An persistent commission of the offences listed in IV(D)(i)-(xi) above may lead to expulsion of the offender from the Halls of Residence.

(E) Miscellaneous

- i. A student shall not climb wall fence.
- ii. A student who has been advised to withdraw from the University for any reason shall neither attend lectures nor live in any Hall of Residence.
- iii. A student shall not molest, intimidate or harass any University staff.
- iv. A student shall not invite and accommodate any outsiders who are not cleared with the Vice-Chancellor or any other authorized University functionary.

Sanctions

- 1) For items IV(E)(i) and (ii), offenders shall be ejected from the Hall and handed over to the University Security Unit immediately for other necessary action.
- 2) For items IV(E)(iii) and (iv), offenders shall be expelled from the University.

(F) Matriculation Oath

A student shall adhere strictly to his/her matriculation

Sanctions

Any student who violates his/her matriculation oath shall be appropriately disciplined for his/her failure to keep to the oath of allegiance to the University by the appropriate arm of the University.

1. THE NIGERIAN INSTITUTE OF BUILDING (NIOB)

The Nigerian Institute of Building (NIOB) is the professional body for Builders and those who are about to be engaged in Building profession. Since the statutory backing of Building as a profession in Nigeria by Builders Registration Decree 45 of 1989 (now ACT CAP B13LFN, 2004), the Institute has done a lot for the development of the profession, her members, government and the general public. The professional body which is known today as The Nigerian Institute of Building (NIOB) had its origin in a similar body called the “Builders Society” which was formed in 1834 by prominent Builders in London. It later became the Institute of Building in United Kingdom and now, The Chartered Institute of Building since 1980. Nigeria became the first overseas centre of Institute of Building in 1967. The Nigerian Centre of the Institute of Building became autonomous on November 5, 1970 and then got the name “The Nigerian Institute of Building (NIOB)”. This served as a catalyst for the establishment of other overseas centres of the Institute of Building (UK) in Australia, Canada, South Africa, Ghana and Kenya, to name just a few.

2. COUNCIL OF REGISTERED BUILDERS OF NIGERIA (CORBON)

The Council of Registered Builders of Nigeria (CORBON) was established by Builders’ Registration Decree No.45 of 1989 (now ACT Cap 40) to control and regulate the practice of Building profession in all its aspects and ramifications. The Decree gave statutory backing to the status, qualifications and functions of The Nigerian Institute of Building (NIOB). Statutorily, before a professional Builder could practice the profession, he or she must register with CORBON just as engineers are registered with the Council for the Regulation of Engineering in Nigeria (COREN), architects by Architects Registration Council of Nigeria (ARCON), town planners by Town Planners Council (TORPEC) etc. and remain registered throughout his professional career.

3. STUDENTS WORKS EXPERIENCE SCHEME (SIWES)

INTRODUCTION

The Student Industrial Work Experience Scheme (SIWES) is the accepted; skills training programme, which forms part of the approved Minimum Academic Standards in the various degree programmes for all the Nigerian Universities. It is an effort to bridge the gap existing between theory and practice of Engineering and Technology, Sciences, Agriculture, Medical, Management and other professional educational programmes in the Nigerian tertiary institutions. It is aimed at exposing students to machines and equipment, professional work methods and ways to safe-guarding the work areas and workers in industries and other organizations. The minimum duration for the SIWES should normally be 24 weeks except for Engineering and Technology programmes where the minimum duration is 40 weeks. The scheme is a tripartite programme, involving the students, the universities and the industry (employers of labour). It is founded by the Federal Government of Nigeria and jointly coordinated by the Industrial Training Fund (ITF) and the National Universities Commission (NUC).

OBJECTIVES OF SIWES

Specifically, the objectives of the Students Industrial Work Experience Scheme are to:

- (i) provide an avenue for students in the Nigerian universities to acquire industrial skills and experience in their course of study;
- (ii) prepare students for the work situation they are likely to meet after graduation;
- (iii) expose students to work-methods and techniques in handling equipment and machinery that may not be available in the universities;
- (iv) make the transition from the university to the world of work easier, and thus enhance students' contacts for later job placement;
- (v) provide students with an opportunity to apply their theoretical knowledge in real work situation, thereby bridging the gap between university work and actual practice; and
- (vi) enlist and strengthen employers' involvement in the entire educational process of preparing university graduates for employment in industry.

PHILOSOPHY OF JOB SPECIFICATION FOR SIWES

To facilitate the full realization of the objectives of SIWES, it is essential to ensure the proper training of the university students' in preparing them for the world of work. One important instrument for maintaining uniformity in high and consistent standards is the provision of university-wide job specifications for each programme. Job specification, is, therefore the breakdown of, or packaging of, a discipline into various tasks and task-element, which would serve as, a major guide not only for the students on industrial attachment but also for the industrialists. Thus, job specification involves the itemization of the tasks the university students are expected to perform while on industrial attachment along the lines of the theoretical knowledge imparted in the classrooms.

THE ROLE OF THE FEDERAL GOVERNMENT

- (i) Make adequate funds available to the Federal Ministry of Industry to fund the scheme;
- (ii) Make it mandatory for all Ministries Companies and Government parastatals, to offer attachment places to students;

- (iii) Make it a policy to include a clause in every major contract lasting over six to nine months being awarded for contractors to take student on attachment.

THE ROLE OF THE INDUSTRIAL TRAINING FUND (ITF)

- (i) Provide logistic material needed to administer the scheme,
- (ii) Complete lists of employers and available training places for industrial attachment and forward such lists to the Co-ordinating Agencies (i.e. NUC, NBTE, NCCE0);
- (iii) Organise biennial Conferences and Seminars on SIWES.

THE ROLE OF THE CO-ORDINATING AGENCY (NUC)

- (i) Establish SIWES Co-ordinating Units;
- (ii) Appoint full-time industrial Co-ordinators to operate the Scheme at Agency Level;
- (iii) Evolve a minimum national guide programme for supervised industrial training activities for approved SIWES courses;
- (iv) Vet and approve SIWES Master and Placement lists and forward to ITF;
- (v) In collaboration with ITF, compile lists of employers for institutions' placement lists;

THE ROLE OF INSTITUTIONS (UNIVERSITIES)

- (i) Establish SIWES Co-coordinating Units and appoint Department/Faculty SIWES Co-coordinators within the Institutions;
- (ii) Appoint full-time Industrial Co-coordinators to operate the Scheme at institutional level;
- (iii) Prepare and submit Master and Placement Lists to the respective co-coordinating agency and ITF;
- (iv) Place students on attachment with employers
- (v) Organise orientation programmes for students to prepare them for Industrial Training. ITF representative may be invited to give a talk to the students during the orientation programme;
- (vi) Work out industrial tailor-made programme with the employers-based supervisor on the National Industrial Training guidelines for each course.
- (vii) Supervise students on attachment and sign their log-books. A minimum of three visits should be made to the students by the institution's supervisor during the period of attachment.
- (viii) Assess students' performance and award grades accordingly;
- (ix) Submit completed ITF Form 8 to the ITF at the end of the programme;
- (x) Maintain separate account books for SIWES;
- (xi) Submit comprehensive reports on the Scheme to the ITF after the programme.

THE ROLE OF STUDENTS

- (i) Be regular and punctual at respective place of attachment;
- (ii) Comply with the Employers' rules and regulations;
- (iii) Keep proper records of training activities and other assignments in the Log-book;
- (iv) Arrange their own living accommodation during the period of attachment;
- (v) Submit to ITF through their employer Form SPE 1.

- (vi) Submit to ITF through their institutions the Evaluation Report Form 8 duly completed by the students, employers and the Institutions.

THE ROLE OF EMPLOYERS

- (i) Accept students and assign them to relevant on-the-job training;
- (ii) Attach experienced staff to students for effective training and supervision. Supervisors should not handle more than ten students at a time;
- (iii) Control and discipline students like permanent staff;
- (iv) Pay students' monthly allowances as at when due'
- (v) Provide medical care for students within the limits of the employers' conditions of service during attachment;
- (vi) Follow joint tailor-made programmes during the period of industrial training. The use of this handbook is emphasized.
- (vii) Permit representatives of ITF and institutions' -based supervisors to visit the students of attachment;
- (viii) Grade students, as provided in the Assessment Form and the ITF Form 8 at the end of the programme and submit same to the institutions.

ASSESSMENT AND MONITORING ELIGIBILITY

The SIWES is for the students who passed all core and compulsory courses. Those with repeat in such courses cannot benefit from the practical experience it offers.

Timing and Duration

The SIWES programme will take place during the 2nd semester of the fourth year of the five-year programme. All qualified students should take part in the scheme. The scheme will last a minimum of 15 weeks and will carry 18 credit hours.

Scoring

Industrial-Supervisors' assessment	-	20%
Log Book	-	20%
Technical Report by student	-	40%
Oral	-	10%
Institutional Supervisor's Assessment	-	10%
		100%

4. ASSOCIATION OF PROFESSIONAL BODIES OF NIGERIA - APBN

The Association of Professional Bodies of Nigeria – APBN was formed in 1983 as an umbrella body of recognized professional Institutes, Institutions and Associations to promote a new era of cooperation among professionals in Nigeria. APBN was set up to speak with one voice on behalf of its member bodies while at the same time give professional and proper technical advice to government on matters affecting the professionals and proper technical advice to government on matters affecting

the professionals and their practices. It is the apex organisation comprising professional bodies, whose main object is to provide Nigeria with an effective forum for transmitting to government the aggregate views of the nation's professionals on matters of public interest on which they are competent to express informed and enlightened views.

APBN was given official Federal Government recognition as the third leg of the tripod of the Organised Private Sector (OPS) in January, 1992. Although its activities started far back in 1983. APBN is actively involved in promoting and enhancing the status of professional bodies in Nigeria by ensuring maximum utilization of the talent, skills and knowledge of the Nigerian professionals. APBN believes that human welfare problems are multidimensional in nature and for this reason it pursues a multi-disciplinary approach to problem solving. In this regard, APBN discourages traditional professional jealousies, prejudice, intolerance, arrogance, self-centeredness and egoism. APBN believes that, in the interest of the wider society, no profession needs to operate in isolation of the other professional bodies.

As the third leg of Nigeria's development tripod – the APBN briefs include: (i) actively encouraging the exchange of ideas on subjects of common interest among professionals and for this purpose it collects and publishes literature which may result in the promotion of such interest. (ii) Playing active role in the socio-economic planning process and development of Nigeria. (iii) Involve in developing and maintaining cooperation with other similar professional bodies in other countries of the world (iv) provides library and information services on its constituent professional bodies, and (v) involve in promoting good relations and understanding among member bodies and other general public.

APBN has a constitution which guides its operations while its membership is open to recognized professionals bodies in Nigeria that satisfy certain laid down conditions. The structure of the Association is as follows:

- (i) The General Assembly which is made up of delegates of Member Bodes, meets once a year;
- (ii) the Board, which is made up of Presidents of Member Bodies and the Executive Council, meets quarterly and
- (iii) the Executive Council, which is made up of officers of the Association, meets once in two months. The Nigerian Institute of Building (NIOB) is a member of APBN.

Bldr. Bala KAOJE, PPNIQB, FNIOB, a Past President of The Nigerian Institute of Building has served as the President of the Association of Professional Bodies of Nigeria.

5. CAREER/EMPLOYMENT OPPORTUNITIES FOR GRADUATES

Builders are employed in the following broad sectors of the Nigerian economy:

Building construction companies, - Private consultancy firms of Builders' practices

Public Sector: Federal/ State Ministries, Parastatals and Local Governments: - Urban and Regional Planning Boards and Local Planning Authorities in all the states of the federation.

Nigerian Armed Forces: Army, Naval and Air Force; **Paramilitaries:** Police Force, Immigrations, Customs, Prisons etc.

Academic Sector: as Lecturers, Staff of Works and Services Departments.

Private Sector: Commercial, Merchant and Mortgage Banks/ Finance Houses, Insurances, Mining/ Petrochemical Industries, Oil and Gas Companies, Multinational Corporations, Building and Engineering Manufacturing Industries, Property Development Companies, Private Individuals etc.

BUILDING DEPARTMENTS IN PUBLIC AND PRIVATE SECTORS

In view of the importance of the Unique roles that Builders are expected to play in the effective planning, administration and execution of building projects, Federal/State/Local Government, Armed Forces and Private Sectors are directed not only to establish Building Department/Division/Unit but to also employ Builders to head such. This is expected to allow effective Professional Production Management of new Buildings and Maintenance of existing ones.

APPOINTMENT OF BUILDERS DURING STAGES OF BUILDING PROJECTS

Stages of building projects can be categorized into five namely Planning, Design, Costing, Production and Maintenance. The employers of labour in the building industry, public and sectors are expected to key into the training of builders in the tertiary institutions of learning to employ builders to contribute significantly towards the successful physical production of building projects. This can be achieved through direct employment of a Builder or appointment as a Consultant Builder.

CONSULTANCY SERVICES RENDERED BY FULLY REGISTERED BUILDERS

The major services rendered by Builders are as stated below:

Building Production Management, - Building Maintenance Management, - Project Management, Building Surveying, Feasibility and Viability Studies, Facilities Management, - Project Monitoring and Evaluation, and - Arbitration, Mediation and Expert Witness.

POSTGRADUATE PROGRAMMES IN THE DEPARTMENT

Postgraduate courses offered in the Department are: M.Sc. M.Phil./Ph.D in Building Services, Building Maintenance, Building Structures and Construction Management.

