

UNIVERSITY OF ILORIN, ILORIN, NIGERIA

STUDENTS' HANDBOOK

(UNDERGRADUATE PROGRAMME)

BENCHMARK MINIMUM ACADEMIC STANDARDS (BMAS)

DEPARTMENT OF CIVIL ENGINEERING FACULTY

OF ENGINEERING AND TECHNOLOGY

2026

DEPARTMENT CONTACTS

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NATIONAL ANTHEM

Nigeria we hail thee,
Our own dear native land,
Though tribe and tongue may differ,
In brotherhood, we stand,
Nigerians all, and proud to serve
Our sovereign Motherland.

Our flag shall be a symbol
That truth and justice reign,
In peace or battle honour'd,
And this we count as gain,
To hand on to our children
A banner without stain.

O God of all creation,
Grant this our one request,
Help us to build a nation
Where no man is oppressed,
And so with peace and plenty
Nigeria may be blessed.

THE UNILORIN ANTHEM
(The Alma Mater)
Music by Lavinia L. Odejimi
Words by: Lavinia L. Odejimi and Abraham T. J. Adavi

In Love, peace and harmony,
We shall build the tower of wisdom;
Unilorin!
Hear the clarion call,
In Unity we grow
Committed to the seat of our learnings,
Our hearts from vanities.
Standing firm in wisdom,
in knowledge and in truth,
We honour your virtues;
Unilorin, you stand in strength and pride,
Learning, winning, building, praying,
Showing the way for all who yearn;
Making a future for the ones who follow,
Rising high we must never turn.
Ilorin, Unilorin, your torch has guided us
Upwards and onwards,
Ilorin, Unilorin our Alma Mater,
We sing!

FORWARD

The purpose of this handbook is to provide guidance to students about the Department of Civil Engineering of the University of Ilorin. It also aims at acquainting students with the requirements of the Department, in particular for the successful completion of their academic pursuits in the University. Essentially contained in the handbook are information on admission requirements, registration of courses, course structure, grading system, industrial training and the requirements for graduation as a Civil Engineer. Also included is the list of the academic and non-academic staff and the respective areas of specialization. Information contained also include the laboratories, workshop and the housed equipment.

Students are implored to familiarise themselves with the content and other pertinent information of the university and to the regulations to make their sojourn in the Department fulfilling and graduate as worthy in both character and learning.

The Department was established with the other two traditional Engineering Departments, in the Faculty (Mechanical and Electrical) in 1978 and produced its first set of graduates in July 1983. Graduates of the university have since been meaningfully contributing to the engineering industry and profession. This is because they adequately respect the dictate of the students' handbook. You are also expected to follow suit to join your predecessors in the industry.

I therefore commend the handbook to you all, while wishing you happy and smooth learning stay in the Department.

Professor O. O. Adeleke
Head of Department

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PRINCIPAL OFFICERS OF THE UNIVERSITY

The Vice-Chancellor
Professor. Wahab Olasupo EGBEWOLE, SAN
LL.B (Hons) (Ile-Ife); B.L. (Lagos); LL.M (Ile-Ife); Ph.D. (Ilorin); FCArb, Fspsp, Fciml (USA), Fnipr

The Deputy Vice-Chancellor (Academic)
Professor. Moji Taibat BAKARE-ODUNOLA
B.Sc. (Maiduguri), M.Sc., Ph.D. (ABU Zaria)

The Deputy Vice-Chancellor (Management Services)
Professor. Olalere ADEYEMI
B.A., M.A., MPA., Ph.D. (Ilorin)

The Deputy Vice-Chancellor (Research, Technology & Innovation)
Professor. Muhtar Adeiza Etudaiye,
LL.B. (ABU Zaria), B.L. (Lagos), LL.M. (OAU), Ph.D. (Ilorin)

The Registrar
Mr. Mansur Adeleke ALFANLA
B.A. Comb. Hons. (Kano), LL.B. (Ilorin), B.L. (Abuja), LL.M. (Ilorin), fciml (USA)

The Bursar
Mr. Abiodun LAWAL
B.Sc. M.A (Ilorin), FCNA

The University Librarian
Professor. Kamal Tunde OMOPUPA
B.A. (LS) (Kano), MILR (Ilorin), MLIS (Ibadan), Ph.D. (SA), fciml (USA)

PRINCIPAL OFFICERS OF THE FACULTY

S/	Name	Qualifications	Position
1	J. O. Olaoye	B. Eng. M.Eng., Ph.D. (Ilorin), FNSE; FNIAE, FAEng. R.Engr. (Nigeria)	Professor & Dean
2	Mary A. Ajala	B.Tech; M.Tech; (Ogbomoso); Ph.D. (Minna); R.Eng. (Nigeria)	Senior Lecturer & Sub Dean
3	B. O. Ishola	B.A., M.Ed. (Ilorin)	Faculty Officer

PRINCIPAL OFFICERS OF THE DEPARTMENT

S/	Name	Qualifications	Position
1	I. T. Yusuf	B.Eng.; M.Eng.; Ph.D. (Ilorin); MNICE; MNSE; R. Eng. (Nigeria)	Professor & Head of Department
2	Mary E. Obans	NECO, Diploma (Human Kinetics); Computer training Cert.;CSE Cert.50WPM;	Secretary

1.0 HISTORY OF THE PROGRAMME: CIVIL ENGINEERING

1.1 Introduction

The Department of Civil Engineering was established in 1978. It admitted its first set of students the same year into the first year. This set graduated in 1983. The Department is devoted to preparation of graduates from the Department for professional practice in the design, construction and maintenance of structures (buildings, bridges, towers etc.), sanitary systems (water supply, sewage disposal etc), transportation systems (streets, highways, airports etc) and earth structure and foundations. Civil Engineers carry out their work through service in and for government agencies, in consulting firms and in construction firms and outfits. The curriculum for the Bachelor of Civil Engineering was planned to provide the graduate with solid foundation in the natural and physical Sciences, Mathematics and Engineering fundamentals. In addition, the programme focuses on various applications of the engineering fundamentals and acquisition of skills needed to function effectively as a professional in the society.

1.2 B.Eng. Degree Structure

The Bachelor of Engineering (B.Eng.) in Civil Engineering degree programme normally extends over a period of three, four or five academic years; depending on the students' entry qualification. Candidates with GCE Advanced Level or Equivalent Qualifications enter at 200-level and spend four academic years. Candidates admitted with West African School Certificate, GCE Ordinary Level or equivalent qualifications enter at 100-level and spend five academic years. Candidates with National Diploma or Higher National Diploma (with at least Upper Credit Grade Pass) in Civil Engineering or equivalent qualification are admitted to 200-Level or 300-level and spend four or three academic years respectively.

The 100-level year is spent taking courses in Physics, Chemistry and Mathematics at the Faculty of Physical Sciences and a few other courses

in the General Studies Unit, while the students spend the remaining years (200-500 levels) in the Department. At the 200 level, all courses are common to all engineering students in the Faculty, while the subsequent years are devoted progressively to more of Civil Engineering Core Courses.

An eight - week Student Work Experience Programme (SWEP) is organized for the 200-Level students in the Faculty at the end of an academic year. This is followed by three periods of approved industrial experience. The first one is for a period not less than 10 weeks during the vacation and immediately following the 300 Level academic year, while the second one is for a period of not less than 15 weeks during the Rain Semester of the 400-Level and there is the third one lasting for at least 10 weeks during the long vacation following the end of the 400-level year.

A 2-4-week Community-Based Experience Scheme (COBES) is organised on completion of the third industrial practice and immediately before the commencement of 500 level.

In the pursuance of the department's objectives, at the final year (500 level) students are given the opportunity to specialize in one of the major areas of Civil Engineering through the offer of optional courses. The major areas include Water Resources and Environmental Engineering, Geotechnical Engineering, Structural Engineering and Transportation Engineering. This approach makes for better preparation for the students who may wish to pursue post-graduate studies in their areas of special interest. Further details on the regulations governing examinations and the award of the degree may be found in the University Handbook on Academic Programmes.

1.3 Post-Graduate Courses Offered

The Department of Civil Engineering offers post-graduate degree programme leading to Master of Engineering (M.Eng. Civil) and Doctor of Philosophy (Ph.D. Civil) with specialization in the following areas:

1) Geotechnical Engineering and Foundations

2) Structural Engineering and Materials
3) Transportation Engineering and Highway Materials
4) Water Resources and Environmental Engineering

The Department of Civil Engineering also offers post-graduate degree programme leading to Master of Science (M.Sc.) with specialization in the following areas:

5) Integrated Water Resources Management (IWRM)

Details of the post-graduate degree courses being offered and regulations governing post-graduate degree programme may be found in the University Postgraduate Prospectus (2021 – 2025).

1.4 Overall Management of the Programme

1.4.1 Organization structure:

The Department is run under the leadership of a Head (Registered Engr), who is responsible to the Vice-Chancellor through the Dean of the Faculty. The Head assigns responsibilities and courses to academic and technical staff. The Department has Level Advisers, Examination Officers, Final year project Coordinator, SIWES Officer, SWEP Coordinator who handle various duties. There are also committees and boards which consider promotion, examination results, final year project, seminars, etc. There is a Postgraduate Coordinator (PG Coordinator) who assists the Head in the administration of the postgraduate programmes being run in the Department.

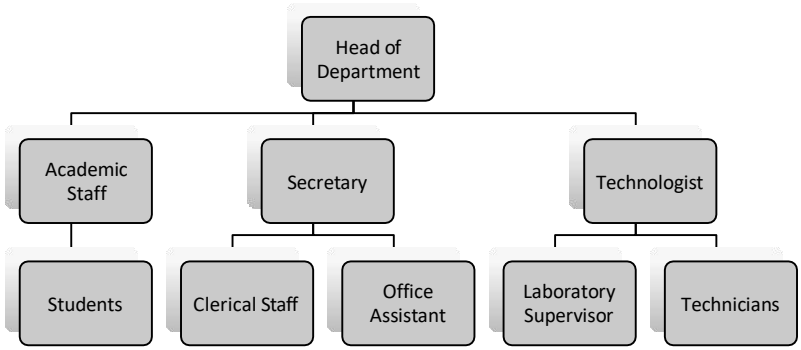


Figure 1: Organogram of the department of Civil Engineering

(a) Involvement of staff in Administration

This is achieved at the departmental level through:

(i) Assigned departmental responsibilities
(ii) Regular and emergency departmental meetings
(iii) Endorsements and discussions with individuals.

(b) Students' Welfare

(i) Handling of academic grievances is through:
- Investigation by Department and recommendation of Dean
- Consideration and decision by Faculty Board of Studies.

(ii) Student Academic Advising:

Lecturers serve as advisors. One lecturer is in charge of each level (100 level to 500 level). The list of advisers is reviewed and updated at the beginning of each academic session. Level advisers liaise with the Head of Department to assist students on course registration, examinations, release of results and other student welfare matters.

(c) Examinations

(i) Lecturers set examination questions to cover the syllabus for each course at the end of each semester. Continuous assessment (CA) which includes Assignments, Quizzes, Tests, and Class attendance are also conducted during the course of the semester.

(ii) Moderation:

- Internal moderation is done by the Head of Department
- External moderation by external examiners for final year question papers

(iii) Conduct – At the Faculty level, examination venues are assigned to contain student in several departments and at various levels. Invigilators are assigned to venues to ensure orderliness and strict compliance with examination rules and regulations.

(iv) Evaluation scheme – Final grades in each course are based on both continuous assessment and final semester examination score. The proportion for continuous assessment is usually 30 to 40 percent, while final examination carries 60 – 70 percent of the final grade.

(v) Moderation Schemes –In the final year question, marking schemes and marked answered scripts are moderated by external examiners. Final year projects are evaluated by respective supervisors as well as constituted Departmental panels for oral presentation and defence by students.

(vi) Issuance of Results – Results are first considered at departmental level, then considered by Faculty Board of Examiners, then the Business Committee of Senate (BCOS) and then approved by the University senate before being officially released to students. However, immediately on the approval of the Chief Internal Examiner, (the HOD), each lecturer is permitted to upload the results on the University website.

1.4.2 Academic atmosphere:

(a) Seminars -Professors, Lecturers and postgraduate students participate in presenting papers at the Faculty Seminar Series. Lecturers and students (undergraduate and postgraduate) from the department and other departments are usually in attendance.

(b) Staff and students are encouraged to make use of books/Journals/materials as appropriate in the various university libraries (University, Faculty and Department). There is an effective and operational e-Library wing of the University Library. In the Department, there is also a provision for an e-Library where staff who attend conferences and workshops do upload the proceedings of such conferences so that other members of the Department can take due advantage.

1.5 Staffing

1.5.1 Academic staff of the department

S/N	Name	Rank	Qualifications	Area of Specialization
1.	I. T. Yusuf	Professor /HOD	B.Eng., M.Eng, Ph.D. (Ilorin), MNSE, R. Engr. (COREN)	Transportation & Geotechnics
2.	O. O. Adeleke	Professor	B.Sc., M. Sc. (Lagos), Ph.D. MBA (Ilorin) B.Eng. (KWASU), Reg Surveyor (SURCON)	Transportation & Geoinformatics
3.	A. A. Jimoh	Professor Adjunct	B. Eng., M. Eng., Ph.D. (Ilorin) 2006, MNSE; R. Engr. (COREN)	Structures & Materials
4.	Y. O. Babatunde	Lecturer I	B. Eng., M.Eng (Ilorin). Ph.D. (PAUSTI, Kenya); R.Eng. (Nigeria)	Structures and Construction Materials
5.	Funmilayo. R. Adeoti	Lecturer I	B. Eng., M.Eng.Ph.D. (Ilorin) ; R.Eng. (Nigeria)	Transportation & Geotechnics
6.	Christianah T. Folowosele	Lecturer I	B. Eng., M.Eng. (Ilorin)	Structures and Materials
7.	A. A. Adedeji	Professor Adjunct	B.Eng. M. Sc. (Prague), Ph.D. (Zaria), MNICE, R. Eng. (COREN)	Structures

S/N	Name	Rank	Qualifications	Area of Specialization
8	A.A. Amadi	Professor	B.Eng. (Enugu), M.Sc., Ph.D. (Zaria), MNSE; MNICE; R.Engr (Nigeria)	Environmental Geotechnics, Geoenvironmental Engineering
9	A.A. Bello	Professor	B.Tech. (LAUTECH), M.Sc.(UI), Ph.D. (Zaria), MNSE; MNICE; R.Engr (Nigeria)	Geotechnical and Geoenvironmental Engineering
10	S. O. Odeyemi	Professor	B.Eng., M.Eng., Ph.D. (Unilorin), MNSE; MNICE; R.Engr (Nigeria)	Structures & Materials
11	Y. A. Iorliam	Senior Lecturer	B.Eng. (Makurdi), M.Sc (UI)., Ph.D. (UK), MNSE; MNICE; R.Engr (Nigeria)	Geotechnical and Geoenvironmental Engineering
12	O. A. Toluhi	Adjunct Lecturer	B.Eng.; M.Eng., Ph.D., (Unilorin); MNSE, R.Engr. (Nigeria).	Transportation Planning
13	K. S Adejumo	Lecturer II	B.Tech, M.Tech (Ogbomosho), R.Engr.	Transportation and Highway
14	U. Muhammed	Lecturer II	B. Engr. (Ilorin) M.Sc (Ibadan) (COREN)	Structures & Materials
15	Rasheedat .A. Sayi	Lecturer II	HND Arch. Tech (Kwara.Poly), B. Eng (Ilorin), M.Eng. (KWASU), (ARCON, COREN)	Structures & Materials
16	A.O Amao	Lecturer II	B.Eng (Futminna) , M.Eng (Kwasu), MNSE; R.Engr (Nigeria)	Structures & Materials
17	A.O Okunlola	Assistant Lecturer	B.Eng (Unilorin), M.Sc (Unibadan)	Structures & Materials
18	M. O. Raji	Graduate Assistant	B. Engr. (Ilorin)	Structures & Materials

S/N	Name	Rank	Qualifications	Area of Specialization
19	Z.I. Adedo	Senior Lecturer	B.Arch.; M. Arch.	Building Architecture
20	O. G. Okeola	Associate Professor	B. Eng., M.Eng., Ph.D. (Ilorin); R.Eng. (Nigeria)	Water Resources
21	A. W. Salami	Professor	B. Eng., M. Eng., (Minna), Ph.D. (Ilorin) 2007, MNSE; PGD Computer Sci., AMICE, R. Engr. (COREN)	Water Resources
22	A. M. Ayanshola	Professor	N.D., (Bida), B. Eng., (Minna), M.Eng, Ph.D. (Ilorin), MNSE, R.Engr. (COREN)	Water Resources
23	O. O. Olofintoye	Reader	B.Eng., M.Eng. (Ilorin), Ph.D. (Durban) R.Engr. (COREN)	Water Resources
24	O. A. Mokuolu	Reader	B.Eng. M.Eng, (Ilorin). Ph.D. (Ibadan) R.Engr. (COREN)	Water Resources
25	Y. L. Shuaib Babata	Professor	BEng, MSc, (Ilorin); Ph.D. (MINNA); R.Eng. (Nigeria)	Casting technology, Corrosion, Materials Characterization, Manufacturing, Design and Fabrication
26	M. S. Sanusi	Senior Lecturer	BTech (Ogbomoso), MSc, Ph.D. (Ibadan)	Food Engineering and Product Development
27	K. O. Yusuf	Professor	BEng (Minna); MEng (Ilorin), Ph.D. (Ilorin); R.Eng. (Nigeria)	Soil and Water Engineering
28	T. A. Ishola	Reader	BEng, MEng, (Ilorin); Ph. D. (UPM); R.Eng. (Nigeria)	Food Machine Design and Automation

S/N	Name	Rank	Qualifications	Area of Specialization
29	E. O. Ajala	Reader	BTech, (Ogbomoso), MSc. (Ife), Ph.D. (Minna); R.Eng. (Nigeria)	Biochemical Engineering
30	J. A. Adeniran	Reader	BTech (Ogbomoso); MSc (Lagos); Ph.D. (Ogbomoso); R.Eng. (Nigeria)	Environmental Engineering, Climate Change
31	A. G. Adeniyi	Reader	BTech, MTech, Ph.D. (Ogbomoso); R.Eng. (Nigeria)	Process System Engineering, Process and Product Development
32	A. I. Abdullateef	Reader	BEng, (OSUA); MEng. (BENIN); Ph.D. (IIUM, Malaysia); R.Eng. (Nigeria)	Power Engineering
33	O. S. Zakariyya	Senior Lecturer	B.Eng (Zaira); MSc (EMU, Famagusta, Cyprus); PhD (Zaira); R.Eng. (Nigeria)	Digital Image Processing
34	H. U. Hambali	Senior Lecturer	BEng (Maiduguri); MSc (Zaria); Ph.D. (UTM, Johor Bahru); R.Eng. (Nigeria)	Catalysis of Petrochemicals production and Wastewater treatment
35	Mary A. Ajala	Senior Lecturer	BTech; MTech; (Ogbomoso); Ph.D. (Minna); R.Eng. (Nigeria)	Environmental Engineering
36	M. O. Iyanda	Senior Lecturer	BEng, MEng, Ph.D. (Ilorin); R.Eng. (Nigeria)	Farm Power
37	A. B. Rabiu	Senior Lecturer	B.Eng (Kano), MEng, Ph.D. (Ilorin); R.Eng. (Nigeria)	Thermo-fluids Engineering

S/N	Name	Rank	Qualifications	Area of Specialization
38	O. T. Popoola	Senior Lecturer	B.Eng (Kano), MEng, Ph.D. (Ilorin); R.Eng. (Nigeria)	Thermo-fluids Engineering and Computational Fluid Dynamics
39	Zainab T. Yaqub	Lecturer I	BSc, (Lagos); MTech, (Johannesburg); Ph.D. (Johannesburg); R.Eng. (Nigeria)	Biochemical Engineering
40	M.A. Amoloye	Lecturer I	BEng (Bauchi); MTech (Ogbomoso); Ph.D. (Ilorin); R.Eng. (Nigeria)	Process System Engineering, Process and Product Development
41	I. N. Aremu	Lecturer I	MSc, (Ukraine); R.Eng. (Nigeria)	Iron and Steel Making, Materials Characterization
Technical staff of the department				
1	M. O. Sayi	Principal Chief Technologist	ND, HND (Civil), PGD, R. Eng. COREN (Nigeria)	Structures and Structural materials
2	Mrs. S. I. Adio-Yusuf	Principal Chief Technologist	ND , HND (Civil); COREN Regd.(Nigeria)	Water Resource
3	K. A. Yusuf	Chief Technologist	ND, HND (Civil), PGD, R. Eng. COREN (Nigeria)	Structural materials
4	Mr. O. E. Eruotor	Chief Technologist	ND, HND, PGD, MSc.(Civil), COREN Regd.(Nigeria)	Water Resource
5	S. Alasinrin	Assistant Chief Technologist	ND, HND (Civil), PGD, R. Eng. COREN (Nigeria)	Surveying and Geoinformatics

S/N	Name	Rank	Qualifications	Area of Specialization
6	E. K. Badmus	Laboratory Superintendent	ND, HND (Civil)	Structural materials
7	O. O. Olawuyi	Laboratory Superintendent	NABTEB; GCE; Basic Tech Cert. (NIST); OND (NIST).	Geotechnics
8	S. N. Mohammed	Technologist II	ND, HND (Civil)	Structures
9	T. I. Hassan	Laboratory Assistant	NABTEB	Geotechnics
10	J. D. Suleiman	Senior Laboratory Assistant	NECO, Trade Test Certificate (One and Two)	Geotechnics
Administrative Staff				
1	Mary E. Obans	Chief Sec. Assistant	NECO, Diploma (Human Kinetics); Computer training Cert.;CSE Cert.50WPM;	Registry Staff
2	Mubaraq Mustapha Toyin	Higher Executive Officer	HND Public Administration	Registry Staff
3	Fatima Yusuf	Caretaker	SSCE	Registry Staff

Academic Staff for Non Departmental Courses

S/N	Name of Lecturer	Course and Course Code	Source Department
1	Prof H.A Ajimotokan	GET 208 - Strength of Materials	Mechanical Engineering
2	Dr. S. I. Mustapha Dr. Zainab T. Yaqub Engr. I. A. Tijani	GET 206 - Fundamentals of Engineering Thermodynamics	Chemical Engineering
3	Prof. E. O. Oke Dr. Mary A. Ajala Dr. I. E. Muhibuddin	GET 210 - Engineering Mathematics II	Chemical Engineering
4	Dr. A. O. Otuoze Dr. S. A. Olayanju Dr. S. O. Zakariya Engr. R. A. Alao	EEE 202 - Applied Electricity II	Electrical Engineering
5	Dr M.M Odewole	ABE 306 - Engineering Economics	Agric. and Biosystems Engineering
6	Dr. A. O. Otuoze	MEE 362 Engineering Mathematics 4	Mechanical Engineering
7	Dr Ismail Adua Mustapha	BUL506- Engineering Law	Faculty of Law

2.0 ACADEMIC CONTENT

2.1 Philosophy and Objectives of the Programme

Existing curriculum for the Civil Engineering programme:

(a) Programme Title:

B. Eng. Civil Engineering

(b) Philosophy

The centre-point philosophy of the Civil Engineering programme is 'engagement, relevance and enthusiasm'. These fosters skills, knowledge and experience to align with minimum academic standard set by NUC and COREN. That is, to produce graduates with high academic standard with adequate practical background; of immediate value to industry and the nation in general; and be self-employable. To this end, the programme has been designed not only to nourish students with theoretical knowledge, but to also enable them have relevant hands-on laboratory practical experience.

Furtherance to the above stated, students also undergo compulsory 'student industrial work experience scheme', to foster good interaction between the students and professionals in order for them to gain necessary field experience

(c) Objectives of Programme

(i) To produce graduates in Civil Engineering who will be well qualified to plan, design, develop, operate and maintain the infrastructures and utility services at local, national and global levels.

(ii) To train graduates who pursue research and development in the areas of CivilEngineering.

(iii) To train graduates who can teach and impart knowledge in the discipline.

(d) Admission Requirements:

Senior Secondary Certificate (SSC) or its equivalent such as West African Examinations Council (WAEC), National ExaminationsCouncil (NECO), National Board for Business and Technical Examinations Board (NABTEB), etc with credit passes in five subjects including English Language, Chemistry, Physics and Mathematics. Acceptable performance in Joint Admissions & Matriculations Board/Universal Tertiary Matriculation Examinations (JAMB/UTME) is required for admission into 100 Level. Candidates with GCE Advanced level or equivalent qualifications enter at 200-level and spend four academic years. Also, candidates with National Diploma or Higher National Diploma (at least Upper Credit) in Civil Engineering or equivalent qualification are admitted to 200-Level or 300-level to spend four or three academic years respectively.

(e) Programme structure to include period of formal studies in the Universities, Industrial training, planned visit and projects:

The programme is a five- year course, including an industrial experience of a minimum of three (3) months at the end of 300 Level and 6 months at the end of 400 Level. Submission of Final Year Project is a requirement for graduation.

2.2 The Curriculum

Course content specifications/syllabus of all courses for the B.Eng. Degree in Civil Engineering programme: Undergraduate Courses and Credits

100-LEVEL HARMATTAN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	MAT 111	Elementary Mathematics I	E	3
2	MAT 113	Elementary Mathematics II	E	3
3	PHY 115	Mechanics and Properties of	E	2
4	PHY 125	Heat, Sound and Optics	E	3
5	PHY 191	Practical Physics I	E	1
6	CHM 101	General Physical Chemistry	E	3
7	CHM 115	General Practical Chemistry I	E	2
8	STA 131	Introduction to Statistical	E	2
9	GNS 111	Reading and Study Skills	R	2
TOTAL				**21**

100-LEVEL RAIN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	MAT 112	Elementary Mathematics III	E	3
2	MAT 114	Elementary Mathematics IV	E	3
3	PHY 142	Atomic Physics	E	2
4	PHY 152	Electricity and Magnetism	E	3
5	PHY 192	Practical Physics II	E	1
6	CHM 112	General Organic Chemistry	E	2
7	CHM 116	General Practical Chemistry II	E	1
8	CHM 132	General Inorganic Chemistry	E	2
9	STA 124	Introduction to Probability	E	2
10	GNS 112	Use of English	R	2
11	GNS 114	Digital Skill Acquisition	R	1
TOTAL				**22**

200-LEVEL HARMATTAN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	ELE 201	Applied Electricity I	R	3
2	MEE 217	Engineering Graphics I	R	2
3	MEE 235	Engineering Technology	R	2
4	CHE 241	Fundamentals of Fluid Mechanics	R	3
5	CVE 253	Engineering Mechanics I	C	3
6	ABE 263	Engineering Mathematics I	R	3
7	ELE 275	Computer Application I	R	1
8	CVE 283	General Eng. Laboratory Course I	C	2
9	GNS 211	Introduction to Humanities	R	2
TOTAL				**21**

200-LEVEL RAIN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	ELE 202	Applied Electricity II	R	3
2	MEE 218	Engineering Graphics II	R	2
3	CHE 242	Fundamentals of Thermodynamics	R	3
4	CVE 254	Engineering Mechanics II	C	3
5	CHE 264	Engineering Mathematics II	R	3
6	ELE 276	Computer Application II	R	2
7	MEE 272	Engineering Materials	R	2
8	CVE 284	General Eng. Laboratory Course II	C	2
9	GNS 212	Introduction to Social Science &	R	2
10	ABE 206	Introduction to Engineering	R	2
11	GSE 202	Introduction to Entrepreneurship	R	2
12	CVE 222	Students' Work Experience Programme (SWEP) – [Long	C	6
TOTAL				**32**

300-LEVEL HARMATTAN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	CVE	Civil Engineering Materials	C	3
2	CVE	Engineering Survey I	C	3
3	CVE	Strength of Materials	C	2
4	CVE	Structural Analysis I	C	2
5	CVE	Civil Engineering Lab. Course I	C	1
6	MEE	Engineering Mathematics III	R	3
7	GEM	Principles of Stratigraphy	R	1
8	GEM	General Geology for Engineers	R	2
9	GNS	History and Philosophy of Science	R	2
10	GSE	Graduate Entrepreneurship Skill	R	2
11	CVE	Survey Camp	C	2
TOTAL				**23**

300-LEVEL RAIN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	CVE	Soil Mechanics	C	3
2	CVE	Engineering Surveying II	C	3
3	CVE	Structural Design I	C	3
4	CVE	Structural Analysis II	C	2
5	CVE	Civil Engineering Lab. Course II	C	1
6	CVE	Elements of Architecture	C	2
7	MEE	Engineering Mathematics IV	R	3
8	ABE	Engineering Economics	R	2
9	ABE	Engineering Communication	R	1
10	ELE	Measurement and Instrumentation	R	2
11	CVE	Industrial Training I (SIWES) – [Long	C	6
TOTAL				**28**

400-LEVEL HARMATTAN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	WEE 411	Environmental Engineering	R	3
2	CVE 421	Applied Soil Mechanics &	C	3
3	WEE 433	Engineering Hydrology	R	2
4	CVE 463	Structural Analysis III	C	2
5	CVE 465	Structural Design II	C	2
6	CVE 473	Transportation Engineering I	C	3
7	CVE 481	Civil Engineering Laboratory	C	2
8	CVE 485	Civil Engineering Practice	C	2
9	ABE 463	Engineering Statistics	R	2
10	WEE 431	Hydraulics	R	3
				24

400-LEVEL RAIN SEMESTER

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	CVE 492	Industrial Training II	C	12
				12

500-LEVEL HARMATTAN SEMESTER (COMMON COURSES)

S/N	CODE	COURSE TITLE	STATUS	CREDITS
1	WEE 511	Hydraulic Engineering	R	2
2	CVE 565	Structural Analysis IV	C	2
3	CVE 575	Transportation Engineering II	C	3
4	CVE 581	Construction Engineering	C	2
5	CVE 593	Civil Engineering Project I	C	4
6	ABE 501	Engineering Management	R	3
7	ABE 573	Engineer in Society	R	1
				17

500-LEVEL HARMATTAN SEMESTER (OPTIONAL COURSES)

A student is expected to take an option from the following:

CODE	COURSE TITLE	STATU	CREDI
1. Water and Environmental Engineering option			
WEE 515	Water & Wastewater Engineering	R	3
2. Structural Engineering Option			
CVE 567	Advanced Structural Analysis & Design I	C	3
3. Transportation Engineering Option			
CVE 577	Transportation Systems Analysis &	C	3
4. Geotechnical Engineering Option			
CVE 585	Advanced Geotechnical Engineering I	C	3

500-LEVEL RAIN SEMESTER (COMMON COURSES)

S/N	CODE	COURSE TITLE	STATU	CREDIT
1	CVE 524	Geotechnical Engineering	C	2
2	CVE 562	Design of Structures	C	3
3	CVE 582	Civil Engineering Services	C	2
4	CVE 584	Computer Application in Engineering	C	2
5	CVE 594	Civil Engineering Project II	C	4
6	BUL 506	Engineering Law	R	3
TOTAL				**16**

500-LEVEL RAIN SEMESTER (OPTIONAL COURSES)

A student is expected to take an option from the following:

CODE	COURSE TITLE	STATU	CREDITS
1. Water & Environmental Engineering Option			
WEE 516	Water Resources Engineering	R	3
2. Structural Engineering Option			
CVE 568	Advanced Structural Analysis & Design II	C	3
3. Transportation Engineering Option			
CVE 578	Transportation System Analysis & Design II	C	3
4. Geotechnical Engineering Option			
CVE 586	Advanced Geotechnical Engineering II	C	3

2.3 Description of Courses

CVE 222 Students Work Experience Programme (SWEP) 6 Credits
Introduction to practices and skills in general engineering through instruction in operation of hand and powered tools for wood and metal cutting and fabrication; Supervised hands – on experience in safe usage of tools and machines for selected tasks; General practices on automobile repairs, survey, civil and electrical engineering works; Micro-structural examination of materials.
270h (P); C.

CVE 253 Engineering Mechanics I 3 Credits
Forces, moments, couples; Equilibrium of simple structures and machines parts; Friction; First and second moments of area, centroids; Kinematics of particles and rigid bodies in plane motion; Newton's kinetic energy and momentum analyses.
45h (T); C

CVE 254 Engineering Mechanics II 3 Credits
Hooke's law; stresses and strains due to loading and temperature changes; Torsion; The stress circle; deflection of beams with symmetrical and combined loadings; Elastic buckling of columns; shear forces and bending moments; analytical and graphical methods for structures.
45h (T); C

CVE 322 Soil Mechanics 3 Credits
Physical and mechanical properties; structure and classification of soils; formation of soils; soil mineralogy; phase relationships; shear strength, consolidation, stress distribution, settlement compaction and permeability.
30h (T); 45h (P); PR: GEM 319; C

CVE 341 Civil Engineering Materials 3 Credits
Production, structure and physical properties of major civil engineering

materials: cement, concrete, bitumen, metals, timber, masonry, ferrocement. Applications for construction purposes.
45h (T); PR: MEE 272; C

CVE 351 Engineering Surveying I **3 Credits**

Basic principles of surveying, instruments, methods and computations of distance, angles and elevations, stadia measurements; Theodolite traversing computation of areas by analytical and planometer methods. Fieldwork, pacing, basic line measurement, levelling and compass traversing. Introduction to theodolite traversing.
30h (T); 45h (P); C.

CVE 352 Engineering Surveying II **3 Credits**

Theodolite traversing, tacheometry, analysis, design and methods of setting horizontal and vertical curves on transportation routes, longitudinal mass-Haul diagram. Introduction to photogrammetry field work; curve-setting and earthwork computation.
45 (T); C, PR: CVE 351

CVE 353 Survey Camp **2 Credits**

Use of knowledge of levelling and theodolite/compass traverse for detailed topographical mapping of areas
(2-week duration in Harmattan Semester break).
90h (P); C, PR: CVE 351

CVE 362 Structural Design I **3 Credits**

Structural design concepts, basic design of structural elements in concrete. Limit state design for strength, serviceability and economy, design of rectangular beams. T-beams, slabs, columns. Reinforcement details. Bond, anchorage and crack control.
45h (T); C, PR: CVE 365

CVE 363 Strength of Materials **2 Credits**

Generalized stress-strain relationship, Biaxial and triaxial state of stress. Stress transformation. Mohr's circle, failure theories. Theories of bending of beams. Unsymmetrical bending and shear centre. Strain energy application. Torsion of non-circular and thin-walled hollow members.

30h (T); C, PR: CVE 254

CVE 365 Structural Analysis I **2 Credits**
Theory and problems in determinate structures. General structural analysis as applied to beams, trusses and frames. Deflection analysis. Influence lines and applications.
30h (T); C, PR: CVE 254

CVE 366 Structural Analysis II **2 Credits**
Theory and problems in determinate structure. Static and kinematics indeterminacy. Classical methods of analysis. Virtual work and energy methods, slope deflection method and moment distribution method. Influence line for statically indeterminate structures.
30h (T); C, PR: CVE 365

CVE 378 Elements of Architecture **2 Credits**
Introduction – Dimensional awareness; graphical communication; relation to environments; freehand drawing – form in terms of shades, light shadow; Common curves; Orthographics, dimetrics, perspective projections; Applications, Elementary designs.
15h (T), 30h (P); C, PR: MEE 218

CVE 383 Civil Engineering Laboratory Course **1 Credit** Laboratory investigations and report submission for selected experiments in Civil Engineering Materials and Hydraulics.
90h (P); C

CVE 384 Civil Engineering Laboratory Course II **1 Credit** Laboratory investigations and report submission for selected experiments in surveying II and soil mechanics.
90h (P); C

CVE 392 SIWES I **6 Credit**
On the job experience in industry for its relevant Student's major. (10 weeks during the long vacation following 300 level).
270h (P); C

CVE 421 Applied Soil Mechanics and Foundation 3 Credits
Stress in soils, consolidation, compaction, CBR and soil improvement. Stability of slopes. Earth pressure analysis, bearing capacity and settlement analysis of shallow and deep foundations. Design of footings, foundations, retaining walls. Analysis and control of groundwater.
45h(T); C, PR: CVE 322, CVE 362

CVE 463 Structural Analysis III 2 Credits
Matrix methods of structural analysis, flexibility and stiffness methods. Elastic instability. Introduction to plastic theory of bending. Collapse loads.
30h (T); C, CVE 366.

CVE 465 Structural Design II 2 Credits
Design philosophies for steel and wood structures. Design of members subjected to tension, compression, flexure, shear, torsion, combined flexure/torsion/axial load. Design of connections. Introduction to prestressed concrete design.
30h (T); C, PR: CVE 362, CVE 366.

CVE 473 Transportation Engineering I 3 Credits
Definition and components of transportation engineering. Type and components of fixed transportation facilities. Ride function of facilities. Effects of vehicle loads and water on performance of ride function of railways, runways and roads. Characteristics of highways materials and their improvement methods. Traffic characteristics and application in geometric design. Laboratory experiments on soil stabilization and testing of bituminous materials.
45h (T); C; PR: CVE 341; CVE 351.

CVE 481 Civil Engineering Laboratory Course III 2 Credits
Laboratory investigations and report submission for selected experiments in Environment demonstrations drawn from topics in prescribed areas.
90h (P); C.

CVE 485 Civil Engineering Practice 2 Credits
Legal, professional and ethnical aspects of engineering contracts and contract document including specifications and competitive bidding. Negotiated contracts. Civil Engineering Quantities – standard method of measurements, applications of the classification of coding and numbering of items. Bill of quantities.
30h (T); C.

CVE 492 SIWES II 6 Credits
On the job experience in industry at a higher level of responsibility than CVE 392. (During the rain semester of 400 Level and long vacation).
270h (P); C

CVE 524 Geotechnical Engineering 2 Credits
Techniques of site investigation for geotechnical engineering, in-situ testing, sub-surface stratigraphy and its interpretation for foundation of structures. Analysis and design of foundations. Design of dewatering system.
30h (T); C. PR; CVE 422

CVE 562 Design of structures 3 Credits
Analysis and design of multi-storey buildings, prestressed concrete, hydraulic structures: culverts, water and earth-retaining structures; Composite construction; Design considerations for bridges. Standards and codes of practice; Methods of construction.
45 (T); C; PR: CVE 362; CVE 465.

CVE 565 Structural Analysis IV 2 Credits
Approximate method of analysis for frame structures, yield line analysis of slabs, structural forms, plastic analysis of multi-bay, multi-storey frame buildings.
30h (T); C; PR: CVE 463.

CVE 567 Advanced Structural Analysis & Design I 3Credits
Advanced topic of matrix methods of structural analysis. Finite difference and finite element methods. Structural vibrations, model analysis. Introduction to the theory of plated and sheets.
30h (T), 45h (P); C, PR: CVE 463, CVE 465.

CVE 568 Advanced Structural Analysis & Design II 3 Credits Planning and design of structures, analysis and design of prestressed concrete, composite steel- concrete structures. Modern structural forms and methods of construction. Design projects for complete structure will be assigned in group or individually.
30h (T), 45h (P); C, PR: CVE 463, CVE 465.

CVE 575 Transportation Engineering II 3 Credits
Road pavement characteristics. Simple design method. Construction and maintenance of roads including labour-based methods. Study of Nigerian highways design policies, standards and specifications. Comparisons with international standards.
30h (T), 45h (P); C; PR: CVE 473

CVE 577 Transportation Systems Analysis and Design I 3 Credits
Roads and Railways traffic analysis and design, including definition and determination of level of service and capacity for different types of roads and railways. Design of traffic control schemes.
30h (T); 45h (P); C, PR: CVE 473

CVE 578 Transportation System Analysis & Design II 3 Credits
Planning and management methods for roadways, waterways, runways and railways. Pavement analysis and design methods.
30h (T); 45h (P); C, PR: CVE 473

CVE 581 Construction Engineering 2 Credits
Introduction to estimating cost, time and materials; planning and scheduling; Critical path methods; PERT; Construction methods;

Equipment selection; Quality control; Economic, financial problems in construction and in executing public works.
30h (T); C.

CVE 582 Civil Engineering Services 2 Credits
Water supply and installation; Hot water systems; sanitary appliances; methods of refuse disposal; equipment for air conditioning and ventilation; Installations for industrial buildings: gases, liquids, refrigeration, vacuum cleaning, firefighting systems, electrical and high circuits, standby power sources.
30h (T); C.

CVE 584 Computer Application in Civil Engineering 2 Credits
Review of computer programming and programming languages (FORTRAN, BASIC, etc). Computer applications in structural engineering, highway engineering, individual or group projects on computer solutions of specific problems.
15h (T); 45h (P); C.

CVE 585 Advanced Geotechnical Engineering I 3Credits
Review of structural foundations: types, choice and design; Slope stability analysis: total stress, parallel slope, tension crack, Swedish circle, Taylor's technique, bishop conventional and resource methods, factor of safety; Bearing capacity: ultimate, safe and allowable; Lower and upper bound theorems and applications.
45h (T); C, PR: CVE 421.

CVE 586 Advanced Geotechnical Engineering II 3Credits
Earth pressure design: types of walls, limiting equilibrium equations, earth pressure at rest candling active and passive pressure equations and applications to gravity and Counterforts walls; Coulomb methods and applications; Sheet pile walls: cantilever and propped/anchored, revised safety factor, examples of design. Reinforced earth theory and application to walls. Pile foundations: types, design approaches, empirical and analytical design, skin frictions, piles in clay and granular soils; Buried structures and tunnels; Ground improvement techniques.

45h (T); C, PR: CVE 421.

CVE 593 Civil Engineering Project I **4 Credits**

Original individual student project related to a prescribed Civil Engineering problem, involving literature review, identification, definition and formulation of the problem, theoretical and/or experimental investigations, modelling, simulation analysis and design. 15h (T), 135h (P); C.

CVE 594 Civil Engineering Project II **4 Credits**

Second phase of project work involving the fabrication of the designed mode, debugging, calibration, testing, data collection and analysis, and presentation of a comprehensive written report of the investigation. 15h (T), 135h (P); C.

2.4 Summary of Requirements for Bachelor of Engineering Degree in Civil Engineering

2.4.1 Special departmental requirements for B.Eng. (Civil Engineering)

100 LEVEL

COMPULSORY COURSES: Nil
REQUIRED COURSES: [5]
ELECTIVE COURSES: [4]

STA 131(2), STA 124(2)

ELECTIVE AND REQUIRED:

- At least 9 credits must be passed out of the Mathematics Courses listed for registration:
- At least 9 credits must be passed out of the Physics Courses listed for registration:
- At least 6 credits must be passed out of the Chemistry Courses listed for registration:

LEVEL 200

COMPULSORY COURSES:	[16]
REQUIRED COURSES:	[41]
ELECTIVE COURSES:	Nil

NOTE: *Direct entry (DE) students at 200 level have additional* ***required*** *courses and these are GNS 111(2), GNS 112(2), and GNS 114(1), GSE 202(2) [7]*

300 LEVEL

COMPULSORY COURSES:	[33]
REQUIRED COURSES:	[18]
ELECTIVE COURSES:	Nil

NOTE: *Direct Entry (DE) students at 300 level have additional* ***required*** *courses and these are GNS 111(2), GNS 112(2), GNS 114(1), GNS 211(2), GNS 212(2), and GSE 202(2) [11]*

400 LEVEL

COMPULSORY:	[26]
REQUIRED:	[10]
ELECTIVE COURSES:	Nil

500 LEVEL

Common Courses

COMPULSORY:	[24]
REQUIRED:	[9]
ELECTIVE COURSES:	[6]

2.4.2 Departmental options

A student must take an option from the following and must pass its two corresponding 3-credit courses.

1. Water & Environmental Engineering option
2. Structural Engineering Option

3. Transportation Engineering Option
4. Geotechnical Engineering Option

2.4.3 Graduation requirements

(1) Major Engineering Courses (ABE, CHE, CVE, ELE, MEE, WEE) =133Credits
(2) Courses from Other Departments outside the Faculty(GEM and BUL courses)= 6 Credits
(3) General Studies Courses (GNS courses) = 11Credits
(4) Students Industrial Work Experience Scheme = 18 Credits
(5) Students Work Experience Programme = 6 Credits
Managements, Economics and Entrepreneurship (ABE and GSE courses) =10Credits
Total Credits Required = 184Credits

UTME:	184 Credits
DE (200):	184 Credits
DE (300):	138 Credits

2.4.4 Computation of Grade Points (GP) for graduation

1. 100 Level courses are not used for computation of CGPA except GNS 111, GNS 112, and GNS 114;
2. The 6 Credits of SWEP must be passed and used for computation;
3. The 2 Credits of Survey camp must be passed but are not used for computation of the CGPA;
4. The 18 Credits of SIWES must be passed but they are not used for computation of the CGPA;
5. The minimum Credits that will be used to compute the CGPA for all options are as follows:

Level	UTME	DE (200L)	DE (300L)
100 Level	5	5	5
200 Level	53	53	6
300 Level	43	43	43
400 Level	24	24	24
500 Level	39	39	39
Total	**164**	**164**	**117**

2.5 Academic Regulations

This exists in circulation students' handbook/prospectus by the University administration for all the programmes. The handbook contains entry requirements, rules and regulations governing the conduct of examinations, grading system, penalties for examination malpractice, requirement for withdrawal, probation, graduation, etc.

2.5.1 Standard of test and examination

(i) Lecturers set examination questions to cover the syllabus for each course at the end of each semester

(ii) Moderation:

- Internal moderation is done by the Head of the Department
- External moderation is done by external examiners for final year question papers

(iii) Conduct - At the Faculty level, examination venues are assigned to contain students in several departments and at various levels. Invigilators are assigned to venues to ensure orderliness and strict compliance with examination rules and regulations.

(iv) Evaluation scheme – Final grades in each course are based on both continuous assessment and final semester examination scores. The proportion for continuous assessment is usually 30 to 40 percent, while final examination carries 60-70 percent of the final grade.

(v) Moderation Schemes –Final year projects are evaluated by respective supervisors as well as constituted Departmental panels for oral presentation and defence by students. Examination

questions papers, model answers, marking schemes, marked answer scripts, and randomly selected final year projects are generally moderated by external examiners.

(vi) Issuance of Results – Results are first considered at departmental level, then considered by Faculty Board of Examiners and then approved by the University senate before being officially released to students. However, after the approval by the Chief Internal Examiner (the HOD), each lecturer is permitted to upload the results on the University website.

2.5.2 Examination Malpractices

Students are strongly advised to desist from any form of misconduct during examinations as this attracts, in most cases, expulsion as a sanction. Students should ensure that they do not take to the examination halls any materials aside those documents expected to be presented. They must also ensure that they arrive examination venue 30 minutes to the commencement of the examinations. Also, all rules and regulations guiding the conduct of the examinations must be religiously adhered to.

2.5.3 Practical/project works

The following laboratories are in the Department of Civil Engineering for the conduct of practical:

1. Structures
2. Concrete/Materials
3. Hydraulics
4. Soil Mechanics
5. Hydrology
6. Sanitary Engineering
7. Surveying
8. Transportation

2.5.4 Grading system

The following is the University Grading System:

Percentage Score	Letter Grade	Grade Point (GP)
70 & Above	A	5.00
60 – 69	B	4.00
50 – 59	C	3.00
45 – 49	D	2.00
40 – 44	E	1.00
Below 40	F	0.00

Students are obliged to seat for examination which constitute 70% and have Continuous Assessment (CA) of 30% in all registered courses. Any student who fails to seat for a course examination without satisfactory reason earns the grade of "F" while a student who does not have a component of either CA or Examination score would be deemed to have failed technically.

2.5.5 Good standing and withdrawal

The essential points of the subject matter are as highlighted below:

Good Standing:

A student whose CGPA at the end of every academic year is above 2.0 is considered to be in good standing.

Probation:

A student whose CGPA at the end of their 200 Level is below 1.5 is considered to be not in good standing and shall be placed on probation.

Withdrawal on academic basis:

(a) **100 level:** Any student whose CGPA is below 2.0 and failed to satisfy the following pass levels
   (i) 75% credits of courses registered in physics.
   (ii) 75% credits of courses registered in Mathematics.
   (iii) 60% credits of courses registered in Chemistry.

at the end of the academic year shall be required to withdraw from the program.

(b) Other Levels: Any student with a CGPA of less than 1.5 at the end of the academic year, after a year of probation shall be required to withdraw from the program.

2.5.6 Classification of degree

The degree shall be awarded with 1st,2nd Upper, 2nd Lower, or 3rd Class Honours or as a Pass degree. The Cumulative Grade Point Average (CGPA) for these classes shall be:

Class of Degree	Cumulative Grade Point Average (CGPA)
1st Class	4.50 – 5.00
2nd Class Upper	3.50 – 4.49
2nd Class Lower	2.40 – 3.49
3rd Class	1.50 – 2.39
Pass	1.00 – 1.49

3.0 GUIDEL INES ON ACCESSING THE E-LIBRARY

3.1 Accessing the University Library Database

Students can assess the University of Ilorin Library Database online at Online Public Access Catalogue (OPAC) with web address, opac.unilorin.edu.ng for the list of books, journals and other materials that are available in the library.

To access University of Ilorin Online Public Access Catalogue (OPAC) as a user, simply log in with your matriculation number XX/XXXXXX as assigned to you by the university as your username and your surname as the password.

The students may change the log in details assigned to them on this platform if they wish.

4.0 COLLABORATION WITH NATIONAL WATER RESOURCES INSTITUTE (NWRI), KADUNA

4.1 Background

The National Water Resources Institute (NWRI) Kaduna sent a set of questionnaires to the Department of Civil Engineering in October 2009 requesting for expertise in the area of Water Resources and Environmental Engineering. The questionnaire was completed and sent back to Kaduna. As a follow up, two Directors from NWRI, Kaduna visited the department in 2010 for an assessment of the facilities and human resources. The visitors were also taken to other water- related departments such as Geography, Chemistry, Micro-Biology, Geology, Economics, Law, and the University Central Laboratory. After the inspection, the two Directors were convinced that the University of Ilorin has the facilities and manpower for effective collaboration in the watersector.

The memorandum of understanding (MOU) to establish the National Water Resources Capacity Building Network for North Central (NWRCBNet-NC) was signed on 31st August, 2010 between the National Water Resources Institute, Kaduna and the University of Ilorin, Ilorin. Today, there are six kinds of this centre, each established in the six geo-political zones of Nigeria. The centres are: (i) North Central – University of Ilorin; (ii) North East – University of Maiduguri; (iii) North West – ABU Zaria; (iv) South West – UNAB Abeokuta; (v) South East – Nnamdi Azikiwe University; (vi) South South – University of Calabar.

The Senate of the University at the 226th senate meeting in May 2012 approved the office space for the centre at the Unilorin Sugar Research Complex and release of the take-off counterpart funding for the centre.

4.2 Mandate of the Centre

The mandate of the Centre is to coordinate capacity development in the water sector through education, training, research and information dissemination along with the National Water Resources Institute (NWRI), Kaduna in six (6) states of the North Central Geo-Political Zone, and FCT, Abuja, Nigeria. The states are Benue, Kogi, Kwara, Nasarawa, Niger, and Plateau.

4.3 Network Activities

(i) To carry out institutional assessment for capacity development of Water agencies and departments in the sector.

(ii) To carry out training needs assessment exercises in order to determine immediate, short- term and long-term training required in the water sector e.g. Masters in IWRM

(iii) To carry out joint research and project proposals to solve identified problems in the water sector.

4.4 Membership of the Network

Membership of the Network is drawn from Universities, Polytechnics, Water Board and River Basins domiciled in north central Nigeria.

4.5 Masters in Integrated Water Resources Management (M.Sc. IWRM)

This program is the long-term training, which is in line with the MOU signed with NWRI, Kaduna.

The curriculum for the M.Sc. IWRM was considered and approved by the University senate at its 233rd meeting held on 30th of July, 2013. The duration of the M.Sc. IWRM programme is two years on a modular structure of four semesters.

The M.Sc. IWRM was approved to commence during the 2014/2015 academic session and has been domiciled in the Department of Civil Engineering as approved.