

**DEPARTMENT OF CURRICULUM AND INSTRUCTION  
FACULTY OF EDUCATION  
AMBROSE ALLI UNIVERSITY  
EKPOMA**

**HANDBOOK**

**FOR**

**UNDERGRADUATE STUDENTS**

**2019 – 2023**

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### ACADEMIC PROGRAMMES ACROSS DEPARTMENT

#### A. REGULAR PROGRAMMES

#### **Department of Curriculum and Instruction**

##### (1.) B.Sc (Ed) Degree Options

- (i) Biology
- (ii) Chemistry
- (iii) Mathematics
- (iv) Physics
- (v) Social Studies
- (vi) Computer Science

##### (2.) B.A (Ed) Degree Options

- i) English
- ii) French
- iii) Early Childhood

**DEPARTMENT OF CURRICULUM AND INSTRUCTION  
FACULTY OF EDUCATION  
AMBROSE ALLI UNIVERSITY, EKPOMA**

**A BRIEF HISTORY OF FACULTY OF EDUCATION**

Ambrose Alli University, Ekpoma was established by the First Executive Governor of the defunct Bendel State, Professor Ambrose Folorunsho Alli, in 1982. The University was opened for full academic operations on January 15, 1982. Under a Collegiate structure, the College of Education was one of the eight Colleges which started in the University.

The College of Education started with 13 lecturers and Professor J.U. Aisiku was the first Rector of the College. The College of Education started with 44 students who matriculated along with other students on February 8, 1982.

In 1983, the then Executive Governor of Bendel State, Dr. S.O. Ogbemudia instituted a visitation panel on the University. The outcome of the report led to the rationalization of three Colleges, namely, the College of Education, College of Agriculture and College of Medical Sciences by Gen. Jeremiah T. Useni, Military Administrator of the State.

During the 1985/86 academic session, the Faculty of Education was reopened in the University and was housed in the then College of Education, Abraka. That led to the transformation of the College of Education, Abraka (an N.C.E awarding institution) to become a campus of Bendel State University. Following the creation of additional States in the Federation of Nigeria; the then Faculty of Education of the University which was situated at Abraka was acquired by the Delta State Government and upgraded to a full University.

Following the acquisition of the Abraka Campus of the then Bendel State University by the Delta State Government, it became obvious that the Ekpoma main campus of the University which was re-named Edo State University, Ekpoma was without a Faculty of Education. Thus, during the 1992/93 academic session, Senate of the University recommended the establishment of the Faculty of Education for the University, which was established and had Professor J.U. Aisiku as the Dean.

The Faculty operated then under three departments – Department of Educational Foundations, Department of Curriculum and Instruction and the Department of Vocational and Technical Education. In 1996, a fourth Department named Physical and Health Education Department was added to the existing three Departments of the Faculty. Therefore, today the Faculty has four departments. The Faculty of Education runs degree programmes in specialties; namely, Guidance and Counseling, Educational Management, History Education, Political Science Education, Economics, Education Management, Religious Studies Education, Health Education, Physical Education, Biology Education, Chemistry Education, Mathematics Education, Physics Education, Technical, Home Economics Education, Agriculture Education, Secretarial Education, and Accounting Education.

The Departments of the Faculty today are: Department of Curriculum and Instruction, Department of Educational Foundations and Management, Department of Physical and Health Education and Department of Vocational and Technical Education. In the history of the Faculty, the following persons have emerged as Deans: Professor J.U. Aisiku, Prof. D.O. Aigbomian, Prof. Aminu Momodu, Prof. Olaitan Obanewa, Prof. M.O. Omo-Ojugo and currently, Prof. R.O.A. Aluede.

The Faculty of Education also runs Higher Degree Programmes (M.Ed and PhD) in the following areas: Physical Education, Health Education, Population Education and Gender Studies, Guidance and Counseling, Educational Planning and Administration, Educational Psychology, Language Education, Science Education, Social Studies Education and Curriculum Studies. Efforts are on top gear to run higher degree programmes in Educational Foundations. Apart from the regular programmes, the Faculty also runs Sandwich Programmes.

### OBJECTIVES OF THE FACULTY EDUCATION

The Faculty of Education was established with the primary objectives to train graduate-teachers for post primary institutions in Edo State in particular and Nigeria in general.

Below are objectives of the Faculty of Education:

- a) To train well-rounded professional graduate teachers for secondary schools and Teacher Colleges and specialist graduate-teachers in the various subject in both secondary and primary schools.
- b) To develop and improve all categories of teachers through seminars, workshops and other in-service training programmes.
- c) To produce high-level manpower for tertiary institutions through graduate degree education.
- d) It is the vision of the Faculty of Education to provide the teaching manpower needs of Edo State and Nigeria in general in collaboration with other agencies of education across the globe.

### LIST OF ACADEMIC STAFF IN THE DEPARTMENT

| S/N | Name of Staff             | Qualifications                   | Rank/Designation | Specialization        |
|-----|---------------------------|----------------------------------|------------------|-----------------------|
| 1   | Dr. P.J. Solomon-Alufohai | B.Ed, M.Ed, Ph.D                 | S/Lecturer       | Language Education    |
| 2   | Prof. L.I Aguele          | B.Ed, M.Ed, PGD (Comp. Sci) Ph.D | Professor/ Dean  | Mathematics Education |
| 3   | Prof. E. O. Imhanlahimi   | B.Sc, PGDE, M.Ed, Ph.D           | Professor        | Science Education     |
| 4   | Prof. (Mrs.) O.C. Otote   | BA (Ed), M.Ed, Ph.D              | Professor        | Social Studies        |
| 5   | Prof. P. O. Uhumuavbi     | B.Ed, M.Ed, Ph.D                 | Professor        | Science Education     |
| 6   | Dr. H. E. Ibhafidon       | B.Sc(Ed), M.Ed, Ph.D             | S/Lecturer       | Social Studies        |
| 7   | Dr. P. A. Ebhomien        | B.Sc, PGDE, M.Ed, Ph.D           | Lecturer II      | Mathematics Education |
| 8   | Dr. (Mrs.) M. Asika       | B.Ed, M.Ed, Ph.D                 | Lecturer II      | Mathematics Education |
| 9   | Mr. Anolu, E              | B.Sc (Ed), M.Ed                  | Asst. Lecturer   | Mathematics Education |
| 10  | Mrs. J.O. Aigboje         | NCE, B.Sc (Ed) M.Ed              | Asst. Lecturer   | Science Education     |

**ACADEMIC STAFF A: GENERAL EDUCATION**

| S/N | Names of staff                   | Qualifications   | Status             |
|-----|----------------------------------|--|--------------------|
| 1   | Dr. (Mrs.) P.J. Solomon-Alufohai | B.A(Ed) (Portharcourt), M.Ed (Benin) Ph.D (Ekpoma)       | Snr. Lecturer/HOD  |
| 2   | Prof. E. O. Imhanlahimi          | B.Sc (Ibadan), PGDE(Benin), M.Sc (Ekpoma), Ph.D (Ekpoma) | Professor          |
| 3   | Prof. L.I Aguele                 | B.Ed, M.Ed, PGD (Comp. Sci) Ph.D                         | Professor          |
| 4   | Prof. (Mrs.) O.C. Otote          | BA (Ed), M.Ed, Ph.D                                      | Professor          |
| 5   | Prof. P. O. Uhumuavbi            | B.Ed, M.Ed, Ph.D   | Professor          |
| 6   | Prof. R.O.A. Aluede              | B.Ed, M.Ed, Ph.D   | Professor          |
| 7   | Prof. Oyaziwo Aluede             | B.Ed, M.Ed, Ph.D   | Professor          |
| 8   | Prof. (Mrs.) E.O. Omoregie       | B.Ed, M.Ed, Ph.D   | Professor          |
| 9   | Prof. D.O. Omoike                | B. A (Ed), M.Ed, Ph.D                                    | Professor          |
| 10  | Emeritus Prof. J.U. Aisiku       | B.Ed, M.Ed, Ph.D   | Adjunct Professor  |
| 11  | Prof. M.O.Omo-Ojugo              | B.A Ed, M.Ed, Ph.D                                       | Adjunct Professor  |
| 12  | Dr. (Mrs.) J.E. Afem-Akpiada     | B.Ed, M.Ed, Ph.D   | Reader             |
| 13  | Dr. H. E. Ibhafidon              | B.Sc (Ed), M.Ed, Ph.D                                    | Snr. Lecturer      |
| 14  | Dr. (Mrs.) J.O. Eimuhi           | B.Sc, P.G.D.E, M.Ed, Ph.D                                | Snr. Lecturer      |
| 15  | Dr. (Mrs.) B.O. Ehigbor          | B.Ed, M.Ed, Ph.D   | Snr. Lecturer      |
| 16  | Dr. P.A. Arhedo                  | B.Ed, M.Ed, Ph.D   | Snr. Lecturer      |
| 17  | Mr. E.A. Onoguere                | B.Ed, M.Ed.  | Lecturer I         |
| 18  | Dr. (Mrs.) E.A. Ehikhamenor      | B.Ed, M.Ed, Ph.D   | Adjunct Lecturer I |
| 19  | Dr. (Mrs.) M. Asika              | B.Ed, M.Ed, Ph.D   | Lecturer II        |
| 20  | Dr. P. A. Ebhomien               | B.Sc, PGDE, M.Ed, Ph.D                                   | Lecturer II        |
| 21  | Dr. S.O. Ehiaguina               | NCE, B.Sc (Ed), M.Ed, Ph.D                               | Lecturer II        |
| 22  | Dr. Obaze Osumah                 | B.Ed, M.Ed, Ph.D   | Lecturer II        |
| 23  | Rev Fr Dr. O.S. Imhangbe         | B.A, M.Ed, Ph.D  | Lecturer II        |
| 24  | Dr. Josiah Ofeimu                | B.Sc. (Ed), M.Ed, Ph.D                                   | Lecturer II        |
| 25  | Mr. Anolu, E                     | B.Sc (Ed), M.Ed  | Asst. Lecturer     |
| 26  | Mrs. J.O. Aigboje                | NCE, B.Sc (Ed) M.Ed                                      | Asst. Lecturer     |

**SERVICE STAFF B: BIOLOGY EDUCATION**

| S/N | Names of staff       | Qualifications   | Status    |
|-----|----------------------|--|-----------|
| 1   | Prof. A.O. Onigbinde | B.Sc (Ife), M.Sc.; Ph.D. (Ibadan)                        | Professor |
| 2   | Prof. M.A. Azeke     | B.Sc; M.Ed. (Ekpoma), Ph.D. (Bonn)                       | Professor |
| 3   | Prof. H.O.T. Iyawe   | B.Sc (Ekpoma), M.Sc (Benin), Ph.D. (Ekpoma)              | Professor |
| 4   | Prof. E.E. Okoeguale | B.Sc (Calabar), M.Sc (Ibadan) Ph.D. (Benin)              | Professor |
| 5   | Prof. J.K. Mensah    | B.Sc (Ed), B.Sc (Hons), M.Sc (Cape Coast) Ph.D. (Ekpoma) | Professor |
| 6   | Prof. P.A. Umoru     | B.Sc (Ibadan), M.Sc (Ife), Ph.D. (Leeds)                 | Professor |

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|----|--------------------------|--|----------------|
| 7  | Dr. I.G. Ihimire         | NCE (Ilorin), HND (Yaba), M.Sc (Ekpoma) Ph.D. (Benin), FIPAN | Reader         |
| 8  | Dr. O.M. Iniahge         | B.Sc; M.Sc; Ph.D. (Ilorin)                                   | Snr. Lecturer  |
| 9  | Dr. A. Esekhaigbe        | B.Sc; M.Sc (Benin), Ph.D. (Ekpoma)                           | Snr. Lecturer  |
| 10 | Dr. O. Ekhatior          | B.Sc (Ekpoma), M.Sc., PGDE, Ph.D. (Benin)                    | Snr. Lecturer  |
| 11 | Dr. G.I. Okwu            | B.Sc (Loughboroughs), M.Sc; Ph.D. (Benin)                    | Snr. Lecturer  |
| 12 | Dr. H.A. Obiazi          | B.Sc; M.Sc; Ph.D. (Benin)                                    | Snr. Lecturer  |
| 13 | Dr. D.U. Ehichioya       | B.Sc (Ekpoma), M.Sc (Lagos) Ph.D. (Lagos)                    | Snr. Lecturer  |
| 14 | Dr. E.C. Osimen          | B.Sc; M.Sc; Ph.D. (Ekpoma)                                   | Snr. Lecturer  |
| 15 | Dr. C. Isaac             | B.Sc (Ekpoma), M.Phil (Ghana), Ph.D. (Ekpoma)                | Snr. Lecturer  |
| 16 | Dr. (Mrs.) F.I. Osagiede |  | Snr. Lecturer  |
| 17 | Dr. D.A. Eseigbe         | B.Sc; M.Sc; Ph.D. (Ekpoma)                                   | Lecturer I     |
| 18 | Mr. Osagie, V.E.         | B.Sc; M.Sc. (Benin)  | Lecturer I     |
| 19 | Mr. Alaiya, T.H.         | B.Sc; M.Sc. (Ekpoma)   | Lecturer I     |
| 20 | Dr. Onogbosele, C.O.     | B.Sc (Benin), M.Sc (Ibadan), Ph.D (Brunnel)                  | Lecturer I     |
| 21 | Mr. Izegegbe, J.I.       | B.Sc (Ekpoma), M.Sc (Ife).                                   | Lecturer I     |
| 22 | Mrs. Adekunle, E.        | B.Sc; M.Sc. (Ekpoma)   | Lecturer II    |
| 23 | Mr. Okooboh, G.          | B.Sc. (Ekpoma), M.Sc. (Ibadan)                               | Lecturer II    |
| 24 | Mr. Odoya, E.M.          | DVM (Nsukka), M.Sc (Abraka), M.Sc (Ekpoma)                   | Lecturer II    |
| 25 | Mr. Imade, F.N.          | B.Sc. (Ekpoma), M.Sc. (Ibadan)                               | Asst. Lecturer |
| 26 | Mr. Omoruyi, O.A.        | B.Sc., M.Sc. (Benin)   | Asst. Lecturer |
| 27 | Mr. Edoreh, J.A.         | B.Sc; M.Sc (Benin)   | Asst. Lecturer |

### SERVICE STAFF C: PHYSICS EDUCATION

| S/N | Names of staff          | Qualifications  | Status               |
|-----|-------------------------|---|----------------------|
| 1   | Prof. J.E.A. Osemekhian | B.Sc (London), Ph.D (Cantab), M.Inst.P;FNIP,FABITT                    | Professor (Emiretus) |
| 2   | Prof. S.E. Iyayi        | B.Sc (Nigeria), M.Ed.(Temple); M.Sc; Ph.D. (Ibadan)                   | Professor            |
| 3   | Prof. O. Ujuanbi        | B.Sc; M.Ed; Ph.D. (Ekpoma),   | Professor            |
| 4   | Prof. I. Aigbedion      | B.Sc; M.Sc (Ekpoma), Ph.D. (Benin)                                    | Professor            |
| 5   | Dr. S.I. Jegede         | B.Sc; M.Sc; Ph.D. (Ekpoma)  | Reader               |
| 6   | Prof. B. Efoghe         | B.Sc; M.Sc; Ph.D  | Professor            |
| 7   | Dr. R.O. Okanigban      | B.Sc. (Ekpoma), M.Sc (Benin), M.Phil (Benin), Ph.D. (Benin)           | Snr Lecturer         |
| 8   | Dr. C.V.O. Amadasun     | B.Sc; M.Sc; Ph.D.   | Snr. Lecturer        |
| 9   | Dr. O.J. Ataman         | NCE (Warri), B.Sc. ((Ed)(Nigeria), M.Sc (Ekpoma), Ph.D. (Ekpoma) MNIP | Snr. Lecturer        |

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|----|----------------------|--|----------------|
| 10 | Dr. A. Iyoha         | B.Sc (Ekpoma), M.Sc. (Ekpoma),<br>Ph.D. (Ekpoma) | Snr. Lecturer  |
| 11 | Dr. O.E. Akhirevbulu | B.Sc (Ekpoma), M,Tech (Minna),<br>Ph.D. (Ekpoma) | Snr. Lecturer  |
| 12 | Dr. S. Ehika         | B.Sc (Abraka), M.Sc (Benin), Ph.D.<br>(Benin)    | Snr. Lecturer  |
| 13 | Dr. F. Isoken        | B.Sc; M.Sc; Ph.D.                                | Snr. Lecturer  |
| 14 | Dr. S. Okoodion      | B.Sc; M.Sc; Ph.D.                                | Snr. Lecturer  |
| 15 | Dr. U. Onigbide      | B.Sc; M.Sc; Ph.D.                                | Snr. Lecturer  |
| 16 | Dr. V.U. Kofer       | B.Sc; M.Sc; Ph.D.                                | Snr. Lecturer  |
| 17 | Dr. C.C. Omon        | B.Sc; M.Sc; Ph.D.                                | Lecturer I     |
| 18 | Dr. K.O. Ozegin      | B.Sc; M.Sc. (Ibadan)                             | Lecturer I     |
| 19 | Mrs. A.I. Odeh       | B.Sc (Benin), M.Sc. (Benin)                      | Lecturer I     |
| 20 | Mr. S.O. Salufu      | B.Sc (Nsukka), M.Sc. (Ibadan)                    | Lecturer II    |
| 21 | Mr. E. Airewele      | B.Sc. (Ekpoma), M.Sc. (Benin)                    | Lecturer II    |
| 22 | Mr. E. Onomodo       | B.Sc. (Ekpoma), M.Sc (Nsukka).                   | Lecturer II    |
| 23 | Mr. C. Ojeifoh       | B.Sc. (Ekpoma), M.Sc (Uniben).                   | Lecturer II    |
| 24 | Mr. R.T. Charles     | B.Sc. (Ekpoma),M.Sc (Abakaliki).                 | Lecturer II    |
| 25 | Mr. K.U. Odamen      | B.Sc. (Ekpoma), M.Sc (Delsu).                    | Lecturer II    |
| 26 | Mr. V. Otojiaghe     | B.Sc. (Ekpoma), M.Sc (Delsu).                    | Asst. Lecturer |
| 27 | Mr. L. Ogbomon       | B.Sc. (Ekpoma), M.Sc (Delsu).                    | Asst. Lecturer |
| 28 | Mr. Ogbeide          | B.Sc. (Ekpoma), M.Sc (Delsu).                    | Asst. Lecturer |
| 29 | Mr. A. Obuh          | B.Sc. (Ekpoma), M.Sc (Delsu).                    | Asst. Lecturer |
| 30 | Mr. C.T. Osimen      | B.Sc. (Ekpoma), M.Sc (Delsu).                    | Asst. Lecturer |

#### SERVICE STAFF D: CHEMISTRY EDUCATION

| S/N | Names of staff            | Qualifications                                   | Status        |
|-----|---------------------------|--|---------------|
| 1   | Prof. O.I. Eguavon        | B.Sc, Ph.D. (Lagos)                              | Professor     |
| 2   | Prof. F.Egharevba         | B.Sc; M.Sc. (Ibadan), Ph.D. (Benin)              | Professor     |
| 3   | Prof. I. O. Asia          | B.Sc, MBA (Ekpoma), PDGE,<br>M.Sc, Ph.D. (Benin) | Professor     |
| 4   | Prof. M.O. Osuide         | B.Sc; M.Sc; Ph.D (Benin)                         | Professor     |
| 5   | Prof. P.O. Uhumuavbi      | B.Sc, M.Ed (Benin) Ph.D (Ekpoma)                 | Professor     |
| 6   | Dr. (Mrs.) A. Odia        | B.Sc; M.Sc; Ph.D (Ekpoma)                        | Reader        |
| 7   | Dr. E.E. Egbon            | B.Sc.(Ed), M.Sc (Benin), Ph.D.<br>(Ekpoma)       | Reader        |
| 8   | Dr. O.K. Ize-Iyamu        | B.Sc, M.Sc (Benin), Ph.D.<br>(Ekpoma)            | Reader        |
| 9   | Dr. E.E. Bamuzza-Pemu     | B.Sc, M.Sc (Ibadan), Ph.D. (South<br>Africa)     | Snr. Lecturer |
| 10  | Dr. O.E. Jatto            | B.Sc (Ekpoma), M.Sc. (Ekpoma),<br>Ph.D. (Ekpoma) | Snr. Lecturer |
| 11  | Dr. B.O. Jimoh            | B. Sc (Ekpoma), M.Sc (Ekpoma),<br>Ph.D (Ekpoma)  | Snr. Lecturer |
| 12  | Dr. (Mrs.) M.E. Chukwuedo | B.Sc (Ekpoma), PGDCE, M.Sc<br>(Benin),           | Snr. Lecturer |
| 13  | Dr. D.O. Eriabor          | B.Sc (Benin), M.Sc (Benin), Ph.D                 | Snr. Lecturer |

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|----|-----------------------------|--|-----------------|
|    |                             | (Ekpoma)                                     |                 |
| 14 | Dr. C. Ewansiha             | B.Sc (Benin), MSc(Benin), P.h.D (Ekpoma)     | Snr. Lecturer   |
| 15 | Dr. C. Anayo                | B.Sc (Benin), M.Sc (Ekpoma), Ph.D (Ekpoma)   | Snr. Lecturer   |
| 16 | Dr. I.C. Ado                | B.Sc (Abraka), M.Sc (Ekpoma), P.h.D (Ekpoma) | Snr. Lecturer   |
| 17 | Dr. H. Aigbe                | B.Sc (Ekpoma), M.Sc (Ekpoma), P.h.D (Ekpoma) | Snr. Lecturer   |
| 18 | M.C. Azih                   | B.Sc; M.Phil (Benin)                         | Lecturer I      |
| 19 | Dr. C.C. Chukwuemeka        | B.Sc (Ekpoma), M.Sc (Benin)                  | Lecturer I      |
| 20 | Dr. (Mrs.) E.A. Ehikhamenor | B.Sc (Ekpoma), M.Sc (Benin)                  | Lecturer I      |
| 21 | Mr. A. Ighodalo             | B.Sc (Ekpoma), M.Sc (Ekpoma)                 | Lecturer I      |
| 22 | Mr. C.I. Inetianbor         | B.Sc (Ekpoma) M.Sc (Ekpoma)                  | Lecturer I      |
| 23 | Mr. A. Chaka                | B.Sc (Ekpoma) M.Sc(Ekpoma)                   | Lecturer I      |
| 24 | Mr. C.J. Nweke              | B.Sc (Ekpoma), M.Sc (Ekpoma)                 | Assist Lecturer |
| 25 | Mr. A. Umarein              | B.Sc (Ekpoma) M.Sc. (Ekpoma)                 | Assist Lecturer |
| 26 | Mr. C.T. Sado               | B.Sc (Ekpoma) M.Sc (Ekpoma)                  | Assist Lecturer |
| 27 | Mr. T. Itama                | B.Sc (Ekpoma) M.Sc (Ekpoma)                  | Assist Lecturer |
| 28 | Mr. J.Omorogbe              | B.Sc. (Ekpoma) M.Sc (Ekpoma)                 | Assist Lecturer |
| 29 | Mrs. J.O. Aigboje           | NCE (Igueben) B.Sc (Ekpoma) M.Sc (Ekpoma)    | Assist Lecturer |

#### SERVICE STAFF E: MATHEMATICS EDUCATION

| S/N | Names of staff             | Qualifications  | Status        |
|-----|----------------------------|---|---------------|
| 1   | Prof. F.O. Ipotokin        | B.Sc (Benin), M.Sc, Ph.D (Benin)                                | Professor     |
| 2   | Prof. F.M. Okoro           | B.Sc & M.Sc Ed(Oregon), M.Sc, Ph.D (Illorin)                    | Professor     |
| 3   | Prof. G.U. Agbeboh         | B.Sc Ed (Lagos), M.Sc, Ph.D (Ekpoma)                            | Professor     |
| 4   | Prof. C.E. Abhulimen       | B.Sc Ed (Lagos), M.Sc (Ekpoma), Ph.D (Benin)                    | Professor     |
| 5   | Prof. C.U. Oniawa          | B.Sc MBA (Benin), M.Sc (Benin), Ph.D (Ekpoma)                   | Professor     |
| 7   | Dr. L.A. Ukpebor           | B.Sc (Maiduguri), M.Sc (Benin), P.h.D (Ekpoma)                  | Snr. Lecturer |
| 8   | Dr. A. O. Isere            | B.Sc, M.Sc, P.h.D (Abeakuta)                                    | Snr. Lecturer |
| 9   | Dr. O. Ipotokin            | B.Sc (Ekpoma), M.Sc (Illorin)                                   | Snr. Lecturer |
| 10  | Dr. E. M. Ogbeide          | B.Sc (Ekpoma), MSc (Benin), Ph.D (Benin)                        | Snr. Lecturer |
| 11  | Dr. (Mrs) R. E. Imhalahimi | B.Sc, MSc, Ph.D (Benin)   | Snr. Lecturer |
| 12  | Dr. F. I. Sadiq            | B. Tech (Minna), M.E.A (Ekpoma), M. Tech (Akure), PGDE (Ekpoma) | Snr. Lecturer |
| 13  | Dr. A. I. Elakhe           | B.Sc, M.Sc, Ph.D (Ekpoma)                                       | Snr. Lecturer |
| 14  | Dr. T.V. Agbonghale        | B.Sc, M.Sc, Ph.D (Ekpoma)                                       | Snr. Lecturer |
| 15  | Dr. V. O. Uwaifo           | B.Sc, M.Sc (Ekpoma), Ph.D (Benin)                               | Snr. Lecturer |
| 16  | Dr. (Mrs) J.I. Oviawe      | B.Sc, M.Sc, PhD (Ekpoma)  | Snr. Lecturer |



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|----|---------------------|--|-----------------|
| 17 | Dr. P. Alumen       | B.Sc, M.Sc, Ph.D (Ekpoma)                  | Snr. Lecturer   |
| 18 | Mr. A. Okouromi     | B.Sc, M.Sc (Ekpoma)                        | Lecturer II     |
| 19 | Dr. L. O. Adoghe    | B.Sc, M.Sc, Ph.D (Ekpoma)                  | Lecturer II     |
| 20 | Dr. E. Edionwe      | B.Sc, MSc P.hD (Ekpoma)                    | Lecturer II     |
| 21 | Dr. P. A.Ebhomien   | BSc, PGDE, M.Ed (Ekpoma), Ph.D (Abakaliki) | Lecturer II     |
| 22 | Dr (Mrs) M.O. Asika | B.Sc(Ed) (Abraka), M.Ed, Ph.D (Ekpoma)     | Lecturer II     |
| 23 | Mr. I. O. Osabhohen | BSc, M.Sc (Ekpoma)                         | Assist Lecturer |
| 24 | Mr. M. Eihemua      | B.Sc, M.Sc (Ekpoma)                        | Assist Lecturer |
| 25 | Mr. E. Anolu        | B.Sc, M.Sc (Ekpoma)                        | Assist Lecturer |
| 26 | Mr. P. Aigboje      | B.Sc, M.Sc (Ekpoma)                        | Assist Lecturer |
| 27 | Mr. J.O. Braimiah   | B.Sc, M.Sc (Ekpoma)                        | Assist Lecturer |
| 28 | Mr. F. Ebhohimien   | B.Sc, M.Sc (Ekpoma)                        | Assist Lecturer |
| 29 | Mrs.S. O. Elakhe    | B.Sc, MSc (Ekpoma)                         | Assist Lecturer |
| 30 | Mr. T. Eyafokhai    | B.Sc, M.Sc (Ekpoma)                        | Assist Lecturer |

#### **NON- ACADEMIC STAFF**

| <b>S/N</b> | <b>Names of staff</b> | <b>Qualifications</b>                 | <b>Status</b>               |
|------------|-----------------------|---------------------------------------|-----------------------------|
| 1          | Mrs. O. Ehapa         | Type Writing 35 & 50 W.P.M, B.Sc (Ed) | Chief Secretarial Assistant |
| 2          | Mr. A. Eidangbe       | WASC, 1988, B.Sc (Ekpoma) 2003        | Higher Executive Officer    |
| 3          | Mr. M. Imonsili       | B.Sc (Ed) 2014                        | Instructor                  |
| 4          | Mrs. Ojemere          | FSLC                                  | Clearer/ Messenger          |

#### ***GUIDELINES ON THE COURSE SYSTEM***

##### **CATEGORIZATION OF COURSES**

**CORE COURSES (C):** These are courses within the discipline which must be taken and passed.

**REQUIRED COURSES (R):** These are courses outside the discipline which must be taken on the advice of the Department and passed.

**GENERAL STUDIES COURSES (G):** These are courses of the General Studies Programme which must be taken and passed.

**ELECTIVE COURSES (E):** These are courses within or outside the discipline that are to be taken to meet the requirements of a particular degree programme but need not be passed. However, once registered for, the units count in the computation of results.

**PRE-REQUISITE COURSES:** Pre-requisite courses are courses the knowledge of which is needed prior to the taking of other specified course. A student is deemed to have obtained this pre-requisite knowledge if he/she obtains a mark not less than 30% but will not be credited with any units in the course concerned except he/she scores a minimum of 40%. This particular clause is without prejudice to Faculty requirements.

**COURSE ASSESSMENT:**

- (a) Every course assessment must consist of continuous assessment of 20% and course examination of 80%).
- (b) The pass mark for every course assessment is 45%. Effective from 2013/2014 academic session
- (c) The grading system is as follows:

| Scores | Grade | Grade Point |
|--------|-------|-------------|
| 70-100 | A     | 5           |
| 60-69  | B     | 4           |
| 50-59  | C     | 3           |
| 45-49  | D     | 2           |
| 0 - 44 | F     | 0           |

- (d) Students' results are to be prepared at the end of every session reflecting the units taken, the units passed (accumulated) and the semester's G.P.A.
- (e) At the end of every session students' results are prepared reflecting the units taken during the session, the units passed during the session, the Cumulative Grade Point Average (CGPA), the courses failed for the session and the over-all result of proceeding, or probation or withdrawal from the (degree) programme.
- (f) At the end of the degree programme students' results are prepared reflecting total units registered in the programme, total units passed in the programme, CGPA. Courses failed and degree classification according to the following scheme.

**CGPA**

4.50-5.01

3.50-4.49.1

2.40-3.49.1

1.50-2.39.1

Less Than 1.45

**CLASS OF DEGREE**

First Class

2<sup>nd</sup> Class Upper2<sup>nd</sup> Class Lower

Third Class

Fail

- (g) The CGPA for a student is determined in the following manner:
- (i) For each session the weighted grade point is obtained for each course as the product of the grade point and the units for the course.
- (i) The total weighted grade points and the total units are obtained for each session.
- (ii) The sum of the total weighted grade points for all the sessions and the sum of the total units for all the sessions are calculated to give the cumulative weighted grade points and the cumulative units respectively.
- (iii) On dividing the cumulative weighted grade points by the cumulative units one obtains the cumulative Grade Point Average (CGPA).

As an example, consider a student who takes seven courses in

- (i) a session with the following details:

|          | Units<br>(a) | Mark<br>(b) | Grade<br>(c) | Grade<br>Point(d) | Weighted Grade Point<br>(a) x (d) |
|----------|--------------|-------------|--------------|-------------------|-----------------------------------|
| Course 1 | 3            | 62          | B            | 4                 | 12                                |
| Course 2 | 3            | 51          | C            | 3                 | 9                                 |
| Course 3 | 3            | 45          | D            | 2                 | 6                                 |
| Course 4 | 2            | 33          | F            | 0                 | 0                                 |
| Course 5 | 3            | 45          | D            | 2                 | 6                                 |
| Course 6 | 2            | 52          | C            | 3                 | 6                                 |

|            |   |    |   |   |    |
|------------|---|----|---|---|----|
| Course 7   | 3 | 48 | D | 2 | 6  |
| Total = 19 |   |    |   |   | 45 |

(ii) If a student has the above results over four sessions:

$$\begin{aligned} \text{Then cumulative weighted grade point} &= 45 \times 4 = 180 \\ \text{Cumulative Units} &= 19 \times 4 = 76 \\ \text{Hence CGPA} &= 2.36 \end{aligned}$$

The student will therefore come up in the third class degree classification.

“ There is no reference in any course examination.

“ There is no repeat in the course system. Therefore a student cannot re-register for a course already passed.

“ A student must accumulate at least 30 units per level before graduation, and should not register more than 48 units per session.

“ There is no weighting of sessional GPA in the computation of CGPA.

“ In the computation of the CGPA all courses taken in the session will be used, and therefore no course will be disregarded or discountenanced.; neither should a passed course in a later session be used to replace an earlier failed course.

### **PROBATION:**

- i. A student who makes a CGPA of 1.45 or more at the end of the session will proceed to the next level of the degree programme for which he is registered.
- ii. A student who makes a CGPA of less than 1.45 at the end of the session will be on probation for the following session to enable him/her improve on the CGPA. During that session he must register for the appropriate core-courses, required courses and GST courses which he/she has not passed, and any other courses for which he/she has the pre-requisites.
- iii. A student on probation during a session who makes a CGPA of less than 1.45 during that session must withdraw from the degree programme for which he is registered.
- iv. If the student changes to a new degree programme and obtains a CGPA of less than 1.00 in the new degree programme he/she will again be on probation. If however he obtains a CGPA of less than 1.45 a second time in the new degree programme he/she will be asked to withdraw from the University.

### **TRANSFER:**

1. Every student seeking transfer from one degree programme to another must complete the necessary forms within the stipulated time.
2. All courses taken in the previous degree programme will be used for the computation of the CGPA for the new degree programme.
3. All regulations in respect of the new degree programme concerning core courses, required courses, etc., must be met before graduation.

### ***NECESSITY FOR REGISTRATION***

There are conditions guiding students’ registration. Importantly, except a student registers for the session, he fails to be a student. Without registering, a student is not entitled to write examinations for the session. In actuality, such a student is not entitled to receive lectures as this is the benefit of a bonafide student. Therefore, before registration of courses, the following must be done:

1. Payment of school fees
2. Must have matriculation number
3. Discussion with course adviser

4. Ensuring that results for previous session are checked
5. Registration must be within the first four weeks of resumption (i.e 1st 2 weeks 1st instance, 2 weeks of grace). Failure to register within this time, the student is given an additional 2 weeks for late registration with a sanction.
6. When registering for a current session, a student who failed core courses at a lower level, must have such courses filled in at each of the semesters before the courses for the current level.

### ***CONCLUSION***

For a student to write examination in a course, he/she must have attended at least 75% of the lecture time; and must have registered.

It is important that a student takes active part in class activities. Making a First Class Degree is not impossible because people have done it. Whatever class of degree a student comes out with begins from the very first day he/she arrives the University to begin his/her student career. Lastly, as a student, you should have your own records in your personal file so that you can monitor your progress.

No student shall qualify for the award of an honours degree of the University if he/she spends more than two sessions (four semesters) beyond the normal period allowed for the degree programme.

### ***CODE OF CONDUCT FOR STUDENTS***

The purpose of “code of conduct” for students is to ensure disciplined behaviour; good conduct, socially acceptable behaviour, organizational norm, standard or expectation in relation to personal or group conduct. A code of conduct helps to achieve and sustain peace, co-operation and sense of belonging among students. Once these are achieved, then the goals of the institution would be attained. An attempt will therefore be made to discuss some guides for students’ conduct.

#### ***Guidelines***

1. You must work hard and be focused. It is only by hard work that the aim of coming to school will be achieved. Class attendance is mandatory; and being active in class is also very important.
2. No part in examination malpractice: Involvement in examination malpractice is the worst evil anyone can do to himself. Examination malpractice is evil, and it destroys. There is no way you can be a responsible future leader if you fraudulently acquire a grade you do not deserve. However, once you actually work hard, there is no height you cannot attain. Once you strive to that height on your own merit, it is only then you can be truly self-reliant. In addition, do not forget there is decree against examination malpractice.
3. Cultism is evil, do not belong to any secret cult. Secret cults are not worth belonging to. They cannot give security. They are forms of distractions. Distractions are the least you need because they cannot ensure your success. In addition, secret cults are for the cowardly.
4. Be decent in your dressing, be neat and tidy all the time. Decency breeds respect. Being in a higher institution is not a license to be naked and throw caution to the wind. The higher institution is where responsible future leaders are produced. In addition, avoid chewing of gum. The practice of chewing gum does not portray decency.
5. Show respect to all persons: You should especially respect your lecturers, office staff, respect time and deadlines (e.g if you have been given deadline for payment of your school fees and registration, you must obey such).
6. Many students are very noisy in class. You must learn to avoid such noisy behaviour in classrooms, even around you, wherever you are. Noise is not synonymous with discipline.

7. Always be orderly wherever you are. The culture of queuing and orderliness is worth practicing. Do not rush, but always wait for your turn.
8. Honesty is the ‘soul’ of academics. Therefore, you must be honest, reliable and trustworthy. You must not defraud anyone, no matter in which way. For instance, if your class is 12 noon and the class before yours is 10 am, if you decide to go and sit in the class at 10 am, pretending to be one of the students for that class just to secure space, while you deprive the actual persons of seats, you are being fraudulent and unjust, therefore not honest. We must be fair in all our dealings.
9. Do not be quarrelsome or aggressive. Hostility will not get you anywhere. Try to be friendly with persons you come across with. You must not necessarily be a friend to everyone you meet, but you can be friendly at least. You must not threaten anyone, neither should you intimidate any. In addition, fighting is prohibited.
10. Learn to be tolerant of other people. You may not agree with the beliefs and opinions of others, but you have to be tolerant, knowing that all persons cannot reason the same way. You have to tolerate other people on the basis of beliefs, opinions, religion, political and social affiliations, tribe and sex.
11. Learn to be polite, displaying good behaviour or proper upbringing anywhere you are. You must learn to say ‘please’, ‘pardon’, ‘I’m sorry’, ‘Excuse me’, ‘Thank you’ wherever and whenever the need arises. These are ‘magic phrases’ that when used will go a long way to show you are cultured. By way of emphasis, you must be appreciative for any good thing done for you by saying ‘Thank you’.
12. You are not an island, so you must cooperate with others. In so doing, you should learn to be helpful and render assistance to persons in need.
13. Pride goes before a fall, therefore you should avoid arrogance. Show humility. Humility is not a sign of weakness but greatness. It is a sign of decency.

In conclusion, as students, you should learn to adhere to the above guidelines. Once you are able to do this, then the purpose of your coming to this university will be achieved. All you need is to be focused – pay your school fees, register for your courses, attend classes and be attentive, display good general conduct, and the sky is your limit.

### ***FACULTY OF EDUCATION DRESS CODE***

Since a person is addressed the way he/she dresses, the Faculty has dress code for its students. Therefore, all students of the Faculty must abide with same.

#### ***MALE STUDENTS***

1. A shirt (short or long sleeve) and trousers, with a tie to march. In this case, a pair of shoes must be worn.
2. They can also put on French Suit (or Safari) with either a pair of shoes or sandals. Once there is an inner shirt under the Safari, the student must put on a pair of shoes and a tie.
3. A corporate wear as in a complete suit is acceptable
4. Hair cut must be neat and modest
5. The following forms of dressing are not be allowed:- Jeans, incomplete native dress, waistless trousers, slippers, T-shirts and polo.

#### ***FEMALE STUDENTS***

1. Normal skirts and blouses. The skirt must be at the knee level, the blouse must cover the buttocks if not tucked-in the skirt.
  2. Skirt or trouser suits with matching shoes.
  3. Gowns that falls just below the knee level and worn with shoes or sandals.
  4. Neat and modest hairdo.
  5. No part of the busts must be shown, no sleeveless blouses, short skirts, maxis, native attire (Buba & Wrapper), Jeans, Polo, Transparent wears, T-shirts and slippers.
- Chewing of gum is not allowed for all students of the faculty.

## **DISCIPLINE OF STUDENTS**

### ***DEPARTMENT OF CURRICULUM AND INSTRUCTION***

#### *B. Sc. (Ed/ B.A (Ed)) Degree Options*

The Department runs degree programme leading to the Award of Bachelor of Science and Arts Education degrees in the following areas: Mathematics, Physics, Chemistry, Biology, Computer Science, English, French, Social Studies and Early Childhood Education.

## **PHILOSOPHY**

The training in Mathematics and Science Education is designed to cover all aspects of Mathematical, basic skills in science and methodologies of Mathematics and Science teaching necessary for technological progress in the contemporary modern society

## **OBJECTIVES:**

The courses offered in the Department are focused at:

- Producing graduate science teachers who can teach effectively at the Senior Secondary and Tertiary Institutions;
- Equipping student teachers with necessary skills and competences to enable them cope with the demands of present day school system;
- Preparing the student to contribute meaningfully to the ever increasing population in need of knowledge in Nigeria;
- Producing an opportunity for advancement to those who possess NCE Certificates in science presently teaching in secondary and primary schools and other possessing Diploma/Certificates in related course.
- Producing qualified and competent teachers to man various positions in the Nursery and Primary Schools as well as the effective management of these institutions.

### ***Admission Requirements for the Department of Curriculum and Instruction***

#### **1. Four-Year Programme**

A candidate must have at least five credit passes in the Senior Certificate Examination or its equivalent in not more than two sittings:

- For Science Education (options in Mathematics, Chemistry, Physics and Biology), candidates must obtain credit passes in Mathematics and the subject to be offered including at least a credit pass in English Language, and any other science subject.
- For Pre Primary and Primary Education, candidates must obtain a credit in English Language.

#### **2. Direct Entry (Three –Year Programme)**

Candidates must possess one of the following:

- (i) Passes at merit level in at least two relevant subjects in NCE in addition to GCE O/L credit or its equivalent in three subjects
- (ii) Pass at merit level in a relevant Diploma programme of a recognized university or any other institution recognize by the Senate of the University in addition to 5 credits in GCE O/L or its equivalent.
- (iii) For science Education, candidates must obtain a credit pass in Mathematics, English language and any relevant science subject in SSCE or its equivalent.
- (iv) For Pre Primary/Primary Education, candidates must obtain a credit pass in English Language in the SSCE or its equivalent.

**NOTE:**

- a. A pass in General English at the NCE/Diploma levels is recognized as an equivalent of an O/L credit in English Language
- b. A pass in General Mathematics at the NCE/Diploma level is recognized
- c. Passes at NCE/Diploma excludes Teaching practice

**B. Sc (Ed) Biology****100 LEVEL****FIRST SEMESTER**

| <i>Course Code</i> | <i>Course Title</i>                 | <i>Unit</i> | <i>Status</i> |
|--------------------|-------------------------------------|-------------|---------------|
| EDU 100            | Introduction To Teaching Profession | 2           | C             |
| EDU 101            | Historical Foundation of Education  | 2           | C             |
| EDU 102            | Developmental Psychology            | 2           | C             |
| BIO 101            | General Biology I                   | 4           | C             |
| CHM 101            | General Chemistry I                 | 3           | C             |
| CSC 101            | Introduction to Computer Science    | 2           | C             |
| GST 101            | Use of English and Library          | 4           | C             |
| GST 102            | Philosophy and Logic                | 2           | C             |
|                    |                                     | <b>21</b>   |               |

**SECOND SEMESTER**

| <i>Course Code</i> | <i>Course Title</i>                            | <i>Unit</i> | <i>Status</i> |
|--------------------|--|-------------|---------------|
| EDU 113            | History and Philosophy of Science<br>Education | 2           | C             |
| EDU 114            | Introduction to Adult Education                | 2           | C             |
| EDU 115            | Introduction to Special Education              | 2           | C             |
| GST 111            | Nigerian Peoples and Culture                   | 2           | C             |
| GST 112            | History and Philosophy of Science              | 2           | C             |
| MCB 111            | General Microbiology                           | 4           | C             |
| BIO 111            | General Biology II                             | 4           | C             |
| CHM 102            | Practical Chemistry II                         | 2           | C             |
| CHM 112            | General Chemistry II                           | 2           | C             |
|                    |  | <b>22</b>   |               |

**200 LEVEL****FIRST SEMESTER**

| <i>Course Code</i> | <i>Course Title</i>        | <i>Unit</i> | <i>Status</i> |
|--------------------|----------------------------|-------------|---------------|
| EDU 201            | Philosophy of Education    | 2           | C             |
| EDU 202            | Curriculum and Instruction | 2           | C             |
| BIO 201            | Introduction to Ecology    | 3           | C             |
| BIO 202            | General Physiology         | 2           | C             |
| ZLY 201            | Lower Invertebrate         | 3           | C             |
| ZLY 202            | Higher Invertebrate        | 3           | C             |
| BOT 201            | Seedless Plants            | 3           | C             |
| ENT 201            | Entrepreneurship           | 2           | C             |
| BCH 201            | General Biochemistry       | 3           | C             |
|                    |                            | <b>23</b>   |               |

**DIRECT ENTRY**

|         |                                  |   |   |
|---------|----------------------------------|---|---|
| CSC 101 | Introduction to Computer Science | 2 | C |
|---------|----------------------------------|---|---|

|     |     |                            |   |   |
|-----|-----|----------------------------|---|---|
| GST | 101 | Use of English and Library | 4 | C |
| GST | 102 | Philosophy and Logic       | 2 | C |

**SECOND SEMESTER**

| <b>Course Code</b> | <b>Course Title</b> | <b>Unit</b>                          | <b>Status</b> |
|--------------------|---------------------|--------------------------------------|---------------|
| EDU                | 211                 | Subject Methodology                  | C             |
| EDU                | 212                 | Measurement and Evaluation           | C             |
| EDU                | 213                 | Sociology of Education               | C             |
| BOT                | 212                 | Plant Systematic                     | C             |
| BIO                | 211                 | Genetics I                           | C             |
| BIO                | 215                 | Introducing Development Cell Biology | C             |
| BCH                | 211                 | General Biochemistry II              | C             |
| GST                | 222                 | Peace, Conflict Resolution Studies   | C             |
| ENT                | 211                 | Entrepreneurship                     | C             |
|                    |                     | <b>24</b>                            |               |

**DIRECT ENTRY**

|     |     |                                   |   |   |
|-----|-----|-----------------------------------|---|---|
| GST | 111 | Nigerian Peoples and Culture      | 2 | C |
| GST | 112 | History and Philosophy of Science | 2 | C |

**300LEVEL**

**FIRST SEMESTER**

| <b>Course Code</b> | <b>Course Title</b> | <b>Unit</b>                             | <b>Status</b> |
|--------------------|---------------------|---|---------------|
| EDU                | 300                 | Teaching Practice                       | C             |
| EDU                | 301                 | Educational Administration and Planning | C             |
| EDU                | 302                 | Educational Technology                  | C             |
| EDU                | 303                 | Childhood Education                     | E             |
| EDU                | 304                 | Rural Education                         | E             |
| BIO                | 301                 | Genetics II                             | C             |
| ZLY                | 301                 | Parasitology                            | C             |
| ZLY                | 304                 | Basic Entomology                        | C             |
|                    |                     | <b>23</b>                               |               |

**SECOND SEMESTER**

| <b>Course Code</b> | <b>Course Title</b> | <b>Unit</b>                              | <b>Status</b> |
|--------------------|---------------------|--|---------------|
| EDU                | 311                 | Educational Psychology                   | C             |
| EDU                | 312                 | Educational Research and Data Processing | C             |
| EDU                | 313                 | Integrated Science                       | C             |
| EDU                | 314                 | Adolescent Psychology                    | E             |
| BIO                | 311                 | Introduction to Nematology               | C             |
| ZLY                | 304                 | Basic Entomology                         | C             |
| ZLY                | 306                 | Chordates                                | C             |
| BIO                | 215                 | Cell Biology                             | C             |
|                    |                     | <b>24</b>                                |               |

**400LEVEL**

**FIRST SEMESTER**

| <b>Course Code</b> | <b>Course Title</b> | <b>Unit</b> | <b>Status</b> |
|--------------------|---------------------|-------------|---------------|
|--------------------|---------------------|-------------|---------------|



|     |     |                         |   |   |
|-----|-----|-------------------------|---|---|
| EDU | 400 | Students Project        | 6 | C |
| EDU | 401 | Practical Teaching      | 3 | C |
| EDU | 402 | Guidance and Counseling | 2 | C |
| EDU | 403 | Continuous Assessment   | 2 | C |
| BOT | 401 | Plant Physiology II     | 3 | C |
| ZLY | 402 | Parasitology II         | 3 | C |
| ZLY | 403 | Hydrobiology            | 3 | C |
| ZLY | 404 | Entomology              | 3 | C |

**25Units**

## **SECOND SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>                           | <b>Unit</b> | <b>Status</b> |
|--------------------|---|-------------|---------------|
| EDU 411            | Organization of Primary and Secondary Schools | 2           | C             |
| EDU 412            | Emergent Problems in Nigeria Education        | 2           | C             |
| EDU 413            | Comparative Education                         | 2           | C             |
| EDU 414            | Education Law                                 | 2           | E             |
| MCB 412            | Environmental Microbiology                    | 3           | C             |

**11Units**

## **COURSES DESCRIPTION (100 LEVEL – 400 LEVEL)**

### **BIO 101: General Biology I (4Units)**

Cell structure and organization, function of cellular organelles, diversity, characteristic and classification of living things, general reproduction, interrelationship of organisms, heredity and evolution or ecology and types of habitats

### **BIO 111: General Biology II (4Units)**

A general survey of plant and animal Kingdoms based mainly on study of similarities and differences in the external features, ecological adaptations of these forms.

### **CHM 101: General Chemistry I (3 Units)**

Atoms, Molecules, atomic structure, the development of the atomic theory, electronic configuration, chemical equations, stoichiometry. Gases: The gas laws, the ideal (or Perfect) gas equations; real gases, critical constants chemical equilibrium. Equilibrium constants (Kc and Relationship; the position of equilibrium. Le Chatellier principle; Solubility products, products, partition law, colligative properties, Acids and Bases. Thermodynamics; various types thermodynamics system. First law of thermodynamic factors affecting rates of reaction, electrolytes and non-electrolytes, laws of electrolysis and applications

### **CHM 102: Practical Chemistry (2 Units )**

Acid –base titrations; Redox titrations synthesis and preparation of inorganic compounds. Analysis of selected anions and cautions preparations and qualitative preparations and qualitative analysis of organic compounds pH measurement

### **CSC 101: Introduction to Computer Science (2 Units)**

History of Computers, Functional components of computers, characteristics of computers, understanding disk operating system (DOS) and its files structure, Data representation (Number systems and character representation). Basic computer algorithms, pseudocodes, flow-charts.

Introduction to information Technology, Introduction to Basic or programming languages; overview of computer applications

**MCB 111: General Microbiology (4Units)**

History and development of Microbiology fundamental theories. The structure, classification and distribution of micro-organisms in nature (Viruses, bacteria, fungi and Algae), principles and methods of general microbiology, culture, scanning microscopy and sterilization of media and equipment, the importance of micro-organism to man. Safety in microbiology laboratory, the cultural morphology, structural and biochemical characteristics of fungi, bacteria and viruses, bacteria, fungi and viral classification and identification scheme of fungi and bacteria. Microbial variation and heredity, cycles of elements in nature.

**(All direct entry students must register for MCB 111)**

**BIO 201: Introductory Ecology (3Units)**

The general nature of ecosystems, energy flow and biochemical cycles in ecosystems, Ecology of populations and communities. The organization and dynamics of ecological communities. The distribution of plants and animals over the surface of the earth with special reference to Nigerian plants and animals.

**(Pre-requisite BIO 101)**

**IO 202: General Physiology (2Units)**

Physical and chemical processes in Animal and Plant physiology

**ZLYB 201: Invertebrates (4Units)**

General characteristics, organization, classification, interrelationship, life history, adaptation and economic importance of invertebrate, physically illustrated with selected examples from Arthropodato Echinodemate.

**ZLY 202: Animal Taxonomy (3Units)**

History, rise and development of taxonomy, Taxonomic approach, principles and characters. Special methods of zoological classification. Variations in natural populations. The use of identification keys and classification of selected vertebrates. The application of statistics in taxonomy.

**BIO 211: Genetics I (3 Units)**

Heritable and non-heritable characteristics, probability and tests of goodness of fit, quantitative inheritance, variation in genome structure. Introduction to population genetics **Pre-requisite BOT 101**

**BOT 213: Seed Plants and Anatomy (3Units)**

A general survey of seed plants, general morphology, evolution of the different groups. Organization of the plant body, the roots, stem, leaves, flowers, fruits and seed, plant organs, Reproduction, sexual and vegetative reproduction.

**BOT 301: Plant Ecology/Field Course (3Units)**

Description and classification of vegetation, types of vegetation in Nigeria; Qualitative and quantitative methods for the study of vegetation. Vegetation dynamics, autecology, synecology,

ecological groups, hydrophytes, aerophytes, epiphytes and mesophytes. Effect of physical environment on plants, climatic, biotic and topographical factors.

**BOT 303: Plant Taxonomy (3Units)**

Taxonomy and its significant principle and concepts in plant taxonomy, construction and use of taxonomic keys. Experimental taxonomy with special emphasis on cytotaxonomy and chemotaxonomy.

**Pre-requisite BIO 212**

**BOT 304: Metabolic Plant Physiology (3Units)**

Enzymes, Proteins and amino acids. Photosynthesis light and dark reactions. C-A carboxylic acid pathway, crassulacean acid metabolism, formation of sucrose and starch, environmental and agricultural aspects of photosynthesis, Respiration, Krebs cycle, electron transport system and oxidative phosphorylation, the pentose phosphate pathway. Assimilation of Nitrogen and sulphur cycles. Lipids and aromatic compounds e.g. phenolic and alkaloids

**BIO 301: Genetics II (3 Units)**

Aspect of human genetics, pedigree analysis; further consideration of various deviations from basic principles. Genetic interactions

**Pre-requisite BIO 211**

**BIO 302: Introduction to Nematology (3 Units)**

Principle characteristics of Nematodes, Morphology position and outlines of classification of Nematodes; morphology and biology of important plant parasitic nematodes and their economic importance. Nematological techniques, general principles methods of controlling nematodes

**Pre-requisite ZLY 202**

**ZLY 202: Animal Taxonomy (3 Units)**

History, rise and development of taxonomy, taxonomic approach, principles and characters; special methods of zoological classification, variations in natural population. The use of identification keys and classification of selected vertebrates, and the application of statistics in taxonomy.

**ZLY 301: Basic Parasitology (3 Units)**

The concepts of parasitism, host parasite relationship, taxonomy morphology and life cycles of major parasitic group affecting man and domestic animals in tropical Africa, transmission epidemiology, pathology and control of parasitic diseases. A comprehensive review of arthropods as intermediate hosts and vector, their habitants, life cycle, transmission and control **Pre-requisite ZLY 201 and 202**

**ZLY 306: Higher Chordates (3 Units)**

General characteristics, organization, comparative morphology and anatomy classification range of forms, origin evolution and phylogenetic relationships; distributional and general biology of protochordata, pisces and amphibians illustrated with selected examples **Pre-requisite ZLY 201 and 202**

**BOT 313: Plant Pathology (3 Units )**

Techniques of plant pathology, principles and Practices of plant pathology, plant infection, causal agents of diseases, and types of plant diseases.

**ZLY 304: Basic Entomology (3 Units)**

An introductory course to the study of the main groups of insects related to human welfare and economy. Insect evolution, classification and distribution, insect integument, composition, structure and physiology; muscular / nervous system, respiration, digestion and excretion. Blood circulation, water system, behaviour and ecology of social insects, bionomics of suitable species and general principles and methods of anthropoids' pest control.

**Pre-requisite ZLY 202****BOT 401: Plant Breeding (3Units)**

The objectives of plant breeding, origin and domestication as basis for breeding, self pollinated and cross-pollinated crops. Breeding methods, pureline breeding and mass selection, pedigree method; bulk population breeding, back-cross breeding, recurrent selection, heterosis, chromosome manipulation

**ZLY 402: Applied Parasitology (3Units)**

The origin and evolution of parasite, and ecological basis of parasitism, ecology and geographical distribution of animal parasite; Immunological phenomena, immunodiagnosis, autoallergy and its relation to parasite, diseases, biochemistry-oxygen relations, CO<sub>2</sub> utilization, energy metabolism, active transport phosphorylation, physiology of host parasite relationship, epidermology and public health parasitology, epidermological methods. Health related aspect of community development **Pre-requisite ZLY 301**

**ZLY 403: Applied Hydrobiology (3 Units)**

Production processes of invertebrates that facilitate management of fish stocks, distribution adaptation and interrelationships, tropic relations, energy flow and consequent applied implications in terms of productions and utilization, Man's influence on aquatic community, pollution to lead capacity of inland waters reaction of water bodies to disturbances, hydrobiology research techniques **Pre-requisite ZLY 305**

**ZLY 404: Applied Entomology (3 Units)**

Systematic and bionomics, or major insect orders with particular reference to tropical and subtropical species of Agricultural medical and veterinary importance, pesticides-classification and mode of action, pest management, insect reproductive system, embryonic and post embryonic developments, physiology of moulting, Hormones and Pheromones **Pre-requisite ZLY 315.**

**MCB 412: Environmental Microbiology (3 Units)**

Microbiology of sanitation and sanitary practice as it relates to contamination of air, water and food. Microbiology of water supply and sewage treatment, eutrophication, concept and importance, biochemical oxygen-demand, biodegradation of materials, pollution in the oil industries and its control; aerobiology sources, importance and control of airborne micro-organisms.

***B. Sc (Ed) Chemistry******100 LEVEL*****FIRST SEMESTER**

| Course Code | Course Title                        | Unit | Status |
|-------------|-------------------------------------|------|--------|
| EDU 100     | Introduction to Teaching Profession | 2    | C      |
| EDU 101     | Historical Foundation of Education  | 2    | C      |
| EDU 102     | Developmental Psychology            | 2    | C      |

|     |     |   |           |   |
|-----|-----|---|-----------|---|
| BIO | 101 | General Biology I                             | 4         | C |
| CHM | 101 | General Chemistry I                           | 3         | C |
| CSC | 101 | Introduction to Computer Science              | 2         | C |
| GST | 101 | Use of English and Library                    | 4         | C |
| GST | 102 | Philosophy and Logic                          | 2         | C |
| PHY | 102 | General Physics I (Electricity and Magnetism) | 3         | C |
|     |     |   | <b>24</b> |   |

## SECOND SEMESTER

| Course Code | Course Title | Unit   | Status    |   |
|-------------|--------------|--|-----------|---|
| EDU         | 113          | History and Philosophy of Science Education  | 2         | C |
| EDU         | 114          | Introduction to Adult Education              | 2         | C |
| EDU         | 115          | Introduction to Special Education            | 2         | C |
| CHM         | 102          | Practical Chemistry II                       | 2         | C |
| CHM         | 112          | General Chemistry II                         | 3         | C |
| MTH         | 112          | Calculus                                     | 3         | C |
| PHY         | 111          | General Physics II (Heat and Kinetic Theory) | 3         | C |
| GST         | 111          | Nigerian Peoples and Culture                 | 2         | C |
| GST         | 112          | History and Philosophy of Science            | 2         | C |
|             |              |  | <b>21</b> |   |

## 200 LEVEL

### FIRST SEMESTER

| Course Code | Course Title | Unit                       | Status    |   |
|-------------|--------------|----------------------------|-----------|---|
| EDU         | 201          | Philosophy of Education    | 2         | C |
| EDU         | 202          | Curriculum and Instruction | 2         | C |
| CHM         | 201          | Physical Chemistry II      | 2         | C |
| CHM         | 202          | Inorganic Chemistry II     | 2         | C |
| CHM         | 203          | Organic Chemistry II       | 2         | C |
| BCH         | 201          | General Biochemistry I     | 3         | E |
| CSC         | 203          | Computer Programming I     | 4         | E |
| ENT         | 201          | Entrepreneur I             |           |   |
|             |              |                            | <b>17</b> |   |

### DIRECT ENTRY

|     |     |                            |   |   |
|-----|-----|----------------------------|---|---|
| GST | 101 | Use of English and Library | 4 | C |
| GST | 102 | Philosophy and Logic       | 2 | C |

## SECOND SEMESTER

| Course Code | Course Title | Unit                       | Status |   |
|-------------|--------------|----------------------------|--------|---|
| EDU         | 211          | Subject Methodology        | 3      | C |
| EDU         | 212          | Measurement and Evaluation | 3      | C |
| EDU         | 213          | Sociology of Education     | 2      | C |
| CHM         | 204          | Experimental Chemistry     | 2      | C |
| CHM         | 211          | Analytical Chemistry       | 2      | C |

|     |     |                                    |   |   |
|-----|-----|------------------------------------|---|---|
| CHM | 212 | Carbohydrate Chemistry             | 2 | C |
| BIO | 112 | General Biology II                 | 4 | C |
| BCH | 211 | General Biochemistry II            | 3 | C |
| PHY | 112 | General Modern Physics I           | 2 | C |
| GST | 222 | Peace, Conflict Resolution Studies | 2 | C |
| ENT | 211 | Entrepreneur II                    |   |   |

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### **DIRECT ENTRY**

|     |     |                                   |   |   |
|-----|-----|-----------------------------------|---|---|
| GST | 111 | Nigerian Peoples and Culture      | 2 | C |
| GST | 112 | History and Philosophy of Science | 2 | C |

### **300 LEVEL**

#### **FIRST SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>                     | <b>Unit</b> | <b>Status</b> |
|--------------------|---|-------------|---------------|
| EDU 300            | Teaching Practical                      | 3           | C             |
| EDU 301            | Educational Administration and Planning | 2           | C             |
| EDU 302            | Educational Technology                  | 2           | C             |
| EDU 303            | Childhood Education                     | 2           | E             |
| EDU 304            | Rural Education                         | 2           | E             |
| CHM 302            | Inorganic Chemistry III                 | 3           | C             |
| CHM 303            | Organic Chemistry                       | 4           | C             |
| CHM 306            | Petrol Chemistry                        | 2           | C             |
| CHM 308            | Natural Product Chemistry               | 2           | C             |
| CHM 309            | Instrumental Methods of Analysis        | 3           | C             |

**25**

#### **SECOND SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>                      | <b>Unit</b> | <b>Status</b> |
|--------------------|--|-------------|---------------|
| EDU 311            | Educational Psychology                   | 2           | C             |
| EDU 312            | Educational Research and Data Processing | 3           | C             |
| EDU 313            | Integrated Science                       | 2           | C             |
| EDU 314            | Adolescent Psychology                    | 2           | E             |
| CHM 321            | Applied Surface and Colloid Chemistry    | 2           | C             |
| CHM 304            | Experimental Chemistry III               | 2           | C             |
| CHM 213            | Environmental Science                    | 2           | C             |
| CHM 214            | Radio and Nuclear Chemistry              | 2           | C             |

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### **400 LEVEL**

#### **FIRST SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>              | <b>Unit</b> | <b>Status</b> |
|--------------------|----------------------------------|-------------|---------------|
| EDU 400            | Students Project                 | 6           | C             |
| EDU 401            | Practical Teaching               | 3           | C             |
| EDU 402            | Guidance and Counseling          | 2           | C             |
| EDU 403            | Continuous Assessment            | 2           | C             |
| CHM 401            | Quantum Chemistry/Atomic Physics | 2           | R             |
| CHM 402            | Advance Chemistry Kinetics       | 3           | C             |
| CHM 403            | Advance Electrochemistry         | 2           | C             |
| CHM 404            | Polymer Technology               | 2           | C             |

|         |                         |           |   |
|---------|-------------------------|-----------|---|
| CHM 405 | Organic Synthesis       | 3         | C |
| CHM 406 | Co-ordination Chemistry | 3         | C |
|         |                         | <b>28</b> |   |

## SECOND SEMESTER

| Course Code | Course Title                                  | Unit      | Status |
|-------------|---|-----------|--------|
| CHM 411     | Seminar                                       | 1         | C      |
| CHM 414     | Natural Products Chemistry I                  | 2         | C      |
| EDU 411     | Organization of Primary and Secondary Schools | 2         | C      |
| EDU 412     | Emergent Problems in Nigeria Education        | 2         | C      |
| EDU 413     | Comparative Education                         | 2         | C      |
| EDU 414     | Education Law                                 | 2         | E      |
|             |   | <b>11</b> |        |

## COURSES DESCRIPTION (100 LEVEL - 400 LEVEL)

### CHM 101: General Chemistry I (3 Units )

Atoms, Molecules, atomic structure, the development of the atomic theory, electronic configuration, chemical equations, stoichiometry. Gases: The gas laws, the ideal (or Perfect) gas equations; real gases, critical constants, chemical equilibrium. Equilibrium constants (Kc and Relationship the position of equilibrium. Le Chatellier principle; Solubility products, products, partition law, colligative properties, Acids and Bases. Thermodynamics; Various types of thermodynamics system. First law of thermodynamic factors affecting rates of reaction, electrolytes and non-electrolytes, laws of electrolysis and applications.

### CHM 102: Practical Chemistry (2 Units )

Acid-based titrations; Redox titrations synthesis and preparation of inorganic compounds. Analysis of selected anions and cautions preparations and qualitative preparations and qualitative analysis or organic compounds pH measurement

### CHM 112: General Chemistry II (3 Units)

Periods relationships in the table of main group elements, the periodic law, anomalies in the periodic table. Valence forces, structure of solids, chemistry of selected metals and non-metals/organic chemistry; definition, history, classification of organic compounds nomenclature, homologous series, functional group (e.g alkaline, alkenes, alkynes, alcohols, phenols, thios, steroids, aldehydes, ketones, carboxylic acids, ether esters, amides nitrile haloalkenes, sulphoxides and sulphones. Basic stereochemistry, electronic theory in organic chemistry, saturated hydrocarbons; unsaturated hydrocarbons.

**BIO 101: General Biology I (4Units)** Cell structure and organization, function of cellular organelles, diversity, characteristic and classification of living things, general reproduction, interrelationship of organisms, heredity and evolution or ecology and types of habitats.

### CSC 101: Introduction to Computer Science (2 Units)

History of Computers, Functional components of computers characteristics of computers, understanding disk operating system (DOS) and its files structure, Data representation (Number systems and character representation). Basic computer algorithms, pseudocodes, flow-charts.

Introduction to introduction to information Technology, Introduction to Basic or Fortran programming languages, overview of computer applications.

**PHY 102: General Physics I (Electricity and Magnetism) 3 Units**

Electric charges and fields, conductors and insulators, charging by friction and induction; coulomb's electric field and potential; capacitors and dielectrics, effects of dielectrics electric current direct current circuits, kirchoff's laws, magnetic field of electric voltmeters, induced emf Faraday's laws and Lenz's Law, inductance and capacitance; alternating current series.

**MTH 112: Calculus (3 Units)**

Functions of a real variable, graphs limits and ideas of continuity, the denature, as limit of rate of change techniques of differentiation, extreme curve sketching integration as an inverse of differentiation, methods of integration of definite integrals application to areas, volume.

**PHY 111: General Physics III (Heat and Kinetics Theory 2 Units)**

Temperature and expansion: heat and heat measurement, thermal properties of matter, molecular theory of matter equations of state heat phenomena, transfer of heat and laws of thermodynamics.

**CHM 201: Physical Chemistry II (2 Units)**

Gases: qualitative treatment of the Maxwell distribution molecular velocities, mean free path, transport properties of molecular velocities mean free path, transport properties of gases, viscosity, diffusion calculation of molecular diameter from viscosity and diffusion of data and the principle of equipartition of energy.

**Chemical Kinetics:** Rate laws, order of reaction (mathematical derivation), Arrhenius equation and dependence on temperature of reaction velocities chemical, thermodynamic; law of thermo chemistry (Hess's law): Heats of reactions, energy level, diagram of Exothermic and endothermic reaction, thermochemical calculations.

**Phase equilibria;** Heterogeneous equilibrium, phase rule, phase diagrams, Thermodynamics treatment of equilibrium, the Van's Hoff's equation and the Helmholtz equation.

**CHM 202: Inorganic Chemistry II (3 Units)**

1. Chemistry of the main group element groups. IA-VIIA: the gasses;
2. Diagonal relationship chemistry of the transition metals.  
Basic co-theory, comparative chemistry of the following elements.
3. (a) Ga, In Ti (b) Ge, Sn, Pb (c) As Sb Bi (d) Sr Te Po  
Elementary introduction to organo-metallic chemistry, significance of metals in biochemical systems **Pre-requisite CHM 112**

**CHM 203: Organic Chemistry II (3Units)**

Factors affecting structure and physical properties of organic compounds, factors affecting directional movements of electrons in organic reactions, energy of activation, entropy of activation; transition-state theory diagrams, addition elimination, electrophilic substitutions (displacement) aromaticity illustrated with benzene aromatic electrophilic substitutions **Pre-requisite CHM 112.**



**CHM 204: Experimental Chemistry II (2 Units)**

The laboratory course consists of a group of experiments drawn from physical inorganic chemistry and Analytical chemistry.

**BCH 201: General Biochemistry I (3Units)**

Definition of Biochemistry and a short review of the subject, chemical characteristics of living matter, classification, nomenclatures, structures and Properties of carbohydrates, classification and chemistry of amino-acids, proteins and their derivatives, acidity and alkalinity, pH and pka values and their effects on cellular activities. Buffers, Biochemistry practical is also taken as parts of the course **Pre-requisite BIO 101**

**CSC 203: Computer Programming I (4 Units)**

Introduction of problem solving methods and algorithm development designing coding debugging and documenting programmes using techniques of a good programming language style computer organization, programming language, programming algorithm development. A widely used programming language should be used **Pre-requisite CSC 101.**

**CHM 211: Carbohydrate Chemistry (2 Units)**

Classification of structure and Nomenclature, chemistry properties of monosacharides, oxidation, reaction in base reduction, Ruff degradation, Killinani-Fischer synthesis Osazone formation configurations, epimerization.

**CHM 212: Polymer Chemistry (2 Units )**

Polymer –meaning and Nomenclature, formation of polymers. Types of polymers. Natural Rubber Latex, Sources, collection. Concentration, Quality control test on latex, Polymerization reactions, sources of raw materials for polymers, addition and condensation polymerization, initiators for polymerization reactions, Fibres, meaning and characteristics, synthetic fibres, polyamides, (nylon), Polyesters (Dacron), Polyacrylonitrile (orlon) and Isotactic polypropylene.

**CHM 213: Environmental Science (2Units)**

Concepts of elementary cycles characteristics of the atmosphere. Elementary treatment, of land, air and water pollution. Sources, types of effects of primary pollutants. Ozone layer as a shield and as a pollutant. Thermal air pollution. Green House effect, Economic importance of environmental pollution.

**CHM 214: Radio and Nuclear Chemistry (2 Units)**

Pre-requisite Natural radio-actions fusion Fission, decay processes nature of radiation nuclear reaction, principles and measurement of radioactivity, application of radio-activity and radiation hazards.

**BIO 111: General Biology II (4Units)**

A generalized survey of the plant and animal Kingdoms based mainly on study of similarities and differences in the external features, ecological adaptations of these forms.

**PHY 112: General Modern Physics (2 Units)**

Atomic structure, blackbody radiation, photoelectric effect, line spectra the Bohr atom; Atomic spectra, X-rays, production and properties, the nuclear atom t, radio-activity, nuclear fission and

nuclear fusion, basic electronics semiconductors, junction diode transistors and applications (qualitative treatment).

**BCH 211: General Biochemistry II (3 Units)**

Classification, nomenclatures, structures, chemistry, properties and biological functions of fatty acids, triglycerides, phosphoglycerides, sphingolipids, waxes, terpenes, steroids and prostaglandins, lipoprotein and membranes, classification nomenclatures, structures and chemistry of nucleases, nucleosides nucleotides and nucleic acids. Nucleic acid protein supra molecular complexes structures and function of major cell components, prokaryotic and eukaryotic organisms, biochemistry practical is also taken as part of the course (**Pre-requisite BIO 101**)

**CHM 302: Inorganic Chemistry III (3 Units )**

The noble gases, hydrogen, electronic structure and general properties and comparative study of group IA and group IIA elements. Chemistry of boron, carbon and silicon nitrogen and phosphorous oxygen and sulphur, the halogens. Transition elements separation of metals, co-ordination chemistry ligand crystal field theories introductory radio-chemistry radioactivity and the periodic table.

**CHM 303: Organic Chemistry III (3Units)**

Alcohols: Nomenclature preparation and reactions. Ethers and epoxides, carboxylic acids, nomenclature, preparation, reactions, carbonions, amines, nomenclature, preparation of chemical properties, classification of organic compounds, aromatic and alicyclic chemistry, poly-functional compounds, heterocyclic chemistry.

**CHM 306: Petroleum Chemistry (2Units)**

The consequences of growing energy use; perspective on energy conservation, petroleum, its origin and place in the contemporary energy scene, classification composition of crude oil (petroleum) and natural gas global distribution of petroleum fractions obtained from the distillation of petroleum, petroleum technology, survey of refinery products and process petrochemicals industry in Nigeria

**CHM 308: Natural Products Chemistry I (1Units)**

Terpenoids, Isoprene rule, carotenoids, alkaloids: meaning, classification, economic importance steroids sex hormones, androgens, estrogens progestines contraceptives adrenocortical steroids, D vitamins, other vitamins e.g cholic acid and disosgenin, bio-synthesis of cholesterol lipids.

**CHM 309: Instrumental Methods Analysis (2 Units)**

Introduction to spectroscopy, electromagnetic radiation, interaction of electromagnetic radiation with matter, electromagnetic spectrum, UV and visible spectrophotometry, infrared, NMR Mass spectroscopy, calorimetry, photometry, fluorescence method X-ray, refractometry and interferometry polarimetry, colorimetry calorimetry and polarography.

**CHM 304: Experimental Chemistry III (2Units)**

Selected important experiments designed to improve the practical skill of the students and to enhance their understanding of the relevant theories. Topics contained in this package ensure a wide coverage of the diverse areas of chemistry.

**(Pre-requisite CHM 204)**

**CHM 321: Applied Surface and Colloid Chemistry (2Units)**

General principles relating to surfaces, electrical potentials, attractive forces, solids gas interfaces, definition of colloids, historical survey of colloid development, types of colloids, polymers proteins, gels association colloids concept of detergency

#### **CHM 401: Quantum Chemistry /Atomic Physics (3Units )**

Postulates of quantum theory, operators angular momentum, solution of the hydrogen atom problem. Theory of atomic spectra. Self-consistent field theory Computational aspects, Perturbation and variation methods. Idea of quantum states, orbital shape and energy. Simple valence theory; electron pair repulsion theory, atomic spectra, determination of molecular shape bond lengths and angles. The structure and chemistry of some compounds of main group elements. Schrodinger equation; helium atom; ground and excited states, spin EXCLUSION PRINCIPLE; Hund's rule; hydrogen molecule. Comparison of molecular orbital and valence bond theory. Concept of resonance and configuration interaction. Coulson Fischer function: Molecular orbital for diatomic molecules. Simple pi electron theory. Huckel Theory; Walsh rules. Rotational vibrational and electronic spectra; Determination of bond lengths and angles, Russel Saunders coupling; orbital and spin angular momentum; use of symmetry in chemistry

#### **CHM 402: Advanced Chemical Kinetics (2 Units)**

Complex reaction systems, derivation from elementary reactions, concurrent reactions, opposing reactions consecutive reactions, radical reactions, theories of reaction rates collision theory and absolute (transition states) theory, relationship between the two theories, theory of unimolecular reactions, Linderman,s theory modifications and treatments by Hinshewood RRK, Slater phosphores, concepts photosensitization, radiation chemistry, interaction of radiation with matter, ion and electrons radiolysis.

#### **CHM 403: Advanced Electrochemistry (2Units)**

Electrical double layer, potential at Zero charge polarizable and non-polarizable interface, mass transport concentration polarization, Fick's laws Levic equation electronics polarography.

#### **CHM 404: Polymer Technology (3Units)**

Large scale industrial Polymerization process Rubber technology, Natural Rubber, Grades, SBR polymer, polybutadiene rubber, butyl rubber, Ethylene propylene rubber Nitrile Rubber, Silicon Rubber, Fluoro-elastomer, Polychloroprene rubber. Plastics, properties and applications, cellulose plastics, polycarbonates. Polymer processing: injection, extrusion, compression and transfer moulding of thermoplastics. Polymer additives, Polymeric surface coating, adhesives.

#### **CHM 405: Organic Synthesis (2Units)**

Concept of synthesis. Use basic functional group concepts in complex synthetic schemes, methods of formation C-H-C-C-X and C-N bonds; Oxidation reduction – use of metal hydrides, hydrogenation, Reaction intermediate carbenes notrenes arynessiomos-smith cyclopropane synthesis ylides, witting reaction, organometallic compounds in synthetic organic chemistry.

#### **CHM 406: Co-ordination Chemistry (3 Units)**

Co-ordination compounds – definition, application, Nomenclature, co-ordination formula and isomerism in complexes, stereochemistry of complex molecules . Theories of structure and bonding, physical methods of structural spectro-chemical series. The Nephelauxetic series and the John – Teller distortions. Stabilization of unusual oxidation states by complex formation. Thermodynamic stability of complex compound, the stability complexes, kinetics and mechanism

**CHM 411: SEMINAR (2Units)**

A critical review of the literature in an area of interest, the course is aimed at giving the students a good knowledge on how to prepare and deliver seminar papers.

**CHM 414: Natural Products Chemistry II (2 Units)**

Chemistry of terpenoid and alkaloid, antibiotics flavonoids, prostaglandin and chlorophylls. Other natural products of pharmaceutical importance. General methods of isolation, separation, purification and structural determination of the natural products. Classifications, discussion of chemistry of important members, Biogenesis.

**B.Sc (Ed) Mathematics****Objectives:**

1. to produce teachers with sufficient knowledge of Mathematics to handle the teaching of Mathematics in Secondary schools.
2. to produce Mathematics teachers who are fully equipped with adequate pedagogical skills for teaching Mathematics.
3. to produce Mathematics teachers with adequate skills and content knowledge to pursue further education in Mathematics education.
4. to produce graduate teachers who will be able to carry out research into the teaching and learning of Mathematics
5. to produce graduate teachers who will be able to apply mathematical skills to better the lots of the society they live in.

**100 LEVEL****FIRST SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>                           | <b>Unit</b> | <b>Status</b> |
|--------------------|---|-------------|---------------|
| EDU 100            | Introduction to Teaching Profession           | 2           | C             |
| EDU 101            | Historical Foundation of Education            | 2           | C             |
| EDU 102            | Developmental Psychology                      | 2           | C             |
| MTH 101            | Algebra and Trigonometry                      | 3           | C             |
| STA 101            | Statistics for Physical Science & Engineering | 4           | C             |
| CSC 101            | Introduction to Computer Science              | 2           | C             |
| PHY 102            | General Physics                               | 3           | R             |
| GST 101            | Use of English and Library                    | 4           | C             |
| GST 102            | Philosophy and Logic                          | 2           | C             |
|                    |   | <b>24</b>   |               |

**SECOND SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>                         | <b>Unit</b> | <b>Status</b> |
|--------------------|---|-------------|---------------|
| EDU 113            | History and Philosophy of Science Education | 2           | C             |
| EDU 115            | Introduction to Special Education           | 2           | C             |
| EDU 114            | Introduction to Adult Education             | 2           | C             |
| MTH 111            | Vectors and Coordinate Geometry             | 3           | C             |

|     |     |                                   |   |   |
|-----|-----|-----------------------------------|---|---|
| MTH | 112 | Calculus                          | 3 | C |
| MTH | 113 | Introduction to Computer Science  | 2 | C |
| GST | 111 | Nigerian Peoples and Culture      | 2 | C |
| GST | 112 | History and Philosophy of Science | 2 | C |
| PHY | 111 | General Phy II                    | 3 | C |

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**200 LEVEL**

**FIRST SEMESTER**

| Course Code | Course Title                        | Unit | Status |
|-------------|-------------------------------------|------|--------|
| EDU 201     | Philosophy of Education             | 2    | C      |
| EDU 202     | Curriculum and Instruction          | 2    | C      |
| MTH 201     | Advance Calculations                | 3    | C      |
| MTH 202     | Linear Algebra I                    | 3    | C      |
| MTH 204     | Real Analysis I                     | 4    | C      |
| MTH 205     | Elementary Differential Equations I | 3    | C      |
| ENT 201     | Entrepreneurship                    | 2    | C      |

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**DIRECT ENTRY**

|     |     |                                  |   |   |
|-----|-----|----------------------------------|---|---|
| CSC | 101 | Introduction to Computer Science | 2 | C |
| GST | 101 | Use of English and Library       | 4 | C |
| GST | 102 | Philosophy and Logic             | 2 | C |

**SECOND SEMESTER**

| Course Code | Course Title                       | Unit | Status |
|-------------|------------------------------------|------|--------|
| EDU 211     | Subject Methodology                | 3    | C      |
| EDU 212     | Measurement and Evaluation         | 3    | C      |
| EDU 213     | Sociology of Education             | 2    | C      |
| MTH 211     | Introduction to Numerical Analysis | 3    | C      |
| STA 211     | Probability Theory I               | 4    | C      |
| GST 222     | Peace, Conflict Resolution Studies | 2    | C      |
| ENT 211     | Entrepreneurship                   | 2    | C      |

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**DIRECT ENTRY**

|     |     |                                   |   |   |
|-----|-----|-----------------------------------|---|---|
| GST | 111 | Nigerian Peoples and Culture      | 2 | C |
| GST | 112 | History and Philosophy of Science | 2 | C |

**300 LEVEL**

**FIRST SEMESTER**

| Course Code | Course Title                            | Unit | Status |
|-------------|---|------|--------|
| EDU 300     | Teaching Practice                       | 3    | C      |
| EDU 301     | Educational Administration and Planning | 2    | C      |
| EDU 302     | Educational Technology                  | 2    | C      |
| EDU 303     | Childhood Education                     | 2    | E      |
| EDU 304     | Rural Education                         | 2    | E      |
| MTH 301     | Abstract Algebra I                      | 3    | C      |
| MTH 302     | Metric Space Topology                   | 3    | C      |
| MTH 303     | Complex Analysis II                     | 3    | C      |
| MTH 304     | Elementary Differential Equation II     | 3    | C      |

|         |                        |   |   |
|---------|------------------------|---|---|
| CSC 203 | Computer Programming I | 4 | C |
|---------|------------------------|---|---|

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**SECOND SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>                      | <b>Unit</b> | <b>Status</b> |
|--------------------|--|-------------|---------------|
| EDU 311            | Educational Psychology                   | 2           | C             |
| EDU 312            | Educational Research and Data Processing | 3           | C             |
| EDU 313            | Integrated Science                       | 2           | C             |
| EDU 314            | Adolescent Psychology                    | 2           | E             |
| MTH 212            | Linear Algebra II                        | 3           | C             |
| MTH 214            | Dynamics of Rigid Body                   | 3           | C             |
| MTH 215            | Real Analysis II                         | 3           | C             |
| CSC 215            | Computer Programming II                  | 3           | C             |

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**400 LEVEL**

**FIRST SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>             | <b>Unit</b> | <b>Status</b> |
|--------------------|---------------------------------|-------------|---------------|
| EDU 400            | Students Project                | 6           | C             |
| EDU 401            | Practical Teaching              | 3           | C             |
| EDU 402            | Guidance and Counseling         | 2           | C             |
| EDU 403            | Continuous Assessment           | 2           | C             |
| MTH 401            | Ordinary Differential Equations | 3           | C             |
| MTH 402            | Modules                         | 3           | C             |
| MTH 403            | Abstract Groups                 | 3           | E             |

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**SECOND SEMESTER**

| <b>Course Code</b> | <b>Course Title</b>                           | <b>Unit</b> | <b>Status</b> |
|--------------------|---|-------------|---------------|
| EDU 411            | Organization of Primary and Secondary Schools | 2           | C             |
| EDU 413            | Comparative Education                         | 2           | C             |
| MTH 413            | System Theory                                 | 4           | C             |
| EDU 412            | Emergent Problems in Nigeria Education        | 2           | C             |
| EDU 414            | Education Law                                 | 2           | E             |
| MTH 412            | Lebesque Measure and Integration              | 3           | E             |
| MTH 415            |   | 3           | C             |

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**COURSES DESCRIPTION (100 LEVEL – 400 LEVEL)**

**MTH 101: Algebra and Trigonometry (3 Units)**

Elementary set theory subsets, union, inter –section, complement, Venn diagrams,. Advance indicial and logarithmic equations. The use of notations, equations, real numbers, integers, rational and irrational numbers mathematical inductions, equations, real sequences and methods of undermined coefficients theory of quadratic equations, binomial theorem. Complex numbers, the Arrand Diagram, Demoivre’s theorem,  $n^{\text{th}}$  roots of unit. Circular measure, trigonometric functions of angles and magnitude, addition and factor formulae.

**STA 101: Statistics for Physical Science and Engineering (3Units)**

Statistical data, their sources, collection and preliminary analysis by tables and graphs, Measure of location and dispersion of simple and grouped data exponential. Elements of probability distribution,

binomial, poisson, geometry, negative binomial distributions. Time series, demographic measures and index numbers. Estimation and tests of hypotheses of mean and variance. Contingency table, Non-parametric inference.

### **CSC 101: Introduction to Computer Science (2 Units)**

History of Computers, Functional components of computers characteristics of computers, understanding disk operating system (DOS) and its files structure, files environment working with dialogue boxes, the use of programme and file managers, menus and their uses, problems solving, flow charts, algorithms, computer programming statements, symbolic names array, subscripts expressions and control statements, data representation, the decimal system, the binary system numbers complement, introduction to basic or Fortran programme language computer application

### **PHY 101: General Physics I (Mechanics) 3Units**

Units and Dimensions: Vector algebra, Kinetics, displacement, velocity, acceleration; Rectilinear motion, Newton's laws of motion, work, energy, circular motion, Rotation, relation between equations of linear motion and of rotational motion, Conservation of angular momentum, moments of inertia. Hydrostatics, Archimedes principle, surface tension, Fluid flow and viscosity, Poiseuille's law, Elastic properties of solids.

### **MTH 111: Analytic /Co-ordinate Geometry and Vectors (3 Units)**

Rectangle Cartesian co-ordinates. Mid-point, gradient, distance between two points. Equation of a line; parallel and perpendicular lines, angles between two lines. Graphs of simple rational functions in one variable.

### **Vectors**

Geometric representation of vectors in 1-3 dimensions, components, direction cosines, assertion scalar, multiplication of vectors, linear independence, scalar and vector products of two vectors, differentiation and integration of vectors with respect to scalar.

### **MTH 112: Calculus**

Functions of real variables, graphs, limits and idea of continuity. The denvaue, as a limit of rate of change. Techniques of differentiation. Extreme curve sketching integration as an inverse of differentiation. Methods of integration, definite integrals. Application to areas and volumes.

### **MTH 113: Introduction to Mechanics (3 Units)**

Triangle and parallelogram laws of forces, resultant forces, Lamis theorem, polygon of forces. Fiction of smooth bodies, Laws of fiction, particle on force, rough planes inclined or otherwise parallel forces, moments, couples, centre of gravity, laminal of elementary shapes, joined rod, curved surfaces of core sphere and solids of elementary shapes thrust on plane surfaces, centre of pressure, pressure intensity transmission of fluid pressure. Pascal's principle of balancing columns of liquids. Kinmatics of a particle components of velocity and acceleration of a particle moving in a plane force momentum, motion, Angular momentum simple harmonic motion, elastic strings, simple pendulum sphere on a smooth surface.

### **MTH 201: Mathematical Methods (3 Units)**

Real-valued functions of a real variable. Review of differentiation and integration and their applications. Mean value theorem, Taylor series, Real-values functions of two or three variables.

Partial derivation, chain rule, extreme lagranges multipliers, increments, differential and linear approximations. Evaluation of line integrals and multiple integrals.

**Pre-Requisite MTH 112**

**MTH 202: Linear Algebra (2Units)**

Vector space over the real field. Subspace, linear independence basis and dimension, linear transformations and their representation by matrices-rank. Null space, rank of singular and non-singular transformation and matrices, Algebra of matrices and determinants. **Pre-requisite MTH 101, MTH 111.**

**MTH 203: Sets, Logic and Algebra (3 Units)**

Introduction to the language and concept of modern mathematics, Topics includes: Basic set theory, mapping relations, binary logic, methods of proofs, integral domain field Homeomorphics, numbers system, properties of integers, Rational, real and complex number, **Pre-requisite MTH 101.**

**MTH 204: Real Analysis I (3Units)**

Bounds of real numbers, convergence of sequences of numbers monotone sequence, the theorem of tested intervals, Cauchy sequences, test for convergence of series, absolute and conditional, convergence of series and rearrangements completeness of real incompleteness rational continuity and differentiability of functions. Rolles and Mean Value theorem for differentiable functions. Taylor series **Pre-requisite MTH 101, 112.**

**MTH 205: Elementary Differential Equation I (3Units)**

First order ordinary differential equations, Existence and techniqueness, second order ordinary differential equations with constant coefficient. General theory of order linear equations, Laplace transforms, solution of initial –value problems by laplace transform method. Simple treatment of partial differential equations in two independent variables. Application of ODE and PDE to Physics **Pre-requisite MTH, 112.**

**MTH 211: Introductory Numerical Analysis (3 Units)**

Solution of algebraic and transcendent equations. Curve fitting. Error analysis, interpolation and approximation. Zeroes of non-linear equations in one variable, system of linear equations. Numerical differential and integration, initial value problems in ordinary differential equations **Pre-Requisite MTH 101, 111.**

**MTH 212: Linear Algebra II (2Units)**

System of linear equation ,change of base ,equivalence and similarity; ElGenvalues and eigenvectors .minimum and characteristics polynomials of a linear transformation (Atric) Caley Hamilton theorem, Bilinear and quadratic forms, orthogonal diagonalisation, canonical forms. **Pre-requisite- MTH 101,111**

**MTH 301: Abstract Algebra (3Units)**

Groups, definition examples including permutations groups, subgroups Lagragian theorem and application. Cyclic group. Rings definition examples including z-z rings of polynorization matrices integral domain fised polynomials, ring factorization, Euclidean algorithm for polynomials (H. C. F. and L. C. M of polynomials).



**MTH 302: Metric Space Topology (3 Units)**

Sets matrices and examples. Open spheres (or balls), Open sets and neighbourhoods. Closed set interior, frontier, limit points and closure of a set. Dense subset and separable spaces, convergence in metric space, Homomorphism, continuity and compactness, connectedness **Pre-requisite – MTH 203.**

**MTH 303: Complex Analysis II (3Units)**

Laurent expansions, isolated singularities and residue theorem, calculus of residues and application to evaluation of integrals and to the summation of series. Maximum, modulus principles. Argument principles of analytic to continuation. Multiple valued functions and Riemann surfaces.

**Pre-requisite MTH 203, 204**

**MTH 304: Elementary Differential Equations II (3Units)**

Series solutions of second order linear equations, Bessel legendry and surfaces, vector differentiation and applications. Gradients, divergence and curl, vector integrate, lines surface and volume integrals, Greens stroke's and divergence theorem, Tensor products of vector spaces.

**MTH 401: Ordinary Differential Equation I (3Units)**

Sturn's separation and comparison theorems. Sonin-polya theorems; Existence; and uniqueness of solution of systems of ordinary differential equations: Theory and properties of their solution, stability and phase portraits of systems; Floquents theorem for periodic linear systems **Pre-requisite MTH 205.**

**MTH 404: General Topology (3Units)**

Topological Spaces, definition open and close sets neighbourhoods, coarser and finer topologies bases separate axioms, compactness, construction of new topological space from given ones, subspaces, quotient's spaces, continuous functions, point wise and uniform convergence **Pre-requisite MTH 302.**

**MTH 407: Partial Differential Equations (3Units)**

Theory and solutions of first order equations, second linear equations, classification, characteristics, canonical forms, Cauchy problem, Ellitic equations, Laplace's and Poisson's equations, fundamental solution of Green's functions, Poisson's formula, properties of harmonic function. Hyperbolic equation, Wave equation, retarded potential transmission line equation; Riemann method, parabolic equations. Diffusion equation singularly functions, boundary and initial value problem **Pre-requisite MTH 205.**

**MTH 412: Lebesque Measure and Integration (3Units)**

Lebseque measure, measurable and non-measurable sets, measurable functions; lebesque integral. Integration of non-negative functions; the general integration convergence theorems. **Pre-requisite MTH 215**

**MTH 414: Introductory Homotopy (3Units)**

Paths, homotopic paths, paths composition, Equivalence relation, Null homotopic. The fundamental group. Calculating the fundamental gropu. The fundamental group of (i) The circle (ii) Punctured plane (iii) Surfaces.

**MTH 418: Systems Theory (3Units)**

Mathematical theory and optimal control for system described by differential equations and subject of constraints of various types, 1a Lyapunov: Theorems solution of Lyapunov stability equation  $ATP + PA = Q$ . Controllability and observability, for differential equations, with constant coefficient. Topics in non linear oscillations.

**STA 101: Statistics for Physical Science and Engineering (3Units)**

Statistical data, their sources, collection and preliminary analysis by tables and graphs, Measure of location and dispersion of simple and grouped and graphs data exponential. Elements of probability distribution, binomial, poisson, geometry, negative binomial distributions. Time series, demographic measures and index numbers. Estimation and tests of hypotheses of mean and variance. Contingency table., Non parametric inference.

**STA 203: Statistical Inference (3Units)**

Use of the Neymann Pearson Lemma. Hypothesis testing, the power of a test Point and Interval estimation (testing and estimation of a large sample and in some standards, small sample situation) binomial, poisson, normal contingency tables Goodness – of – fit – test.

**STA 211: Probability Theory I (3Units)**

Combinatorial Analysis. Prbability models for the study of random phenomenon infinite samples spaces. Probability distribution of discrete and continuous random variables. Exceptions of moment generating functions. Chebyshev’s inequality. Bivariate marginal and conditional distributions and momentary convolution of two distributions, centre limit theorem and its uses

**STA 306: Probability Theory II (3Units)**

Brief revision of basic concepts, Probability generating functions. Univariate and Bivariate moment generating functions. Univariate characteristic functions formula various modes of convergence. Laws of large numbers and the central limits theorem using characteristics functions, random walk and Markov chains introduction to poison process.

*(3.)Sc (Ed) Physics*

**Philosophy**

The philosophy of the Department is to produce Physics teachers necessary for achieving the national goals of Physics Education in general and those of Edo State in particular.

**Objectives:**

The objectives of physics Education shall be

- (i) To provide teachers of physics that adequately equipped with knowledge and content required to teach Physics in Secondary Schools.
- (ii) To equip physics teachers with appropriate skills and pedagogies for teaching Physics
- (iii) To prepare teachers capable of teaching physics in Polytechnics and colleges of Education

**100 LEVEL****FIRST SEMESTER**

| Course Code | Course Title                        | Units | Status |
|-------------|-------------------------------------|-------|--------|
| EDU 100     | Introduction To Teaching Profession | 2     | C      |

|     |     |   |           |   |
|-----|-----|---|-----------|---|
| EDU | 101 | Historical Foundation of Education          | 2         | C |
| EDU | 102 | Developmental Psychology                    | 2         | C |
| PHY | 101 | General Physics I (Mechanics)               | 3         | C |
| PHY | 102 | General Physics I (Electricity & Magnetism) | 3         | C |
| PHY | 103 | General Physics Laboratory                  | 2         | C |
| MTH | 101 | Algebra and Trigonometry                    | 3         | C |
| CSC | 101 | Introduction to Computer Science            | 2         | C |
| GST | 101 | Use of English and Library                  | 4         | C |
| GST | 102 | Philosophy and Logic                        | 2         | C |
|     |     |   | <b>25</b> |   |

## SECOND SEMESTER

| <b>Course Code</b> | <b>Course Title</b> | <b>Units</b>                                | <b>Status</b> |   |
|--------------------|---------------------|---|---------------|---|
| EDU                | 113                 | History and Philosophy of Science Education | 2             | C |
| EDU                | 114                 | Introduction to Adult Education             | 2             | C |
| EDU                | 115                 | Introduction to Special Education           | 2             | C |
| PHY                | 103                 | General Physics Laboratory                  | 2             | C |
| PHY                | 111                 | General Physics II(Heat and Kinetic Theory) | 3             | C |
| MTH                | 112                 | Calculus                                    | 3             | C |
| PHY                | 112                 | General Modern Physics I                    | 2             | C |
| MTH                | 111                 | Vectors and Coordinate Geometry             | 3             | C |
| GST                | 111                 | Nigerian Peoples and Culture                | 2             | C |
| GST                | 112                 | History and Philosophy of Science           | 2             | C |
|                    |                     |   | <b>23</b>     |   |

## 200 LEVEL

### FIRST SEMESTER

| <b>Course Code</b> | <b>Course Title</b> | <b>Units</b>                  | <b>Status</b> |   |
|--------------------|---------------------|-------------------------------|---------------|---|
| EDU                | 201                 | Philosophy of Education       | 2             | C |
| EDU                | 202                 | Curriculum and Instruction    | 2             | C |
| PHY                | 201                 | Thermal Physics               | 3             | C |
| PHY                | 203                 | Classical Mechanics           | 2             | C |
| PHY                | 204                 | Mathematics Method in Physics | 3             | C |
| PHY                | 206                 | Waves and Optics I            | 3             | C |
| MTH                | 204                 | Real Analysis I               | 4             | C |
| ENT                | 201                 | Entrepreneurship              | 2             | C |
|                    |                     |                               | <b>21</b>     |   |

### DIRECT ENTRY

|     |     |                                  |   |   |
|-----|-----|----------------------------------|---|---|
| CSC | 101 | Introduction to Computer Science | 2 | C |
| GST | 101 | Use of English and Library       | 4 | C |
| GST | 102 | Philosophy and Logic             | 2 | C |

## SECOND SEMESTER

| <b>Course Code</b> | <b>Course Title</b> | <b>Units</b>               | <b>Status</b> |   |
|--------------------|---------------------|----------------------------|---------------|---|
| EDU                | 211                 | Subject Methodology        | 3             | C |
| EDU                | 212                 | Measurement and Evaluation | 3             | C |

|     |     |                                     |   |   |
|-----|-----|-------------------------------------|---|---|
| EDU | 213 | Sociology of Education              | 2 | C |
| PHY | 211 | Solid State Physics I               | 3 | C |
| PHY | 212 | Energy and Environment              | 2 | C |
| PHY | 213 | General Modern Physics II           | 3 | C |
| PHY | 214 | Electric Circuits and Electronics I | 3 | C |
| GST | 222 | Peace, Conflict Resolution Studies  | 2 | C |
| ENT | 211 | Entrepreneurship                    | 2 | C |

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### **DIRECT ENTRY**

|     |     |                                   |   |   |
|-----|-----|-----------------------------------|---|---|
| GST | 111 | Nigerian Peoples and Culture      | 2 | C |
| GST | 112 | History and Philosophy of Science | 2 | C |

### **300 LEVEL**

#### **FIRST SEMESTER**

| <i>Course Code</i> | <i>Course Title</i> | <i>Units</i>                            | <i>Status</i> |
|--------------------|---------------------|---|---------------|
| EDU                | 300                 | Teaching Practice                       | C             |
| EDU                | 301                 | Educational Administration and Planning | C             |
| EDU                | 302                 | Educational Technology                  | C             |
| EDU                | 303                 | Childhood Education                     | C             |
| EDU                | 304                 | Rural Education                         | E             |
| PHY                | 301                 | Classical Mechanics I                   | C             |
| PHY                | 302                 | Electromagnetism                        | C             |
| PHY                | 304                 | Statistical and Thermal Physics         | C             |
| PHY                | 305                 | Solid State Physics I                   | C             |
| PHY                | 306                 | Computational Physics I                 | C             |
| PHY                | 216                 | Experimental Physics II                 | C             |

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#### **SECOND SEMESTER**

| <i>Course Code</i> | <i>Course Title</i> | <i>Units</i>                             | <i>Status</i> |
|--------------------|---------------------|--|---------------|
| EDU                | 311                 | Educational Psychology                   | C             |
| EDU                | 312                 | Educational Research and Data Processing | C             |
| EDU                | 313                 | Integrated Science                       | C             |
| EDU                | 314                 | Adolescent Psychology                    | E             |
| PHY                | 303                 | Experimental Physics II                  | E             |
| PHY                | 307                 | Waves and Optics                         | C             |
| PHY                | 308                 | Quantum Physics                          | C             |
| PHY                | 315                 | Solid State Physics II                   | C             |

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### **400 LEVEL**

#### **FIRST SEMESTER**

| <i>Course Code</i> | <i>Course Title</i> | <i>Units</i>                 | <i>Status</i> |
|--------------------|---------------------|------------------------------|---------------|
| EDU                | 400                 | Students Project             | C             |
| EDU                | 401                 | Practical Teaching           | C             |
| EDU                | 402                 | Guidance and Counseling      | C             |
| EDU                | 403                 | Continuous Assessment        | C             |
| PHY                | 402                 | Quantum Mechanics            | C             |
| PHY                | 403                 | Electronics II               | C             |
| PHY                | 404                 | Nuclear and Particle Physics | C             |

|         |                          |           |   |
|---------|--------------------------|-----------|---|
| PHY 405 | Computational Physics    | 2         | C |
| PHY 407 | Experimental Physics III | 2         | C |
|         |                          | <b>25</b> |   |

## SECOND SEMESTER

| <i>Course Code</i> | <i>Course Title</i>                             | <i>Units</i> | <i>Status</i> |
|--------------------|---|--------------|---------------|
| EDU 411            | Organization of Primary and Secondary Schools   | 2            | C             |
| EDU 412            | Emergent Problems in Nigeria Education          | 2            | C             |
| EDU 413            | Comparative Education                           | 2            | C             |
| EDU 414            | Educational Law                                 | 2            | E             |
| PHY 413            | Modern Physics                                  | 3            | C             |
| PHY 414            | Introduction to Material Science and Metallurgy | 2            | E             |
| PHY 416            | Geographic                                      | 2            | E             |
| PHY 417            | Biophysics                                      | 2            | E             |
| PHY 419            | Introduction to Solar Energy                    | 2            | E             |
|                    |   | <b>19</b>    |               |

## COURSES DESCRIPTION (100 LEVEL – 400 LEVEL)

### **PHY 101: General Physics I (Mechanics) 3Units**

Units and Dimensions: Vector algebra, Kinetics, displacement, velocity, acceleration; Rectilinear motion, Newton's laws of motion, work, energy, circular motion, Rotation, relation between equations of linear motion and of rotational motion, Conservation of angular momentum, moments of inertia. Hydrostatics, Archimedes principle, surface tension, Fluid flow and viscosity, Poiseuille's law, Elastic properties of solids.

### **PHY 102: General Physics II ( Electricity and Magnetism) (3Units)**

Electric charges and field; conductors and insulators, charging by friction and induction; Coulomb's law, electric field and potential; capacitors and dielectrics, effect of electric current, direct current, circuits, Kirchoffs laws, magnetic field of electric current, forces and torques in magnetic field, ammeters and voltmeters, induced emf, Faraday's and Lenz's laws. Inductance and capacitance, Alternating current series circuits.

### **PHY 103: General Physics Laboratory (2Units)**

Selected experiments from different areas of Physics. This course is taken Over the first and second semesters (Practical course).

### **PHY 111: General Physics III Heat and Kinetic Theory (2Units)**

Temperature and expansion: Heat and measurement: Thermal properties of matter, Molecular theory of matter: Equations of state, heat phenomena; Transfer of heat; Laws of thermodynamics.

### **PHY 112: General Modern Physics (2Units)**

Atomic structure, blackbody radiation, photoelectric effect, line spectra the Bohr atom; Atomic spectra, X-rays, production and properties, the nuclear atom, radio-activity, nuclear fission and nuclear fusion, basic electronics semiconductors, junction diode transistors and applications (qualitative treatment).

### **PHY 201: Thermal Physics (3Units)**

The foundations of classical thermodynamics including the zeroth law of thermodynamics and the definition of thermal equilibrium, temperature; the first law, thermal and internal energies, Carrot

cycles and the second law; entropy and irreversibility, thermodynamic potentials and the Maxwell's relations, applications, Qualitative discussion of phase transition; and the laws of thermodynamics. Ideal and real gases, Elementary Kinetic theory including Boltzmann counting, Maxwell Boltzmann distribution.

**PHY 203: Experimental Physics I (2Units)**

The laboratory course consists of a group of experiments drawn from diverse areas of physics (Optics, Electromagnetism, Mechanics, Modern Physics etc) It is accompanied by seminar studies of standard experimental techniques and the analysis of famous and challenging experiments.

**Pre-requisite PHY 103.**

**PHY 211: Solid state Physics (3Units)**

Forces and bonds in solids, Crystal structure, diffraction studies of solids, Bragg's condition, X-ray scattering, methods of X-ray diffraction, reciprocal lattice, crystal binding and mechanical properties, ionic, covalent and metal crystals. Defects in crystals effect on physical properties, lattice vibrations, elastic waves in cubic crystals, thermal properties, of solids heat capacity, thermal conductivity **Pre-requisite Phy 101, 102.**

**PHY 212: Energy and Environment (2Units)**

Energy and Power, principles, demands and outlook, transformation, its cost. Thermal pollution; electrical energy from fossil fuels, hydroelectric generation, principles and problems. Costs, capacity, storage, reserves, efficiency environmental effects. Electrical energy from nuclear reactors. Energy in the future, breeder reactors, fusion power, solar power, geothermal power tidal power etc. prospects and problems. Course lectures are supplemented with excursions and seminars **Pre-requisite PHY 112.**

**PHY 213: General Modern Physics II (3Units)**

Special relativity, defects in Newtonian Mechanics, the speed of light, the Lorentz transformation, transformation of velocities, Experimental basis of quantum theory, Black body radiation, electrons and quanta. Bohr's theory of atomic structure, De Broglie hypothesis, the uncertainty principle. The Schrodinger wave equation and its solution for simple systems such particle in an infinite potential well. Elements of Atomic Physics.

**Pre-requisite 102, 112**

**PHY 214: Introduction to Mathematical Methods in Physics II (3Units)**

Continuation of Physics 204. Tests for convergence of (real) infinite series. Differential equations, second ordinary differential equations with constant coefficients. General theory of second order differential equations, inhomogeneous equations. Introduction to theory of complex functions, . Cauchy-Riemann equations, Cauchy theorem, Cauchy integral formulae, and their applications. Elements of vector calculus, grad of scalar fields, div and curl of vector fields, and their applications.

**Pre-requisite MTH 101, 112**

**PHY 216: Electric Circuits and Electronics I (3Units)**

D. C. Circuits Kirchoff's laws, source of emf and current, network analysis and circuits: Inductance, capacitance, the transformer, sinusoidal wave-forms, rms and peak values, power impedance and admittance, series RLC-circuit, Q-factor, resonance, network analysis and circuit theorems, filters. Electronics, semi-conductors, the pn-junction, field effect transistors, bipolar transistors, characteristics, and equivalent circuits, amplifiers, feedback. **Pre-requisite PHY 102, 112**

**PHY 301: Methods of Mathematical Physics I (3Units)**

Special functions, gamma function, beta function, Dirac  $\delta$ -function, their characteristics properties and applications. Laplace transformation and applications. Vector and tensor analysis Singularities of complex functions. Laurent series expansion and its applications. Residue theorem and its applications. Introduction to partial differential equations, their types, methods of solution and applications in Mathematical Physics **Pre-requisite PHY 204, 214.**

**PHY 302: Electromagnetism (3Units)**

Electrostatics and Magnetostatics, LAPLACE EQUATION AND BOUNDARY VALUE PROBLEMS, Multiple expansions, dielectric and magnetic materials, Faraday's law, A. C. circuits, Maxwell's equations, Lorentz covariance and the special theory of relativity. **Pre-requisite PHY 102**

**PHY 304: Statistical and Thermal Physics (3Units)**

Basic concept of statistical mechanics, microscopic systems microcanonical and canonical ensembles, condensed states, phase transformations, quantum distributions, fermions and bosons. Elementary Kinetic theory of transport processes, fluctuation phenomena and their applications. **Pre-requisite PHY 201, 213**

**PHY 305: Solid State Physics II (3Units)**

Free electron model of metals, Fermi energy, electronic heat capacity. Electronic motion in a periodic structure, band models of solids, tight binding approximation, classification of solids; metals, insulators, semi-conductors and semi-metals. Holes and electrons, effective mass of an electron and of a hole, Hall effect in metals and semi-conductors. Transport phenomena in metals, dielectric and optical properties of materials, contact phenomena, thermoelectric and galvanomagnetic phenomena. Fundamentals of superconductivity. Magnetic properties of solids, paramagnetism, ferromagnetism, antiferro-magnetism and ferrimagnetism. **Pre-requisite PHY 211**

**PHY 306: Computational Physics I (2Units)**

Calculus of errors, mathematics of observations and their treatment, formulation of physical problems, mathematical solutions, examples drawn from order of magnitude calculation of electric and magnetic fields of charge and current distributions, numerical calculation of orbits, etc curve fitting, approximation of functions interpolation and extrapolation methods, applications to numerical differentiation and numerical integration.

**PHY 308: Quantum Physics (3Units)**

Wave-particle duality, the fundamental principles of the Quantum Physics and their applications. Wave functions and operators, their representation, their interpretation and their characteristic properties, probability, expectation values. Energy levels in potential wells, reflection and transmission of particle beams by potential step and barriers. The quantum mechanics of the simple harmonic oscillator. Introduction to atomic and molecular structure and spectra.

**Pre-requisite PHY 213****PHY 402: Quantum Mechanics I (3Units)**

The formulation of quantum **mechanics** in terms of state vectors and linear operators: Their representation in functional and matrix forms, configuration and momentum spaces. Postulates of Quantum mechanics. Eigenfunctions and eigenvalues of operators. Commutator of operators, compatible and complementary operators. Deduction of operators and the Schrodinger wave equations

for simple systems. Dirac notation, probability interpretation of wave functions, probability current. Pictures of Quantum Mechanics. Schrodinger picture, Heisenberg picture, application of commutators of operators, time evolution of operators. Illustrative solutions of the Schrodinger wave equation for simple one-dimensional systems: asymmetrical infinite potential well, stationary states, scattering from potential step, potential barrier and potential well. **Pre-requisite PHY 301, 308**

**PHY 403: Electronics II (3Units)**

Introduction to transistors, transistor construction and operation, Parameters, different configurations, common base, common emitters, transistor operators, biasing and stabilization, multistage amplifiers, capacitive and transformer coupling, frequency response, feedback concept, general characteristics of feedback amplifiers, high frequency limitation, transistor noise, integrated circuits (Ics). Electronic systems. Physics of semi-conductors, application of selected semiconductor devices, junctions and bipolar transistor physics, fundamentals of digital electronic NOR, IAND gates, Hardware building programming principles. Telecommunication theory and devices, theory of amplification **Pre-requisites PHY 216, 309.**

**PHY 404: Nuclear and Particle Physics I (3Units)**

Nuclear structure, properties, nuclear size, nuclear masses, nuclear forces, nuclear-unclear scattering the deuteron. Nuclear models, Radioactive decay, Alpha, beta, gamma, decays nuclear reactions.

**PHY 405: Computational Physics II (2Units)**

Use of numerical methods in Physics, various methods of numerical integration, differentiation, numerical solution of some differential equations in Physics, statistical analysis of experimental data **Pre-requisite PHY 306.**

**PHY 407: Experimental Physics III (2Units)**

This course involves performing advanced experiments in selected areas of physics especially in atomic and nuclear physics. The course may also involve mandatory weekly demonstration in the 100 level and foundation programme laboratories **Pre-requisite PHY 303.**

**PHY 413: Modern Optics (3Units)**

Review of Physical and geometrical optics, thin films holography, fibre optics of solids propagation of light in isotopic solids, electro-optics and magnetic-optic effect, coherence and interference, interaction of light with matter, Raman and Rayleigh scattering. The laser and its applications **Pre-requisite PHY 307.**

**PHY 414: Introduction to Material Science and Metallurgy (2Units)**

Brief outline of role of materials science in engineering, crystal structure and diffraction, imperfection in solids and mechanical properties of solids. Equilibrium diagrams and phase transformations in solids. Heat treatment to influence micro-structures. Brief introduction to polymers, ceramics and glasses **Pre-requisite PHY 211.**

**PHY 416: General Geophysics (2Units)**

A brief survey of some aspects of pure geophysics including the description and origin of the earth's gravity and magnetic field, seismological behaviour of the earth applied geophysics, the resistivity, magnetic and seismic methods of prospecting are given in details, special emphasis is given to problems of the seismic methods in relation to the oil industry.



**PHY 417: Biophysics (2 Units)**

Motion of molecules in solution, circulation; diffusion in biology membrane transport, stability, Radiation biophysics, absorption and emission of light by molecules; molecular biophysics, research techniques in biophysics.

**PHY 419: Solar Energy Physics (2 Units)**

The course surveys elements of solar physics and various energy sources and their projected use with particular emphasis on solar energy sources, solar energy utilization with the associated electrons and technology, conversion of solar radiation to produce a usable output.

**B.Ed (Early Childhood Education)****100 LEVEL****First Semester**

| <b>Course code</b> | <b>Course Title</b>  | <b>Unit</b> | <b>Status</b> |
|--------------------|--|-------------|---------------|
| GST 101            | Use of English and Library                                       | 4           | C             |
| GST 102            | Philosophy and Logic   | 2           | C             |
| CSC 101            | Introduction to Computer Science                                 | 2           | C             |
| EDU 100            | Introduction to Teaching Professional                            | 2           | C             |
| EDU 101            | History of Education   | 2           | C             |
| EDU 102            | Developmental Psychology   | 2           | C             |
| ECH 101            | Origin and Development of Nursery<br>Primary, Education          | 2           | C             |
| ECH 103            | Nursery/Primary Education Curriculum                             | 4           | C             |
| ECH 104            | Reading Process: Theoretical Skills<br>Nursery/Primary Education | 3           | C             |
| ECH 105            | Health Education for Pre-Primary Education                       | 3           | C             |
| ECH 106            | Organization of Nursery/Primary Education                        | 2           | C             |
|                    |  | <b>18</b>   |               |

**Second Semester**

| <b>Course code</b> | <b>Course Title</b>  | <b>Unit</b> | <b>Status</b> |
|--------------------|--|-------------|---------------|
| GST 111            | Nigerian Peoples and Culture                                     | 2           | C             |
| GST 112            | History & Philosophy of science                                  | 2           | C             |
| EDU 113            | Introduction to science and T. Education                         | 2           | C             |
| EDU 114            | Introduction to Adult Education                                  | 2           | E             |
| EDU 115            | Introduction to Special Education                                | 2           | E             |
| ECH 107            | Language Development at the Nursery/<br>Primary Education levels | 2           | C             |
| ECH 108            | Pre-School Education in Traditional<br>African Societies         | 2           | C             |
| ECH 109            | Curriculum Integration in Nursery<br>Primary Education           | 2           | C             |
| ECH 111            | National Policy on Education and<br>Comparative Education        | 2           | C             |
| ECH 112            | First Aid and Safety Education                                   | 2           | C             |
|                    |  | <b>20</b>   |               |

**200 LEVEL****First Semester**

| <b>Course code</b> | <b>Course Title</b>  | <b>Unit</b> | <b>Status</b> |
|--------------------|--|-------------|---------------|
| EDU 201            | Philosophy of Education  | 2           | C             |
| EDU 202            | Curriculum & Instruction                                       | 2           | C             |
| ECH 201            | Elementary Mathematics   | 2           | C             |
| ECH 202            | Introduction to Counseling Tniques                             | 2           | C             |
| ECH 203            | Elementary Physical Education                                  | 2           | C             |
| ECH 204            | General Principles of Teaching Nursery<br>Primary School Pupil | 2           | C             |
| ECH 205            | Instructional Tniques  | 2           | C             |
| ENT 201            | Entrepreneurship   | 2           | C             |

**DIRECT ENTRY**

|         |                                  |   |   |
|---------|----------------------------------|---|---|
| CSC 101 | Introduction to Computer Science | 2 | C |
| GST 101 | Use of English and Library       | 4 | C |
| GST 102 | Philosophy and Logic             | 2 | C |

**Second Semester**

| <b>Course code</b> | <b>Course Title</b>                                       | <b>Unit</b> | <b>Status</b> |
|--------------------|---|-------------|---------------|
| EDU 211            | Subject Methodology                                       | 3           | C             |
| EDU 212            | Measurement & Evaluation                                  | 3           | C             |
| EDU 213            | Sociology of Education                                    | 2           | C             |
| ECH 206            | Planning and Financing Nursery<br>Primary Education       | 2           | C             |
| ECH 207            | Children's Literature-Readability Index                   | 2           | C             |
| ECH 208            | Identification of Exceptional and<br>Maladjusted Children | 2           | C             |
| ECH 209            | Recreational Education                                    | 2           | C             |
| ECH 210            | Principles of Extra Curricular Actual                     | 2           | C             |
| ECH 211            | First Aids and Safety Education                           | 2           | C             |
| ECH 212            | Concept of Learning                                       | 3           | C             |
| GST 222            | Peace & Conflict Resolution Studies                       | 2           | C             |
| ENT 211            | Entrepreneurship  | 2           | C             |
|                    |   | <b>25</b>   |               |

**DIRECT ENTRY**

|         |                                   |   |   |
|---------|-----------------------------------|---|---|
| GST 111 | Nigerian Peoples and Culture      | 2 | C |
| GST 112 | History and Philosophy of Science | 2 | C |

**300 LEVEL****First Semester**

| <b>Course code</b> | <b>Course Title</b>                      | <b>Unit</b> | <b>Status</b> |
|--------------------|--|-------------|---------------|
| EDU 300            | Teaching Practice                        | 3           | C             |
| EDU 301            | Education Administration & planning      | 2           | C             |
| EDU 302            | Educational Technology                   | 2           | C             |
| ECH 301            | Elementary School Agriculture            | 3           | C             |
| ECH 302            | Introduction to Home Economics           | 2           | C             |
| ECH 303            | Problems of Nursery/Primary Education in |             |               |

|         |   |           |   |
|---------|---|-----------|---|
|         | Nigeria   | 2         | C |
| ECH 304 | Curriculum, Seminar and Practical                             | 3         | C |
| ECH 305 | Principles of Natural Science                                 | 2         | C |
| ECH 306 | Evaluation and Section of Tests in<br>Nursery/Primary Schools | 3         | C |
|         |   | <b>24</b> |   |

### Second Semester

| Course code | Course Title                            | Unit      | Status |
|-------------|---|-----------|--------|
| EDU 311     | Educational Psychology                  | 2         | C      |
| EDU 312     | Research Method and Data Processing     | 3         | C      |
| EDU 313     | Integrated Science                      | 2         | C      |
| EDU 314     | Adolescent Psychology                   | 2         | E      |
| EDU 307     | Social Studies – Primary/ Nursery Level | 2         | C      |
| ECH 308     | Moral and Religious Instruction         | 2         | C      |
| ECH 309     | Family Health                           | 2         | C      |
| ECH 313     | Special Education                       | 2         | E      |
| ECH 315     | Drug and Alcoholism                     | 2         | C      |
|             |   | <b>19</b> |        |

### 400 LEVEL

#### First Semester

| Course code | Course Title   | Unit      | Status |
|-------------|--|-----------|--------|
| EDU 400     | Student Project  | 6         | C      |
| EDU 401     | Practical Teaching   | 3         | C      |
| EDU 402     | Guidance & Counseling  | 2         | C      |
| EDU 403     | Continuous Assessment  | 2         | C      |
| ECH 401     | Learning Theory/Childhood Education                                    | 2         | C      |
| ECH 402     | Nutritional Problems of Nursery/<br>Primary Education                  | 3         | C      |
| ECH 403     | School Health Programme  | 3         | C      |
| ECH 404     | Administration of Nursery/Primary<br>Education                         | 2         | C      |
| ECH 405     | Reading Problems in the Primary in Nigeria                             | 2         | C      |
| ECH 406     | Planning and Implementing Reading<br>Programme for the gifted children | 3         | C      |
|             |  | <b>28</b> |        |

#### Second Semester

| Course code | Course Title  | Unit | Status |
|-------------|---|------|--------|
| EDU 411     | Organization of Primary & Sec. Schools                      | 2    | C      |
| EDU 412     | Emergent Problems of Nigeria Education                      | 2    | C      |
| EDU 413     | Comparative Education                                       | 2    | C      |
| EDU 414     | Education Law   | 2    | E      |
| ECH 407     | Pre-Primary and Primary Physical Education II               | 3    | C      |
| ECH 408     | School Records  |      |        |
| ECH 409     | Pre-School and Primary Projects in Nigeria and<br>Elsewhere | 2    | C      |
| ECH 410     | Communicable Diseases among Children                        | 2    | C      |
| ECH 411     | Organization and Admin. of School Sports                    | 2    | C      |

**Course Description****100 Level**

ECH 101:

Historical development of Nursery and Primary Education In Nigeria.

ECH 102:

Philosophical basis of nursery and Primary Education in Nigeria.

ECH 103:

A critique of current Nursery and Primary Curriculum in Mathematics, language, social studies, Physical Education methodology, specific to these curricular areas will be explored.

ECH 104:

The course explores the psychological, constitutional and maturational concepts underlying the reading process and traces the development of reading and reading skills.

ECH 105:

The course covers the broad areas of health and nutrition for Pre and Primary Education children.

ECH 106:

Detailed procedure in the organization of Nursery/Primary school, and examination of the role of government, Federal State and local councils, Education law and school management, continuous analysis of UPE in Nigeria, major local and international report on child care and children education and other implication for Nigeria.

ECH 107:

The aim for the programme is to introduce the student to the basic principles in the field of visual and audition, perception, the major language procedures of listening, doing and saying the direct method of language development.

ECH 108:

The nature of the African family system, pregnancy and the role of the child, child rearing practices. Acquisition of attitude and skills in traditional education, the impact of the social environment, material teaching style, character and personality development, purposes and objective of traditional education.

**200 Level**

ECH: 201:

Introduction to the curriculum content and instructional strategies of pre-primary and primary school mathematics.

ECH: 202:

Introduction of counseling needs of primary school pupils and applied to Nigeria.

ECH 203:

Introduction to children game, emphasis should be on games used for teaching subjects like Mathematics, Science, Social Studies and Religious to children.

ECH 204:

Nursery and Primary methods to teaching social studies science, music, mathematics, cultural studies, and modern teaching methods application to all primary subjects.

ECH 205:

Students will demonstrate competency in the development of lesson plan units, and lesson notes. Competences will also be demonstrated on the use of questioning stimulus variations and classroom management, students will teach lessons to peers and will be taped, this course will be taken during the semester proceeding student teaching practice.

ECH 206:

Costing of education, data collection for educational planning, staffing of school, training and retraining programmes variables affecting planning of Nursery/Primary school, number of children, space accommodation resources staffing certification, etc. structuring nursery/primary school within the overall national education system.

ECH 207:

Literature of children in the genres of picture books, traditional stories, and modern fiction poetry plays biography and general nonfiction will be examined with particular emphasis on the nature and use of narrative, students will explore children's literature collections in local public libraries and will consider the books appropriate for children's development and the literary quality.

ECH 208:

The course presents an overview of childhood and adolescent maladjustment. Major areas to be covered including concepts of normality and abnormality, symptomatology diagnosis, theories of causality well as techniques of intervention which are useful in treating or education the continually handicapped child.

ECH 209:

This course exposes the students to effective use of leisure, recreational facilities available to the society, types of recreation, and its implication to health education.

### **300 LEVEL**

#### **FIRST SEMESTER**

ECH 301:

Introduction to elementary agriculture methods of farming in the local communities and implements used.

ECH 302:

Introduction to elementary home economics, this includes home management nutrition, dress-making and cooking methods.

ECH 303:

Problem facing the nursery/primary schools in Nigeria organization, financial, Administrative and proprietorship problems, the teaching procedures at the nursery' level, ratio of teacher to pupils, sitting and structures of the classrooms and other features.

ECH 304:

The seminar aspect of this course will give attention to curriculum theory in a general framework appropriate to the nursery-primary school, the course will expose the student to the dynamic of interaction teaching strategies current curriculum material and used of communities resources.

ECH 307:

This expose the students to readability problem, various types of readability formula, text books selection, examination of research work already done in this area in Nigeria.

ECH 308:

This course is designed to develop in the student ability to read music in two clefs discern keep, teach musical distension and understand basic rhythmic structures.

ECH 309:

This is designed to familiarize the students with the basic factors that affect human health heredity, environment and the very way of living home accidents and hoe to prevent them.

#### **400 LEVEL FIRST SEMESTER**

ECH 400

Students may participate in an individuals or group project under the director of a member of the faculty department.

ECH 401:

The course will examine the major learning theories, faculty psychology, behaviourism, experimentation, gestalt, psychology and perceptual psychology, remembering and forgetting, transfer of learning young children's learning style and methods and material used in early childhood education of role or parents.

ECH 402:

The Students are exposed to the basic nutritional requirement of children problems of poor nutrition, value of balance diet, role of poverty and ignorance in balance diet.

ECH 403:

This exposes the students to the relationships between the school and home, school healthful living health services and health practices.

ECH 404:

This exposes the students to the major theories of administration relationship between classroom teacher and the head teacher and to the ministry.

ECH 405:

The intent of this course is to sensitize the students to the issue of problems of reading the Nursery/Primary school level. The course will focus on courses of reading problems teaching strategies, diagnostic tools and study skills, and related research will be addressed.

ECH 406:

The students are exposed to the categories of student sporting the gifted children and programmes for the gifted.

ECH 408:

The intent is to expose the students to school records that are essential in the school system, attendance register, record and scheme of work, visitor's book, log book time book etc and their uses.

ECH 409:

An examination of the pre-school and primary education projects in Nigeria, USA, UK etc, the Ife six-year primary school project, the project selection criteria, their relevance to education practices.

ECH410:

Communicable diseases that affect the children in Nigeria examine the major ones, their symptoms and control measure EPI in Nigeria.

## SECOND SEMESTER

ECH 411:

To expose the students to the procedures of sport organization intra-mural and extramural organization, financing of sport-ways and means.

## SYNOPSIS OF COURSES

EDU 100:

The course is designed to introduce to the students the concept of teaching and teaching profession; the meaning, roles and qualities of an effective teacher. The role of a teacher in classroom management, contemporary society.

EDU 111:

The objectives can be identified in the areas of knowledge  
Knowledge: To encourage the understanding of the evolving social and physical environment. To acquire basic facts and information about our environment.  
Skills of observation, data collection, analysis and inference which are essential to the forming of sound judgment.  
Attitudes and values: developing positive attitudes of togetherness comradeship and co-operation, the inculcation of values of honesty, integrity, hard work, fairness and justice.

EDU 113: 2 Units.

Introduction to the Philosophy of Science and Technology Education

The course is designed to expose the students to:

- (i) The history of science and the contributions of the early philosophers of Science to the growth of science and technology;
- (ii) The meaning of science and technology and

- (iii) Laboratory and science instructions.

#### Course Contents

- (1) Emergence of Science and Technology
- (2) The concept of Science of Technology.  
Objectives of science teaching and processes
- (3) Teaching and learning strategies
- (4) Laboratory and science instruction.
  - Meaning and purpose of Science Laboratory
  - Laboratory skills and evaluation of science practicals
  - Questions and questioning in science instruction.

#### Evaluation Method

- (1) Mid Semester test
- (2) Assignment
- (3) End of Semester Examination

#### EDU 114: 2 Units.

##### Introduction to Adult Education

Historical and Philosophical foundations of Adult education in Nigeria. The Concept and objectives of adult educations Relevance of adult literacy programme in educationally backward society. Adult education and community development principles involved in administration/management of adult literacy Programmes. A Critical appraisal of adult literacy programmes in Nigeria.

#### Course Content

1. The concept of Adult Education
2. The Nature and Scope of Adult Education
3. The Philosophy and objectives of Adult Education
4. Literacy in Adult Education
5. Psychology and Adult
6. Instructional Techniques in Adult Education Programmes.
7. The Administration and Management of Adult Education
8. Adult Education and Community Development

#### EDU 115:

The scope and definitions of Special Education with special reference to the history. Importance of special Education to the classroom teacher. Identification and characteristics of special students in the class with emphasis on their causes, preventions and educational implications. Mental retardation, Visual and Hearing Impairment, leaving disability, Giftedness, etc.

#### EDU 202:

This course is designed to acquaint students with the knowledge of curriculum theory and development. It provides students with information about the processes of stages in development and the various philosophical concepts or ideas of the curriculum. It also provides students with information about curriculum designs, evolution of Nigerian curriculum and curriculum evaluation.

#### EDU 211:



A course Objectives: The course is designed to acquaint students with

- (i) Developments in their subject area
- (ii) Various techniques available for teaching in his/her subject area
- (iii) Development of unit lesson plan
- (iv) Lesson preparation and delivery
- (v) Procedures for evaluating lesson delivery in the classroom

EDU 302:

The course is designed to acquaint students with

- (i) The concept of educational technology;
- (ii) Its, relevance in the teaching and learning; process types and uses of educational media;
- (iii) Types and uses of educational media;
- (iv) Skills in the development of improved materials;
- (v) Basic skills in micro-teaching.

EUD 303:

The course examine the background of early childhood education. The nature and needs of children and their implication for early childhood education. Curriculum issues in early childhood education. Effective administration and management of early childhood education.

EDU 313:

The course is designed to

1. Introduce students to science and history of science and its relevance to classroom teaching
2. To conceptualize science as a whole
- 3.

EDU 412:

The Course is designed to

- (i) Acquaint students with issue in the national policy on education.
- (ii) Give students an appreciation of contemporary problems affection in Nigeria.
- (iii) Help students appreciate issues that have agitated the minds of the public about education in Nigeria in recent times.

## **B.A (Ed) English**

### **PHILOSOPHY OF ENGLISH EDUCATION**

To produce highly qualified teachers of English who should be able to teach various aspects of English studies to students at the secondary school level. This product should have adequate knowledge of the syntax phonology, and semantics, of the English language.

To produce highly qualified graduate teachers who should be able to teach different genres of literature to students who study literature at the secondary school level.

### **OBJECTIVES**

1. To produce graduates who can teach English Language and Literature in English at the Senior Secondary School and Tertiary Institutions.
2. To equip graduates with relevant academic background to pursue graduate studies in Education.

3. To produce graduates who can fit into the administrative cadre in public and private organizations.

### **Admission Requirement (UME Candidates)**

Candidates must possess five credit passes at not more than two sittings at the SSCE/NECO or its equivalent. The said credits must include English Language and Literature in English. Candidate must also have a minimum of Pass in Mathematics.

### **Direct Entry Candidates**

In addition to the requirements for UME candidates listed above, candidates must possess at least merit passes in the relevant NCE or Diploma or its equivalent. A credit pass in General English at the NCE or Diploma is used in lieu of such deficiency at the O'level.

## **COURSES SYNOPSES**

### **100 LEVEL**

#### **ELS 101: Introduction to African Literature**

This is an introduction to the major genres and authors as well as themes and the issues of language forms in African Literature.

#### **ELS 102: Introduction to Poetry**

An introduction course on the nature and characteristics of poetry. Through selected poems, the student is guided to acquire the tools and techniques of literary analysis.

#### **ELS 103/113: English Language 1 & 2**

The two courses are designed to consecutively explore, in two semesters, the salient features of English grammatical structure in fairly practical ways. Particular attention is such aspects as basic sentence, phrase structure, clause types and inter-sentential relations, among others. The aim is to improve the students proficiency in English by indirectly highlighting their minds in difficulty and helping sharpen their senses of grammatical correctness, vis-à-vis communicative effectiveness.

#### **ELS 104: Introduction to Drama and Theatre**

All introductory courses on the nature, form and characteristics of drama and theatre. Students are guided to acquire the tools and techniques of drama analysis through selected plays.

#### **ELS 111: Basic English Composition**

Students are introduced to the rudiments and principles of English composition and are sensitized to textual variation, meaning, structure and style.

#### **ELS 112: Introduction to Fiction**

This course introduces students to literary language and the organizing principles or techniques of fiction through selected start stories and novels.

#### **ELS 113: English Language II (Same description as ELS 103 above)**

#### **ELS 114: Introduction to General Phonetics**

The aim of this course is to introduce students to the principles of phonetic description and taxonomy. Illustrated by practical examples and language laboratory exercise from a variety of language.

**CFA 101: Introduction to Computers (Same as CSC 101)**

**200 LEVEL**

**ELS 201: Survey of English Literature**

The course spans the period from Anglo-Saxon invasion to the Norman Conquest. The Emphasis is on literary types and sub-types and stress movements, themes and major authors.

**ELS 202: Varieties of English**

The course studies the ways in which English may be adopted to particular circumstances and purpose – journalism, bureaucracy, science and technology, public speaking, ordinary conversation, etc.

**ELS 203: Advanced English Syntax**

This course provides an in-depth study of the structure of English with reference to a given model (traditional, structure transformation generative) or combination of models.

**ELS 204: Introduction to Oral Literature**

This course introduces the students to the nature and characteristic feature of African oral Literature. It attempts a definition and classification of the various forms and genres of African Oral Literature from their communities; and preliminary analysis of texts will be attempted.

**ELS 205: Semantics**

Concentrates on sense properties and sense relations, problem of word, sentence meaning, semantic markedness, etc. The course is situated within the general framework of linguistic semantics.

**ELS 211: Neo-Classical Literature**

The course covers the period from the restoration to the end of the Neo-Classical Age and emphasizes convention and Realism.

**ELS 212: Spoken English**

This course concentrates on classroom language laboratory exercise on conventional English, using phonology materials (e.g tapes, record, video films, etc) to enhance students' spoken English.

**ELS 214: Survey of American Literature**

A select of American imaginative, historical and political writing from the colonial times to the present. The primary focus is on the development of an indigenous literature. The course also explores the political and other forces that influenced or were influenced by this literature.

**ELS 217: History of the English Language**

A diachronic study of the development of the English Language from Old English to its present-day status as a world language.

**300 LEVEL**

**ELS 301: Romantic and Victorian Literature**

A study of the Romantic and Victorian period of English Literature with emphasis on representative authors and dominant literary features of the periods.

**ELS 303: African Drama (Pre-requisite: 104)**

A study of the origin and development of written dramatic works in Africa. The course demonstrates how African writers have responded through theatre to their cultural, social and political situation. The course concentrates primarily on a close study of the works of the major dramatists in the various regions of the continents.

**ELS 304: Advanced Prose Composition (Pre-requisite: ELS 111)**

This course deals more with specialized composition writing than the essay, e.g reports, long Essay, Minutes of Meeting, various types of letter, invitation, public announcements, speech writing, etc. Attention is paid to correct language use and other technical matter connected with these kinds of writing.

**ELS 305: African Poetry (Pre-requisites ELS 102)**

A study of the origin and development of written poetry in various parts of Africa. The pioneer poets are studied with a view to showing how their emphasis is given to the work of the major poets in East, West and South Africa.

**ELS 306: English Language in Nigeria**

The course is designed to study the history of English in Nigeria, the consequent emergence of virile local varieties and change, leading to the distinctive properties of some Nigerian Languages and how these may affect performance in Standard English.

**ELS 311: Modern English Literature**

A study of Twentieth-Century English Literature, with emphasis on representative authors and dominant literary features of the period.

**ELS 312: African Fiction (Pre-requisite: 112)**

A study of novels by African (and expatriate) authors dealing with African themes, life and experience. The course covers the major regions of the continents, the representative novelists of each region and their work.

**ELS 313: Phonology of English (Pre-requisite: ELS 114)**

This is a course in which the details of the sound of a language are studied, thus making it possible to distinguish one language from another. The study of the distinctive sounds of English includes a survey of the prosodic and generation theories of English phonology.

**ELS 401: Studies in Fiction**

An intensive study of the novel and the short story as forms of literary expression, emphasis is on close textual analysis of major novels and short stories written or translated into English. Works are selected in such a way to reflect the landmarks in the development of these genres of fiction. Students are exposed to the major theories of the novel and to the different approaches in the criticism of fiction.

**ELS 404: New Trend in Syntax (Pre-requisite: ELS 203)**

The course examines more recent developments in syntax

**ELS 405: Pragmatics (Pre-requisite: ELS 205)**

This course focuses on utterance meaning as distinct from sentence meaning and on the socio-cultural and linguistic rules that determine correct interpretation of terms in the real world.

**ELS 406: Shakespeare**

A survey of Shakespeare, emphasizing contemporary critical approaches.

**ELS 407: Contemporary African Authors**

This course offers a detailed study of one or more twentieth-century African authors.

**ELS 411: Stylistics**

A course emphasizing the usefulness of the theories and methods of linguistics in the appreciation of literary texts. Carefully selected literary texts are analyzed to illustrate how messages are organized to convey the unique personal vision of their authors. Levels of linguistics patterns are identified and described as students are encouraged to be conscious of the mutual interaction between linguistic description and critical interpretation which constitutes the stylistics bridge.

**ELS 412: Studies in Drama**

An intensive study on major dramatic works in English or translated into English. Texts which are adjudged to be representative of the major landmark in dramatic literature (from Aechylus to the present) are studied. Emphasis is also placed on the critical theory of dramatic literature.

**ELS 415: Modern Authors**

An in-depth study of one or more twentieth-century authors (English Continental or American)

**ELS 416: Psycholinguistics**

This course presents the Psycholinguistic account of language and the relationship between languages and mind. Topics covered include: language acquisition and language learning, language thinking and cognition, language and the brain, language localization, linguistic performance behaviour, production and comprehension, language impairment.

**ENGLISH EDUCATION PROGRAMME**

**100 LEVEL**

**First Semester**

| <b>Course Code</b> | <b>Course Title</b>                 | <b>Units</b> | <b>Status</b> |
|--------------------|-------------------------------------|--------------|---------------|
| EDU 100            | Introduction to Teaching Profession | 2            | C             |
| EDU 101            | History of Education                | 2            | C             |
| EDU 102            | Development Psychology              | 2            | C             |
| ELS 101            | Introduction to African Literature  | 3            | C             |
| ELS 102            | Introduction to Poetry              | 3            | C             |
| ELS 103            | English Language I                  | 3            | C             |
| ELS 104            | Introduction to Drama and Theatre   | 3            | C             |
| GST 101            | Use of English and Library          | 4            | C             |
| GST 102            | Philosophy and Logic                | 2            | C             |
| CFA 101            | Introduction to Computer Science    | 2            | C             |

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## Second Semester

| <b>Course Code</b> | <b>Course Title</b>                     | <b>Units</b> | <b>Status</b> |
|--------------------|---|--------------|---------------|
| EDU 112            | Introduction to Language Education      | 2            | C             |
| ELS 111            | Basic English Grammar and Composition   | 3            | C             |
| ELS 112            | Introduction to Fiction                 | 3            | C             |
| ELS 113            | English Language II                     | 3            | C             |
| ELS 114            | Theatre Workshop (Including Children's) | 3            | C             |
| GST 111            | Nigerian People and Culture             | 2            | C             |
| GST 112            | History and Philosophy of Science       | 2            | C             |
|                    |   | <b>18</b>    |               |
| EDU 114            | Introduction to Adult Education         | 2            | E             |
| EDU 115            | Introduction to Special Education       | 2            | E             |

## 200 LEVEL

### First Semester

| <b>Course Code</b> | <b>Course Title</b>                               | <b>Units</b> | <b>Status</b> |
|--------------------|---|--------------|---------------|
| EDU 201            | Philosophy of Education                           | 2            | C             |
| EDU 202            | Curriculum and Instruction                        | 2            | C             |
| ELS 203            | Advanced English Syntax I                         | 3            | C             |
| ELS 205            | Introduction to General Phonetic and<br>Phonology | 3            | C             |
| MTH 200            | Introduction to Computer                          | 3            | C             |
| ENT 201            | Entrepreneur I                                    |              |               |

### DIRECT ENTRY

|         |                                  |           |   |
|---------|----------------------------------|-----------|---|
| CSC 101 | Introduction to Computer Science | 2         | C |
| GST 101 | Use of English and Library       | 4         | C |
| GST 102 | Philosophy and Logic             | 2         | C |
|         |                                  | <b>13</b> |   |

## Second Semester

| <b>Course Code</b> | <b>Course Title</b>        | <b>Units</b> | <b>Status</b> |
|--------------------|----------------------------|--------------|---------------|
| EDU 211            | Language Methodology       | 2            | C             |
| EDU 212            | Measurement and Evaluation | 3            | C             |
| EDU 213            | Sociology of Education     | 2            | C             |
| EDU 214            | Literature Method          | 2            | C             |

|     |     |  |           |   |
|-----|-----|--|-----------|---|
| ELS | 211 | English Literature: Neo-Classical Period | 3         | C |
| ELS | 212 | Spoken English                           | 3         | C |
| ELS | 213 | Advance English Syntax II                | 3         | C |
| GST | 222 | Peace, Conflict Resolution Studies       | 2         | C |
|     |     |  | <b>20</b> |   |

|     |     |                                 |   |   |
|-----|-----|---------------------------------|---|---|
| ELS | 217 | History of the English Language | 3 | E |
| ENT | 211 | Entrepreneur II                 |   |   |

**DIRECT ENTRY**

|     |     |                                   |   |   |
|-----|-----|-----------------------------------|---|---|
| GST | 111 | Nigerian Peoples and Culture      | 2 | C |
| GST | 112 | History and Philosophy of Science | 2 | C |

**300 LEVEL**

**First Semester**

| <b>Course Code</b> | <b>Course Title</b>                     | <b>Units</b> | <b>Status</b> |
|--------------------|---|--------------|---------------|
| EDU 300            | Teaching Practice                       | 3            | C             |
| EDU 301            | Educational Administration and Planning | 2            | C             |
| EDU 302            | Education Technology                    | 2            | C             |
| EDU 303            | Childhood Education                     | 2            | C             |
| ELS 301            | English Literature: Romantic Movement   |              |               |
|                    | The Victorian Period                    | 3            | C             |
| ELS 303            | African Drama                           | 3            | C             |
| ELS 305            | African Poetry                          | 3            | C             |
| ELS 306            | Introduction to Applied Linguistics     | 3            | C             |
| ELS 204            | Introduction to Oral Literature         | 3            | C             |
|                    |   |              | <b>21</b>     |

**Second Semester**

| <b>Course Code</b> | <b>Course Title</b>                 | <b>Units</b> | <b>Status</b> |
|--------------------|-------------------------------------|--------------|---------------|
| EDU 311            | Education Psychology                | 2            | C             |
| EDU 312            | Research Method and Data Processing | 3            | C             |
| ELS 311            | English Literature (method Period)  | 3            | C             |
| ELS 312            | African Fiction                     | 3            | C             |
| ELS 313            | Philosophy of English               | 3            | C             |
| ELS 214            | American Literature Survey          | 3            | C             |
|                    |                                     |              | <b>17</b>     |

|     |     |                             |   |   |
|-----|-----|-----------------------------|---|---|
| EDU | 313 | Integrate Science           | 2 | E |
| EDU | 314 | Adolescent Psychology       | 2 | E |
| ELS | 319 | English Language in Nigeria | 3 | E |

#### 400 LEVEL

##### First Semester

| Course Code | Course Title | Units                       | Status |   |
|-------------|--------------|-----------------------------|--------|---|
| EDU         | 400          | Student Project             | 6      | C |
| EDU         | 401          | Practical Teaching          | 3      | C |
| EDU         | 402          | Guidance and Counseling     | 2      | C |
| EDU         | 403          | Continuous Assessment       | 2      | C |
| ELS         | 401          | Studies in Fiction          | 3      | C |
| ELS         | 404          | English for Special Purpose | 3      | C |
|             |              | <b>19</b>                   |        |   |
| ELS         | 409          | New Trends in Syntax        | 3      | E |

##### Second Semester

| Course Code | Course Title | Units   | Status |   |
|-------------|--------------|---|--------|---|
| EDU         | 411          | Organization of Primary and Secondary Schools | 2      | C |
| EDU         | 413          | Comparative Education                         | 2      | C |
| ELS         | 411          | Stylistics                                    | 3      | C |
| ELS         | 412          | Studies in Drama                              | 3      | C |
| ELS         | 314          | Introduction of Semantics                     | 3      | C |
|             |              | <b>13</b>                                     |        |   |
| EDU         | 412          | Emergent Problems in Nigeria Education        | 2      | E |
| EDU         | 414          | Education Law                                 | 2      | E |
| ELS         | 413          | Studies in Poetry                             | 2      | E |
| ELS         | 419          | Psycholinguistics                             | 3      | E |



## **B.A (Ed) FRENCH**

### **PHILOSOPHY**

The Philosophy of the programme is to produce academically and professionally qualified French Language teachers who are equipped with the different techniques and methods for the effective teaching of French language at the junior and senior secondary school levels.

The programme shall also acquaint students with the basic theoretical and practical tools and techniques required in the foreign affairs ministries

### **OBJECTIVES**

- To produce graduates who can teach French at the Senior Secondary School and Tertiary Institutions.
- To equip graduates with relevant academic background to pursue graduate studies in Education.
- To produce graduates who can fit into the administrative cadre in public and private organizations.

### **Admission Requirement**

#### **UME Candidate**

Candidate must possess a minimum of five credit passes at SSCE/NECO or its equivalent at not more than two sittings. These credits must include English Language, Literature in English and French. A minimum pass in Mathematics is required.

#### **Direct Entry Candidates**

Candidate for the direct entry must in addition to the UME requirements have a minimum merit pass in NCE or Diploma or its equivalents. However, a credit pass in General English and French at the NCE/Diploma level are accepted in lieu of O/L English and French respectively.

### **COURSES SYNOPSES**

#### **MEL 101: Laboratory Work**

This course will enable students to acquire a good French speech speed through systematic repetition and audition of phonetic and grammatical patterns in the language laboratory. This will enable students to acquire speech automatisms necessary for the mastery of the language.

#### **MEL 102: Corrective Grammar I**

In this course, emphasis is laid on basic correct French grammatical structures, the exercise, practice of structural forms and dictation.

#### **MEL 103: Extensive Reading of Prescribed Text**

This course introduces students to extensive reading in French, using simple prescribed texts, particularly from the “French Facile” series.

**MEL 104: Introduction to Composition Writing in French**

This course provides students with the basic skills in the practices of writing French, emphasis on narrative and descriptive forms.

**MEL 105: French Conversation I**

In this course, emphasis is laid on the use of French and Francophone documents (songs, short plays, etc). To help the students to communicate and express themselves freely. This will also enable them to increase their vocabulary.

**MEL 111: Corrective Grammar II**

This course deals with the characteristics of the separation units, which can be used as elements of a sentence structure. The course will focus on verb, noun, objectives and prepositional phrases.

**MEL 113: Extensive Reading of Prescribed Text II**

This is a continuation of MEL 103 and is as described above

**MEL 114: Advanced Composition Writing in French**

This is an in-depth study of more complex forms of composition writing e.g exposition, argumentation, etc. This course also enables students to relate the various registers of the written French Language to appropriate themes.

**MEL 115: French Conversation II**

This course will increase the span of students' lexical acquisition and the fluency level of their spoken French.

**MEL 201: French Grammatical Structure**

In this course, a normative approach will be adopted and special emphasis will be laid on the practice and identification of verbal forms, sentence structures and grammatical functions.

**MEL 202: French Comprehensive (Pre-requisite: MEL 102)**

This course will enable students to understand the various registers of the French Language through the study and analysis of documents such as French and Francophone newspaper articles as well as administrative, commercial technical and literary excerpts.

**MEL 203: Survey of French Literature (16th and 17th Centuries)**

This is a survey course on the major trends of the French literary history Students are exposed to the theory and practice of literary schools such as “La Renaissance Litteraire ‘La Pleiades’ and “Le Classicism”.

**MEL 204: Critical Appreciation of Literature**

This is an introductory course of the study of literature. It is designed to expose students to the practice of literary appreciation and its written expressions such as “L’ explication de text” “Le resume de text” “L’ analysis litteraire and “Le commentaries de text”.

**MEL 207: Introduction to Research Methods in French I**

This course aims at initiating the students into the fundamental principles of scientific research in French towards preparing their final year long essay (project) (pre-writing Activities Stage).

**MEL 208: Introduction to French Drama**

This course which is based on some selected French Francophone plays, will pay attention to the various aspects of drama (theory, artistic elements, themes, forms etc).

**MEL 211: Introduction to French Phonetics and Phonology (Pre-requisite of MEL 101)**

This course introduces students to a systematic description of French sounds, both at phonetic and phonological levels

**MEL 212: Advance Studies in Oral and Written Comprehension**

In this course, students will be exposed to more complex oral and written texts. This will improve their ability to identify complex linguistic structures and to analyze effectively the scientific contents of French texts.

**MEL 213: Introduction to Literature Written in French (Pre-requisite MEL 113)**

This course introduces students to the study of literature as an aesthetic drive to convey various meanings and messages. Practical illustration will be provided through the use of prescribed texts.

**MEL 214: Introduction to Culture and Civilization of Francophone Africa**

This course introduces students to the study of the social, economic and cultural life of Francophone African countries, with emphasis on Nigeria's French-speaking neighbours.

**MEL 218: Introduction to French Poetry**

Here, emphasis is on poetry as a literary form in contrast with other genres (prose, drama). Through guided reading, the basic poetic qualities are featured taking examples from the works of Senghor Bernard Dadie, Diop Ceasire etc.

**MEL 301: Translation I**

Students are introduced to the theory and practice of translation from English into French and vice-versa, using simpler texts.

**MEL 302: Advanced Studies in French Phonetics I**

This is a continuation of MEL 211 and will now involve the use of the International Phonetic Alphabet (I.P.A) for transcription phonetic theory and corrective phonetics as applied to French).

**MEL 303: Advanced Studies in French Structure I**

Here emphasis shall be placed on modern grammatical analysis.

**MEL 305: African Literature Written in French**

An introductory study of prose, poetry and drama – general presentation of the works of Senghor, Camara Laye, Bernard Daddie, Birgo Dip, Cesaire etc.

**MEL 306: Literature of the 18th Century**

This is the study of the Age of Enlightenment – covering the French philosophical tradition and other notable writers: Mosequieu, Voltaire, Diderot, Rousseau, Chenier, Beamarchais and the Encyclopaedists.

**MEL 307: Communication Skill I (Written)**

This course is designed to enable students understand and explain written texts as well as being able to communicate in writing their impressions and experiences e.g through letters, abstracts, note-

taking. Reports, condolence or congratulatory messages, announcements etc. They should be acquainted with the varieties of language in the society.

**MEL 308: French Laboratory I**

Here emphasis is laid on reading and speaking with accuracy of pronunciation and fluency, by means of Exercises ranging from reading of selected words, passages, (prose and poems) based on pronunciation, articulation and intonation.

**MEL 311: Translation II**

In this course students will have to translate from English into French more complicated texts. They will also be initiated into the basic principles of the theory of translation.

**MEL 312: Advanced Studies in French Phonetics II**

This course introduces students to a higher level of the study of the French language as special sounds. Students should study in detail the various dimensions of sound description and representation.

**MEL 313: Advanced Studies in French Structure II**

This course deals with the trends in French Semantic studies from the traditional to the modern structural approaches.

**MEL 314: Introduction to French Prose**

Based on selected French and Francophone prose function, this course introduces students to the anatomy of prose, its main features and its aesthetic elements.

**MEL 316: Literature and Philosophy**

This course introduces students to basic philosophical concepts in literature across the ages to the present day.

**MEL 317: Communication Skill II (Oral)**

This course aims at ameliorating the students' spoken French as well as drawing their attention to the mastery of the elementary linguistic principles of interpersonal oral communication. Hence the students should be taught to know and use properly the articulatory organs by I.P.A. Also, abundant exercise should be given to sharpen their aural comprehension: aptitude and fluency in reading and oral expression through organized debates, conference, short contributions, play acting, poem recitations etc. These are to be supported by frequent use of the language laboratory.

**MEL 401: Linguistics Applied to the Teaching of French Language I**

Applied Linguistics will be used to teach students how to understand and analyze any problem related to the sound signals, prosody, communicative and grammatical structures of the French Language. Students should also be introduced to the general notions of French teaching generally and with particular interest in and reference to the Nigerian situation.

**MEL 402: Advanced Translation I (Pre-requisite MEL 301)**

Translation from English into French and vice-versa at an advanced level.

**MEL 403: 19th Century French Literature (Pre-requisite: MEL 306)**

This course involves a study of the various genres and literary schools of the nineteenth century literature.

**MEL 404: Caribbean Francophone Literature**

This course deals in depth the works of major Francophone authors such as Jacques Roumai Stephen – Alexis, Aime Cesaire, etc.

**MEL 405: African Oral Literature**

A study of the theory of oral literature with in-depth study of major oral literature work representatives of the African Francophone world.

**MEL 406: Advanced French Language Practice I**

This course involves the study of the use of French in the modern world: the languages of Science, Technology and the professions, (Law, teaching, journalism, politics, commerce, administrative etc). These shall be supported with systematic revisions of normative elementary grammar rules and analysis: advanced French Grammar stressing composition and comprehension with special emphasis on Morphology.

**MEL 408: Study of Word Literature in Translation**

This course introduces students to world literature written in various languages but translated into French.

**MEL 409: Structure of French I**

This course involves a study of phonology, grammar and semantics of French.

**MEL 411: Linguistics Applied to the Teaching of French Language II**

In continuation of MEL 401, Applied Linguistics will be used to acquaint students with the socio-pedagogical context of learning lexis, vocabulary and understand the various problems raised by stylistic forms.

**MEL 412: Advance Translation II**

This course deals theoretically and practically with how a French/English bilingual person approaches the process of translation from one language into another. It is also designed to teach how the meaning of a certain discourse can be expressed in different words in French language such as stylistic change and summary writing.

**MEL 413: 20th Century French Literature**

A study of the major trends of the twentieth century French Literature as illustrated by representative literary works.

**MEL 414: African Literature in French (Pre-requisite: MEL 305)**

A study in depth of the contemporary Francophone African literature with special emphasis on a chosen genre. The genre can vary from one session to another.

**MEL 417: Literary Criticism in French (Pre-requisite: MEL 214)**

This course lays emphasis on the structure and forms of literary criticism such as structuralism, sociology of literature, etc.

**100 LEVEL**

**First Semester**

| <b>Course Code</b> | <b>Course Title</b>                 | <b>Units</b> | <b>Status</b> |
|--------------------|-------------------------------------|--------------|---------------|
| EDU 100            | Introduction to Teaching Profession | 2            | C             |

|     |     |   |           |   |
|-----|-----|---|-----------|---|
| EDU | 101 | History of Education                          | 2         | C |
| EDU | 102 | Development Psychology                        | 2         | C |
| MEL | 101 | Laboratory Work                               | 2         | C |
| MEL | 102 | Corrective Grammar                            | 2         | C |
| MEL | 103 | Extension Reading of Prescribed Text I        | 2         | C |
| MEL | 104 | Introduction to Composition writing in French | 2         | C |
| MEL | 105 | French Conversation I                         | 2         | C |
| GST | 101 | Use of English and Library                    | 4         | C |
| GST | 102 | Philosophy and Logic                          | 2         | C |
| CFA | 101 | Introduction to Computer                      | 2         | C |
|     |     |   | <b>24</b> |   |

### Second Semester

| Course Code | Course Title | Units                                   | Status |
|-------------|--------------|---|--------|
| EDU         | 112          | Introduction to Language Education      | C      |
| EDU         | 114          | Introduction to Adult Education         | E      |
| EDU         | 115          | Introduction to Special Education       | E      |
| MEL         | 111          | French Phonetics                        | C      |
| MEL         | 112          | Corrective Grammar II                   | C      |
| MEL         | 113          | Extensive Reading of Prescribed Text II | C      |
| MEL         | 114          | Advanced Composition Writing in French  | C      |
| GST         | 111          | Nigerian People and Culture             | C      |
| GST         | 112          | History and Philosophy of Science       | C      |
|             |              | <b>18</b>                               |        |

### 200 LEVEL

#### First Semester

| Course Code | Course Title | Units   | Status |
|-------------|--------------|---|--------|
| EDU         | 201          | Philosophy of Education                             | C      |
| EDU         | 202          | Curriculum and Instruction                          | C      |
| MEL         | 201          | French Grammatical Structure                        | C      |
| MEL         | 202          | French Comprehension                                | C      |
| MEL         | 203          | Survey of French Literature 16th And 17th Centuries | C      |
| MEL         | 204          | Critical Appreciation of Literature                 | C      |
| ENT         | 201          | Entrepreneurship Studies I                          | C      |
| ENT         | 201          | Entrepreneur I                                      |        |
|             |              | <b>16</b>   |        |
| MEL         | 207          | Introduction to French Drama                        | E      |
| MEL         | 206          | Introduction to General Phonetics and Phonology     | E      |

#### DIRECT ENTRY

|     |     |                                  |   |   |
|-----|-----|----------------------------------|---|---|
| CSC | 101 | Introduction to Computer Science | 2 | C |
| GST | 101 | Use of English and Library       | 4 | C |
| GST | 102 | Philosophy and Logic             | 2 | C |

#### Second Semester

| Course Code | Course Title | Units              | Status |   |
|-------------|--------------|--------------------|--------|---|
| EDU         | 211          | French Methodology | 2      | C |

|     |     |  |           |   |
|-----|-----|--|-----------|---|
| EDU | 212 | Measurement and Evaluation                                     | 3         | C |
| EDU | 213 | Sociology of Education   | 2         | C |
| MEL | 211 | Introduction to French Phonetics and Phonology                 | 3         | C |
| MEL | 212 | Advanced Studies in Oral and Writing Composition               | 3         | C |
| MEL | 213 | Introduction to Literature Writing in French                   | 2         | C |
| MEL | 114 | Advanced Composition Writing in French                         | 2         | C |
| MEL | 214 | Introduction to Culture and Civilization Of Francophone Africa | 2         | C |
| GST | 222 | Peace, Conflict Resolution Studies                             | 2         | C |
| ENT | 211 | Entrepreneurship Studies II                                    | 2         | C |
| ENT | 211 | Entrepreneurship   |           |   |
|     |     |  | <b>23</b> |   |
| MEL | 217 | Introduction to French Poetry                                  | 2         | E |

### **DIRECT ENTRY**

|     |     |                                   |   |   |
|-----|-----|-----------------------------------|---|---|
| GST | 111 | Nigerian Peoples and Culture      | 2 | C |
| GST | 112 | History and Philosophy of Science | 2 | C |

### **300 LEVEL**

#### **First Semester**

| <b>Course Code</b> | <b>Course Title</b> | <b>Units</b>                            | <b>Status</b> |
|--------------------|---------------------|---|---------------|
| EDU                | 300                 | Teaching Practice                       | C             |
| EDU                | 301                 | Educational Administration and Planning | C             |
| EDU                | 302                 | Education Technology                    | C             |
| EDU                | 303                 | Childhood Education                     | C             |
| MEL                | 301                 | Translation I                           | C             |
| MEL                | 302                 | Advanced Studies in French Structures   | C             |
| MEL                | 303                 | Advanced Studies in French Phonetics    | C             |
| MEL                | 305                 | African Literature Writing in French    | C             |
| MEL                | 306                 | French of the 18th Century Literature   | C             |
|                    |                     | <b>19</b>                               |               |
| EDU                | 304                 | Rural Education                         | E             |

#### **Second Semester**

| <b>Course Code</b> | <b>Course Title</b> | <b>Units</b>                          | <b>Status</b> |
|--------------------|---------------------|---------------------------------------|---------------|
| EDU                | 311                 | Educational Psychology                | C             |
| EDU                | 312                 | Research Method and Data Processing   | C             |
| MEL                | 311                 | Translation II                        | C             |
| MEL                | 312                 | Advanced Studies in French Phonetics  | C             |
| MEL                | 313                 | Introduction to French Prose          | C             |
| MEL                | 314                 | Advanced Studies in French Structures | C             |
| MEL                | 316                 | Literature and Philosophy             | C             |
|                    |                     | <b>15</b>                             |               |
| EDU                | 313                 | Integrate Science                     | E             |

|         |   |   |   |
|---------|---|---|---|
| EDU 314 | Adolescent Psychology                     | 2 | E |
| MEL 317 | Introduction to Research Method in French | 2 | E |

#### 400 LEVEL

##### First Semester

| Course Code | Course Title                                      | Units     | Status |
|-------------|---|-----------|--------|
| EDU 400     | Student Project                                   | 6         | C      |
| EDU 401     | Practical Teaching                                | 3         | C      |
| EDU 402     | Guidance and Counseling                           | 2         | C      |
| EDU 403     | Continuous Assessment                             | 2         | C      |
| MEL 401     | Linguistics Applied to the Teaching of Language I | 3         | C      |
| MEL 402     | Advanced Translation                              | 3         | C      |
| MEL 403     | 19th Century French Literature                    | 3         | C      |
|             |   | <b>22</b> |        |
| MEL 404     | Caribbean Francophone Literature                  | 2         | E      |
| MEL 405     | African Oral Literature                           | 2         | E      |

##### Second Semester

| Course Code | Course Title   | Unit      | Status |
|-------------|--|-----------|--------|
| EDU 411     | Organization of Primary and Secondary Schools              | 2         | C      |
| EDU 413     | Comparative Education                                      | 2         | C      |
| MEL 411     | Linguistics Applied to the Teaching Of French Language III | 3         | C      |
| MEL 412     | Advanced Translation II                                    | 3         | C      |
| MEL 413     | 20 Century French Literature                               | 3         | C      |
| MEL 414     | African Literature in French                               | 2         | C      |
| MEL 417     | Literature Criticism in French                             | 2         | C      |
|             |  | <b>19</b> |        |
| EDU 412     | Emergent Problems in Nigeria Education                     | 2         | C      |
| EDU 414     | Education Law  | 2         | E      |

## SOCIAL STUDIES

### 1 PHILOSOPHY

Social Studies is an integrated discipline where core contents derive from the study of man in interaction in his environment-man's influence on the environment and the influence of the environment on man. This view of Social Studies places emphasis on the society, putting in focus central issues, problems and possibilities that man has to cope as he interacts with the ever-changing conditions of society. Social Studies does not rest in any one discipline rather, it draws upon relevant disciplines in an integrated form. The essence is not simply to increase the amount of content knowledge in any one discipline but to create possibilities in not the minds of learners. A dynamic process that emphasizes "How to think" not just "What to think" is the central thrust of Social Studies education programme.

Social Studies option in any university, and indeed in schools curricula, provides the best platform to clearly see the possibilities in human evolution, the past, the present, and the challenges of the future. Accordingly, analytical approach that fosters critical thinking and problem-solving is at the heart of



Social Studies, thereby equipping learners with social and life skills essential for productive and useful living and responsible citizenship

It is important to note that the proposed Social Studies degree programme is in line with National University Commission (NUC) restructuring initiatives laid out in its Draft Benchmark and minimum academic standard for Social Studies education. The NUC document recognizes Social Studies as integrated course of study hence, we strongly encourage the production of Social Studies graduate teachers who are critically needed for Nigeria' Junior Secondary schools where the subject is mandated as a core subject and as an option in Senior Secondary School. Thus, our proposal for Social Studies degree programme in the department of Curriculum and Instruction, Faculty of Education brings Ambrose Alli University to the frontiers of currency and responsiveness-a vital provision in the national policy on Education (NPE) and implementing a key NUC mandate on the production of graduate Social Studies teachers. Furthermore, the programme provides National Certificate in Education (NCE) Social Studies teachers opportunity to upgrade up to degree level in the Subject. We should add that many other Universities in the Country have done just that-introduced degree programme in Social Studies Education: University of Lagos, Delta state University, University of Jos, University of Ilorin, Benue state University and Lagos State University. The proposed programme shall award a Bachelor degree of Arts (Education) and Bachelor degree of science (Education) depending on the areas of specialization of the student. This area of specialization covers teaching subjects options of Economics, History, Geography and political science (government).as well as Sociology.

## **2 RATIONALE FOR THE PROGRAMME**

(a) The programme is planned for providing adequately trained Social Studies practitioners/experts to meet the increasing demand for such teachers in the Universal Basic Education programme and the Senior Secondary Schools.

(b) To provide opportunity for NCE Social Studies teachers to upgrade their status up to degree level.

(c) Provides SSCE/GCE candidates opportunity to have a degree in Social Studies Education

(d) Equipping serving teachers with necessary skills and competencies for preparing Secondary Schools students for today global village.

## **ENTRY REQUIREMENTS**

(a) Five credit pass in SSCE/GCE O' level or its equivalence at not more than two sittings to include English Language and Economics and any other of History, Government, Geography, Biology, Health Science, Mathematics, Religious Studies, and Literature in English in addition to an acceptable pass in the Joint Admission and Matriculation Examination for admission into the four years degree programme

### **(b) For Direct Entry students,**

1 NCE (Social Studies) with a minimum of merit pass.

2 Two passes in relevant areas at advance level.

3 Diploma in Education in relevant areas.

A credit pass at SSCE/GCE level is necessary but a pass in English at NCE may be accepted.

## SECTION C: COURSE OUTLINE

100 Level

### First Semester

| Course code | Course Title                                      | Unit | Status |
|-------------|---|------|--------|
| SSE 101     | Fundamentals of Social Studies                    | 2    | core   |
| SSE 101     | The Earth as home of man                          | 2    | core   |
| SSE 101     | The origin of man                                 | 2    | core   |
| EDU 100     | Introduction to teaching profession               | 2    | core   |
| EDU 101     | History of Education                              | 2    | core   |
| EDU 102     | Developmental psychology                          | 2    | core   |
| GST 101     | Use of English and Library                        | 4    | core   |
| GST 102     | Philosophy and Logic                              | 2    | core   |
|             | A minimum of 6 units from Areas of specialization | 6    | core   |
|             | Sub-total   | 24   |        |

### Second Semester

| Course code | Course Title                                      | Unit | Status   |
|-------------|---|------|----------|
| SSE 112     | The family as a social unit                       | 2    | core     |
| SSE 113     | The man in his Social Environment                 | 2    | core     |
| SSE 114     | Citizenship Education                             | 2    | core     |
| EDU 111     | Introduction to social Science Education          | 2    | core     |
| EDU 112     | Introduction to Language Education                | 2    | core     |
| EDU 114     | Introduction to Adult Education                   | 2    | elective |
| EDU 115     | Introduction to special Education                 | 2    | elective |
| GST 111     | Nigerian people and Culture                       | 2    | core     |
| GST 112     | History and philosophy of Science                 | 2    | core     |
|             | A minimum of 6 units from Areas of specialization | 6    | core     |
|             | Sub-total   | 24   |          |
|             | Total for the session                             | 48   |          |

### 100 level

Semester

| Course code | Course Title                                      | Unit | Status |
|-------------|---|------|--------|
| SSE 201     | Social Studies and Nation Building                | 2    | core   |
| SSE 202     | Socio-cultural Aspect of Nigeria                  | 2    | core   |
| SSE 203     | Nation building and Integration in Nigeria        | 2    | core   |
| EDU201      | Philosophy of Education                           | 2    | core   |
| EDU 202     | Principles of Curriculum                          | 2    | core   |
| ENT 201     | Entrepreneurship studies                          | 2    | core   |
|             | A minimum of 6 units from areas of specialization | 6    | core   |
|             | Sub-total   | 21   |        |

**DIRECT ENTRY**

|         |                            |   |   |
|---------|----------------------------|---|---|
| GST 101 | Use of English and Library | 4 | C |
| GST 102 | Philosophy and Logic       | 2 | C |

**Second Semester**

| Course code | Course Title                                      | Unit | Status |
|-------------|---|------|--------|
| SSE 211     | Socio-economic structure of Nigeria before 1960   | 2    | core   |
| SSE 212     | Introduction of Social Research                   | 2    | core   |
| SSE 213     | Man in his physical Environment                   | 2    | core   |
| EDU211      | Subject Methodology                               | 3    | core   |
| EDU 212     | Measurement and Evaluation                        | 3    | core   |
| EDU 213     | Sociology of Education                            | 2    | core   |
| GST 222     | Peace and Conflict Resolution                     | 2    | core   |
| ENT 211     | Entrepreneurship studies                          | 2    | core   |
|             | A minimum of 6 units from areas of specialization | 6    | core   |
|             | Sub-total   | 25   |        |
|             | Total for the session                             | 46   |        |

**DIRECT ENTRY**

|         |                                   |   |   |
|---------|-----------------------------------|---|---|
| GST 111 | Nigerian Peoples and Culture      | 2 | C |
| GST 112 | History and Philosophy of Science | 2 | C |

**300 level****First Semester**

| Course code | Course Title                                      | Unit | Status |
|-------------|---|------|--------|
| SSE301      | Population Issues in Nigeria and Africa           | 2    | core   |
| SSE 302     | Social Studies Research Methods 11                | 2    | core   |
| SSE 303     | Socialization Social Mobility                     | 2    | core   |
| SSE 304     | Social Studies in Nigeria: A comparative study    | 2    | Core   |
| EDU 300     | Teaching Practice                                 | 3    | Core   |
| EDU 301     | Educational Administration and Planning           | 2    | Core   |
| EDU 302     | Educational Technology                            | 2    | Core   |
| EDU 303     | Rural Education                                   | 2    | Core   |
|             | A minimum of 6 units from areas of specialization | 6    | Core   |
|             | Sub-total   | 25   |        |

**Second Semester**

| Course code | Course Title   | Unit | Status |
|-------------|--|------|--------|
| SSE 311     | Nigeria Socio-Economic Structure 1960 to the present Era | 2    | Core   |
| SSE 312     | Environmental Issues in Nigeria                          | 2    | Core   |
| SSE 313     | Nigeria in the context of International Community        | 2    | Core   |
| SSE 314     | Social Studies Education and nationalism                 | 2    | Core   |
| EDU 311     | Educational Psychology                                   | 2    | Core   |
| EDU 312     | Research methods and Data Collection                     | 2    | Core   |
| EDU 112     | Language education                                       | 2    | Core   |
|             | A minimum of 6 units from areas of specialization        | 6    | Core   |
|             | Sub-total  | 20   |        |
|             | Total for the session                                    | 45   |        |

**400 level****First Semester**

| Course code | Course Title  | unit | Status   |
|-------------|---|------|----------|
| SSE 401     | Social Interaction in Nigeria: ethnic and Religious | 2    | Core     |
| SSE 402     | Environmental Resources Management                  | 2    | Core     |
| SSE 403     | Contemporary Issues in Nigerian Society             | 2    | Core     |
| SSE 404     | Urbanization Issues in Nigeria                      | 2    | Elective |
| EDU 400     | Student's Project                                   | 6    | Core     |
| EDU 401     | Teaching Practice                                   | 3    | Core     |
| EDU 402     | Guidance and Counseling                             | 2    | Core     |
| EDU 403     | Continuous Assessment                               | 2    | Core     |
|             | A minimum of 4 units from areas of specialization   | 4    | Core     |
|             | Sub-total   | 25   |          |

**Second Semester**

| Course code | Course Title  | Unit | Status   |
|-------------|---|------|----------|
| SSE 411     | Contemporary Issues in Social Studies Curriculum                    | 2    | Core     |
| SSE 412     | Teaching Social Studies in Nigeria Schools and controversial themes | 2    | Core     |
| SSE 413     | Essentials in National Development                                  | 2    | Core     |
| SSE 414     | Marriage and Kinship Structure in Nigeria and Africa                | 2    | Elective |
| EDU 411     | Organization of Primary and Secondary Schools                       | 2    | core     |
| EDU 412     | Emergent Problems in Nigeria Education                              | 2    | core     |
| EDU 413     | Comparative Education   | 2    | core     |
|             | A minimum of 4 units from areas of specialization                   | 6    | core     |
|             | Sub-total   | 20   |          |
|             | Total for the session   | 45   |          |

**SECTION C****SSE 101 Fundamentals Social Studies**

The meaning and definitions of Social Studies, its philosophy, rationale, objectives. The scope and evolution of Social Studies as a discipline. Social Studies in relation to other disciplines in the Arts and Social Sciences. A historical perspective of Social Studies in Nigeria.

**SSE 102 The Earth as the Home of Man**

A general over view of the earth: its shape, size and position in relation to other planets and heavenly bodies (The Universe and the solar system). The earth as a planet. The continents of the Earth. Origin of the earth (theory of Evolution). The regions of the world using temperature, vegetation and humidity

**SSE 103 The origin of man**

The various explanations of the origin of man: myths and theories. The unique nature of man. The early man and his characteristics. The modern man as distinct from the stone age man. A

historical perspective of civilization. Africa civilization in the context of other civilizations. Man as a social being.

#### **SSE 112 The family as a social unit**

The family as a universal concept. The family structure in Nigeria, and other parts of the world. Functions of the family. Family Values in Nigeria. The family as the bedrock of the society. The changing role of the family in Nigeria and its implication on the society.

#### **SSE113 Man in his social environment**

Primary and secondary social groups. Components of the social groups. The concept of society. Types of society (communal and the associated). Factors that bind a society. Social stratification. Social mobility (vertical and horizontal). Leadership and Followership. Qualities of a good leader. Social contract in the context of accountability and responsibilities

#### **SSE 114 Citizenship Education**

Concept of Citizenship Education. Citizenship Education and nation building. The Duties and rights of a citizen in the Nigerian constitution. The rule of law in a democratic setting lie Nigeria. A citizen responsibilities to the nation. Nationalism and patriotism. The process of acquiring Nigerian Citizenship.

#### **SSE 201 Social Studies Education and Nation Building**

The thrust of this course is national growth and development focusing in the areas of self-reliance, underdevelopment and their implications on social crimes, corruption, unemployment, Quality of life,. Nigeria attempt at nation building. Nigeria as third world country. Features of underdevelopment. Strategies for national growth in Nigeria: MDGs, NEEDS, Vision 2020, etc: Factors militating against Nigeria quest for development: quota system, corruption, ethnicity (tribalism), illiteracy and ignorance, religious, political and ethnic intolerance, etc

#### **SSE 202 Socio-cultural Aspect of Nigeria**

The people of Nigeria (Ethnic groups) and their location. Nigerian culture (material, and non-material).Promoting the culture of Nigeria. The course covers such areas indigeneous dressing, Language, marriage, naming and burial ceremonies

#### **SSE 203 Nation-Building and National Integration**

The concept of nation-building and integration. Nigeria as a nation. Strategies for nation-building in Nigeria: NYSC, NEEDS, Quota system, Federal character commission, etc. Factors that foster national integration drawing upon relevant experiences of other countries eg South Africa, USA..

#### **SSE 211 Socio-Economic System of Nigeria before 1960.**

An overview of Nigeria economic system before the coming of Europeans. The course focuses on Nigeria contact with the Europeans: slave trade, western education, Christianity, and the socio-economic effects of this contact . Slave trade, its causes, effects and stoppage. Commercialization and monetization of the Nigeria economy. The exploitation of Nigeria by the Europeans particularly in the areas of mineral resources, agricultural produce while nothing their effects.

### **SSE 212 Social Studies Research Method 1**

Social Research-Methods of obtaining knowledge: authority, a priori, revelation, experience, faith, science, etc. Purpose of Research and characteristics of a good research design in Social Studies. Sequence of carrying out a research in Social Studies. Basic steps in social Studies research. Methods of data collection.

### **SSE 213 Man in his Physical Environment**

Components of the physical environment. Natural and man-made features. Weather and climate. Elements of weather. The Nigerian climate and its classifications. Nigeria physical setting: relief, Drainage, Vegetation and mineral Resources. Impact of man on the physical environment of the country such as Erosion, deforestation, desertification, flooding, oil spillage, global warming, etc.

### **SSE 301 Population Issues in Nigeria**

The Nigerian population growth: trends and issues (rapid growth, causes and implication on employment, social amenities, crime, etc). Population census in Nigeria: historical perspectives with special reference to its Importance and problems. A critical examination of the Nigerian population policy. Socio-economic impact of Nigerian rapid population growth. Strategies for reducing rapid population growth rate.

### **SSE 302 Social Studies Research Methods 2**

Data collection and Data analysis. Types of variables and their characteristics: dependent, independent, control, moderator and intervening. Types of statistics (descriptive and inferential). Computer application in data analysis. Result interpretation. Writing a report in a social research.

### **SSE 303 Socialization and Social Mobility**

The concept of Socialization. Reasons for socialization. Socialization in the traditional African society (Communal society). The roles of peer groups and age-grade in traditional African society . Africa : a society in transition. Agents of socialization. National strategies for socialization (NOA, NYSC, etc). Value orientation and value clarification in socialization.

### **SSE 304 Social Studies Education in Nigeria: a comparative Analysis**

The course traces the introduction of Social Studies into Nigeria school system. The course reviews the phases the subject went through highlighting the Aiyetoro comprehensive high school experiment, the role played by NERC and CESAC now NERDC. The 1969 national curriculum conference. Early perceptions of Social Studies.. The current state of Social Studies in Nigeria. A comparative study of Social Studies in Britain, America, Russia.

### **SSE 311 Nigeria social-Economic Structure 1960 to Date : The socio-economic Impact.**

Nigeria transition from agro-based to Petro-Economy. The period of oil boom and its impacts on the individuals and groups. Nigeria industrialization policy (indigenization and nationalization policy of the 1970s), Green Revolution, Import substitution etc. The economic depression of the eighties and SAP policy, Nigeria debt burden. Poverty alleviation programme. Nigeria in the era of Social-Economic transformation agenda Power, Roads Rail, security, Education, Agriculture, etc

**SSE 312 Environmental Issues in Nigeria**

Identification of local areas with environmental problems and a visit to local areas facing environmental problems with special emphasis on causes effects and remedies. Discussion of environmental hazards outside the shores of Nigeria-flooding, tornadoes and hurricanes, earthquakes and volcanic, tsunamis, etc are examined

**SSE 313 Nigeria in the Context of International Community**

An overview of Nigerian as a member of international community. It involves the identification relevant bodies such as ECOWAS, AU, UN, etc. The benefits and challenges of Nigerian membership of these bodies are critically examined

**SSE 314 Social Studies Education and Nationalism**

This course identifies critical issues that fosters a positive sense of patriotism. Appreciation of national heritage, shared cultural beliefs and practices. The virtues of mutual acceptance and tolerance of Nigerian political, ethnic and religious differences. Strategies for enthroning democratic principles in a multi-cultural setting like Nigeria forms the thrust of the course.

**SSE 401 Social Interaction in Nigeria**

The course examines the concept of Social interaction in all its ramifications, Social interaction in Nigeria between 1500 and 1800 AD. Critical Elements in Social interaction such as transport and communication are highlighted. The impact of this interactions on socio- economic order and political structure of the country are identified and critically examined.

**SSE402 Environmental Resource management**

The focus of the course is on the on the concept of the Environmental Resource management with a view to their sustainability. The course will identify and locates the important mineral and agricultural resources available in Nigeria. Strategies for the efficient management and conservation are highlighted and explored.

**SSE 403 Contemporal Issues in Nigerian society**

An examination of Nigeria cultural diversity and the implications. Focus on the contemporary issues in Nigeria such as ethnicity, religious and political crisis, kidnapping, militancy, Youth restiveness are identified and their causes and possible resolutions are critically examined.

**SSE 404 Urbanization in Nigeria.**

The concept of urban and rural settlements are examined. Criteria for classification the classification of urban and rural settlements are identified. The problems of urban rural migration are identified and critically examined with emphasis on their causes and effects. Initiatives for addressing urban rural migration in Nigeria such as DFRRI, are identified.

**SSE 411 Contemporal Issues in Social Studies curriculum**

The course examines the dynamic nature of Social Studies Curriculum. Issues such as Religion, Culture Sex education, Drug abuse etc are examined exhaustively. The course identifies emerging areas of Social Studies such as youth restiveness, Global warming, the Environment, Hiv/Aids, Social skills etc.

### **SSE 412 Teaching Social Studies in Schools**

Organization and planning of Social Studies curriculum. Models for Social Studies Curriculum. Strategies and methods for meaningful Social Studies classroom interactions: Discussion, Story-telling, Inquiry, Drama, Simulation, Computer application, etc

### **SSE 413 Issues in National Development**

Patriotism, ethnicity and culture. Nigeria past and present heroes and their contributions to national development and integration. Strategies for enhancing nationalism and patriotism in Nigeria: national merit award and national honours. Strategies for enhancing cultural and ethnic diversity for national development in Nigeria.

### **SSE 414 Marriage and Kinship Structure in Nigeria and Africa**

The concept of marriage. Marriage as a universal concept. Types of marriage in Nigeria. Nigeria culture and the institution of marriage. Nigeria, Ghana, Tanzania, and English marriage institutions a comparative analysis. Emerging trends in Nigeria marriage institutions.

### **Preamble**

The Federal Government has made computer studies as one of the subjects to be offered at primary, junior and senior secondary levels of education in Nigeria. On the basis of this, there is a serious pressing demand for computer science education graduates locally and international to deliver this very important and 21<sup>st</sup> century compliance subject particularly at the senior secondary level of education. The Department of Curriculum and Instruction been a department saddled with the responsibility of preparing teachers for the secondary level of education in Nigeria has the capacity to undertake this all important task in line with National Universities Commissions Minimum Academic Standard. It is also worthy to note that there is no extra cost for running this programme as the would- be students will take the education courses along side with other education students and the computer science courses along side with the computer science students. It is the hope of the department that Senate will find this proposal useful and favourable.

### **Philosophy of Computer Science Education**

The philosophy of Computer Science Education is to produce Computer Science teachers for both Junior and Senior Secondary Schools with adequate knowledge and skills required to achieve national goals of Computer Science Education in particular and Science Education in general since the computer science education has become a compulsory subject with low manpower to teach the subject.

### **Objectives**

Computer Science Education Curriculum is designed to achieve the following objectives:

- (i) To create in students the awareness of and enthusiasm for computer science and its capabilities.
- (ii) To involve the students in an intellectually stimulating and satisfying experience of learning and studying
- (iii) To provide a broad and balanced foundation in computer science knowledge and practical skills.
- (iv) To develop in students through an education in computer science a range of transferable applicable skills of information technology to all aspects of human endeavours.
- (v) To generate in students an appreciation of the importance of computer skills in an industrial, economic, technological and social context.



- (vi) To provide students with knowledge and skills base for further studies in computer science or multi-disciplinary studies involving computer science.

### Admission requirements

#### 1. UTME (Four-Years Programme)

- A candidate must have at least five credit passes in the Senior Certificate Examination or its equivalent in not more than two sittings.
- A candidate must obtain credit pass in Mathematics, English Language and any other three subjects from the following: Physics, Chemistry, Biology, Agricultural science, Economics and Geography.

#### 2. Direct Entry (Three- Years Programme)

Candidates in addition to fulfilling the UTME requirements, must possess one of the followings:

- Pass at merit level in at least two relevant subjects in NCE. These subjects are Computer science, Mathematics, Physics, Chemistry and Economics.
- Pass at merit level in a relevant Diploma programme of a recognized university or upper credit from any Polytechnic/ Colleges of Technology recognized by the Senate of the University.

**NOTE:** Passes at NCE/Diploma excludes Teaching Practice.

### Graduation Requirements

In addition to general requirements for graduation at the University, students in the programme must offer and pass courses totalling 120 credit units for the four years programme and 90 credit units for the three years programme. They must also complete and receive a pass grade in teaching practice and a research project report on a topic approved by the Department.

### Course Structure

#### 100 Level First Semester

| Course code | Course Title                                    | Units     | Status |
|-------------|---|-----------|--------|
| EDU 100     | Introduction to Teaching Profession             | 2         | C      |
| EDU 101     | History of Education                            | 2         | C      |
| EDU 102     | Development Psychology                          | 2         | C      |
| GST 101     | Use of English and Library                      | 4         | C      |
| GST 102     | Philosophy and Logic                            | 2         | C      |
| CSC 101     | Introduction to Computer Science                | 2         | C      |
| STA 101     | Statistics for Physical Science and Engineering | 3         | C      |
| MTH 101     | Algebra and Trigonometry                        | 3         | C      |
|             | <b>Total Units for the Semester</b>             | <b>20</b> |        |

#### 100 Level Second Semester

| Course code | Course Title                                | Units | Status |
|-------------|---|-------|--------|
| EDU 113     | History and Philosophy of Science Education | 2     | C      |
| GST 111     | Nigeria Peoples and Culture                 | 2     | C      |

|         |                                      |           |   |
|---------|--------------------------------------|-----------|---|
| GST 112 | History and Philosophy of Science    | 2         | C |
| CSC 111 | Introduction to Application Packages | 3         | C |
| MTH 111 | Vector and Coordinate Geometry       | 3         | C |
| MTH 112 | Calculus                             | 3         | C |
|         | <b>Total Units for the Semester</b>  | <b>15</b> |   |
|         | <b>Total Units for the Session</b>   | <b>35</b> |   |

### Electives (2 Units)

| Course code | Course Title                      | Units | Status |
|-------------|-----------------------------------|-------|--------|
| EDU 114     | Introduction to Adult Education   | 2     | E      |
| EDU 115     | Introduction to Special Education | 2     | E      |

**Note: Students must take one from the two electives**

### 200 Level First Semester

| Course code | Course Title                        | Units     | Status |
|-------------|-------------------------------------|-----------|--------|
| EDU 201     | Philosophy of Education             | 2         | C      |
| EDU 202     | Curriculum and Instruction          | 2         | C      |
| CSC 201     | Web Development                     | 3         | C      |
| CSC 202     | File Organization                   | 3         | C      |
| CSC 203     | Computer Programming (Fortran)      | 3         | C      |
| CSC 205     | Computer Hardware                   | 3         | C      |
| MTH 205     | Elementary Differential Equation    | 3         | C      |
| ENT 201     | Entrepreneurship Studies            | 2         | C      |
|             | <b>Total Units for the Semester</b> | <b>21</b> |        |

### 200 Level Second Semester

| Course code | Course Title                          | Units     | Status |
|-------------|---------------------------------------|-----------|--------|
| EDU 211     | Method of Teaching Computer Education | 2         | C      |
| EDU 212     | Measurement and Evaluation            | 3         | C      |
| EDU 213     | Sociology of Education                | 2         | C      |
| CSC 212     | Information Processing                | 3         | C      |
| GST 222     | Peace and conflict Resolution         | 2         | C      |
| ENT 211     | Entrepreneurship Studies              | 2         | C      |
| CSC 211     | Data Structure in Algorithm           | 3         | C      |
| EDU 312     | Research Method and Data Processing   | 3         | C      |
| CSC 215     | Computer Programming II (PASCAL)      | 3         | C      |
|             | <b>Total Units for the Semester</b>   | <b>23</b> |        |
|             | <b>Total Units for the Session</b>    | <b>44</b> |        |

### Direct Entry

#### 200 Level First Semester

| Course code | Course Title                     | Units | Status |
|-------------|----------------------------------|-------|--------|
| EDU 201     | Philosophy of Education          | 2     | C      |
| EDU 202     | Curriculum and Instruction       | 2     | C      |
| CSC 201     | Web Development                  | 3     | C      |
| MTH 205     | Elementary Differential Equation | 3     | C      |
| ENT 201     | Entrepreneurship Studies         | 2     | C      |

|         |                                     |           |   |
|---------|-------------------------------------|-----------|---|
| CSC 101 | Introduction to Computer Science    | 2         | C |
| GST 101 | Use of English and Library          | 4         | C |
| GST 102 | Philosophy and Logic                | 2         | C |
|         | <b>Total Units for the Semester</b> | <b>20</b> |   |

### 200 Level Second Semester

| Course code | Course Title                          | Units     | Status |
|-------------|---------------------------------------|-----------|--------|
| EDU 211     | Method of Teaching Computer Education | 2         | C      |
| EDU 212     | Measurement and Evaluation            | 3         | C      |
| EDU 213     | Sociology of Education                | 2         | C      |
| CSC 211     | Data Structure in Algorithm           | 3         | C      |
| CSC 212     | Information Processing                | 3         | C      |
| EDU 312     | Research Method and Data Processing   | 3         | C      |
| CSC 215     | Computer Programming II (PASCAL)      | 3         | C      |
| GST 222     | Peace and conflict Resolution         | 2         | C      |
| ENT 211     | Entrepreneurship Studies              | 2         | C      |
| GST 111     | Nigeria Peoples and Culture           | 2         | C      |
| GST 112     | History and Philosophy of Science     | 2         | C      |
|             | <b>Total Units for the Semester</b>   | <b>27</b> |        |
|             | <b>Total Units for the Session</b>    | <b>47</b> |        |

### 300 level First Semester

| Course code | Course Title                            | Units     | Status |
|-------------|---|-----------|--------|
| EDU 300     | Teaching Practice                       | 3         | C      |
| EDU 301     | Educational Administration and Planning | 2         | C      |
| EDU 302     | Educational Technology                  | 3         | C      |
| EDU 305     | Computer Applications in Education      | 2         | C      |
| CSC 301     | Introduction to Digital Design          | 3         | C      |
| CSC 302     | Operating Systems                       | 3         | C      |
| CSC 305     | Artificial Intelligence (AI)            | 3         | C      |
| CSC 306     | System Analysis and Design              | 3         | C      |
|             | <b>Total Units for the Semester</b>     | <b>22</b> |        |

### 300 Level Second Semester

| Course code | Course Title                               | Units     | Status |
|-------------|--|-----------|--------|
| EDU 315     | Students Industrial Work Experience Scheme | 15        | C      |
|             | <b>Total Units for the Session</b>         | <b>37</b> |        |

### Direct Entry

#### 300 level First Semester

| Course code | Course Title                            | Units | Status |
|-------------|---|-------|--------|
| CSC 202     | File Organization                       | 3     | C      |
| CSC 203     | Computer Programming (Fortran)          | 3     | C      |
| CSC 205     | Computer Hardware                       | 3     | C      |
| EDU 300     | Teaching Practice                       | 3     | C      |
| EDU 301     | Educational Administration and Planning | 2     | C      |
| EDU 302     | Educational Technology                  | 3     | C      |

|         |                                     |           |   |
|---------|-------------------------------------|-----------|---|
| EDU 305 | Computer Applications in Education  | 2         | C |
| CSC 301 | Introduction to Digital Design      | 3         | C |
| CSC 302 | Operating Systems                   | 3         | C |
| CSC 305 | Artificial Intelligence (AI)        | 3         | C |
|         | <b>Total Units for the Semester</b> | <b>28</b> |   |

### 300 Level Second Semester

| Course code | Course Title                               | Units     | Status |
|-------------|--|-----------|--------|
| EDU 315     | Students Industrial Work Experience Scheme | 15        | C      |
|             | <b>Total Units for the Session</b>         | <b>43</b> |        |

### 400 Level First Semester

| Course code | Course Title                          | Units     | Status |
|-------------|---------------------------------------|-----------|--------|
| EDU 400     | Project                               | 6         | C      |
| EDU 401     | Practical Teaching                    | 2         | C      |
| EDU 402     | Guidance and Counselling              | 2         | C      |
| EDU 403     | Continuous Assessment                 | 2         | C      |
| CSC 402     | Software Engineering                  | 3         | C      |
| CSC 407     | Structured Programming and Algorithms | 3         | C      |
| CSC 405     | Computer Graphics                     | 3         | C      |
|             | <b>Total Units for the Semester</b>   | <b>21</b> |        |

### 400 Level Second Semester

| Course code | Course Title                                  | Units     | Status |
|-------------|---|-----------|--------|
| EDU 313     | Integrated Science                            | 2         | C      |
| EDU 311     | Educational Psychology                        | 2         | C      |
| EDU 411     | Organization of Primary and Secondary Schools | 2         | C      |
| EDU 412     | Emergent Issues/Problems in Nigeria Education | 2         | C      |
| EDU 413     | Comparative Education                         | 2         | C      |
| CSC 412     | Computer Performance Evaluation               | 3         | C      |
| CSC 414     | Database Management                           | 3         | C      |
| CSC 413     | Data Communication and Networking             | 3         | C      |
|             | <b>Total Units for the Semester</b>           | <b>19</b> |        |
|             | <b>Total Units for the Session</b>            | <b>40</b> |        |

### Direct Entry

#### 400 Level First Semester

| Course code | Course Title                          | Units | Status |
|-------------|---------------------------------------|-------|--------|
| EDU 400     | Project                               | 6     | C      |
| EDU 401     | Practical Teaching                    | 2     | C      |
| EDU 402     | Guidance and Counselling              | 2     | C      |
| EDU 403     | Continuous Assessment                 | 2     | C      |
| CSC 402     | Software Engineering                  | 3     | C      |
| CSC 407     | Structured Programming and Algorithms | 3     | C      |
| CSC 405     | Computer Graphics                     | 3     | C      |

|         |                                     |           |   |
|---------|-------------------------------------|-----------|---|
| CSC 306 | System Analysis and Design          | 3         | C |
|         | <b>Total Units for the Semester</b> | <b>24</b> |   |

#### 400 Level Second Semester

| Course code | Course Title                                  | Units     | Status |
|-------------|---|-----------|--------|
| EDU 312     | Research Methods and Data Processing          | 3         | C      |
| EDU 313     | Integrated Science                            | 2         | C      |
| EDU 311     | Educational Psychology                        | 2         | C      |
| EDU 411     | Organization of Primary and Secondary Schools | 2         | C      |
| EDU 412     | Emergent Issues/Problems in Nigeria Education | 2         | C      |
| EDU 413     | Comparative Education                         | 2         | C      |
| CSC 412     | Computer Performance Evaluation               | 3         | C      |
| CSC 414     | Database Management                           | 3         | C      |
| CSC 413     | Data Communication and Networking             | 3         | C      |
|             | <b>Total Units for the Semester</b>           | <b>19</b> |        |
|             | <b>Total Units for the Session</b>            | <b>43</b> |        |

## COURSE SYNOPSES

### COMPUTER SCIENCE COURSE DESCRIPTION

#### **CSC 101 Introduction to Computer Science: (3 Units)**

History of Computer, Functional components of computers characteristics of computer. Data representation (Number System and character representation). Basic Computer Algorithms, Pseudodes, Flow- Charts. Introduction to inform technology, introduction to BASIC programming languages overview of computer applications.

#### **CSC 111 Introduction to Application Packages: (3 Units)**

Line spacing and merging. Formatting text, importing text and exporting information, graphics effects, editing graphics versus working with templates, information storage, sorting and retrieval, making customized records validating records entries. Creating forms and control, creating performing and saving queries. The use of MS- word and Dbase IV or Paradox or foxpro or Oracle 10g.

#### **CSC 112 Computer Electronics: (3 Units)**

Basic circuit theory, DC Circuits, Kirthoffs law, AC Circuits, RL. Circuit, RC Circuit RLC Circuit, Norton Theorem Etc, Semi- conductor; Diodes, bipolar junction and field effect transistor. Elementary digital circuit, AND OR NAND, NOR gates. Simple computer circuits; Oscillators; Simple Sewquential Circuits; register, counters, multiplexers, decoders laboratory exercise.

#### **CSC 202 Web Development: (3 Units)**

Introduction to the WWW, HTML- document structure images, links, maps, table, frames, forms protocols and sever technology – HTTP, TCP/IP, URLS CGI, Java Script Syntax, Dom forms processing common tasks sheet – fundamentals, CSS formatting, CSS positioning, web design and

usability, introduction to XML- syntax, DTDs XSL, XHTML. Multimedia; audio, video animation, multimedia server and protocol technology web development tools –editors site management tools.

**CSC 203 Computer Programming I (FORTRAN): (3 Units)**

Introduction to problem solving methods and algorithms development, designing, coding, debugging and documenting programs using techniques of good programming language style, computer organization, programming language and programming algorithms development. A widely used programming language should be used in the teaching above. Pre- requisite- CSC 101.

**CSC 205 Computer Hardware: (3 Units)**

Computer circuits, diode, arrays PLAS etc. Integrated circuits fabrication processes. Use of MSI, LSI, AND VLSI IC hardware design. Peripheral and secondary memories, core memory, etc. Magnetic devices, disks tapes, video disks etc peripheral devices, printers, to analog converter. Analog computers.

**CSC 211 Data Structures and Algorithms: (3 Units)**

Algorithm and flow charts arrays stacks, queues, linked list sparse matrices and deques algorithms for sorting and searching. Bits, Bytes, Word Linear structure, tree structure, set and relations; high level data and data handling facilities.

**CSC 212 Information Processing: (3 Units)**

Information system, time sharing, system management, information system selective information by conditional branch processes. Trade – off between selective and speed information storage and retrieval methods. On time information retrieval overflow to file organization, data structure, sorting and merging construction and maintenance of search trees, variation on Quick sort, Heap sort address, calculation sorting quadratic selection and tournament sorting, magnetic tape sorting, balance merger, cascade lyphases and Oscillating merger sorts including read backward operation and tape remind times, disk sorting, keysorts, work file network, decision table conversion of decision tables to program network, rule mark and other technique. Data compression techniques to reduce the amount of space needed to store program and data files, databases as a tool for information processing.

**CSC 301 Introduction to design: (3 Units)**

Combinational logic, sequential logic, microprocessors and micro computers

**CSC 302 Operating System: (3 Units)**

Introduction to computer processes, multiprogramming and multiprocessing system. Issues in analyzing and designing operating system, memory management, name management protection resource allocation.

**CSC 305 Artificial Intelligence: (3 Units)**

Structure Programming elements, structural design principles, abstraction modularity, stepwise refinement, structured design techniques, Teaching of a structured programming language etc

**CSC 306 System Analysis and Design: (3 Units)**

Introduction to system design and analysis tool, determining system alternatives, physical design of computer sub- system, physical design of manual sub-design special design special design feature.

**CSC 401 Organization of Programming Languages: (3 Units)**



Definition of profession and teaching. Basic requirement needed by any occupation. Teaching in Nigeria and the contemporary debate on whether it is a profession or an occupation. Steps taken to professionalize teaching i.e. the various educational reforms.

**EDU 101 History of Education: (2 Units)**

Historical background and education in Nigeria. Colonial educational policy and post-independence education reforms. The course will also ex-ray various commissions set up by Colonial Government to reforms educational system. And also contemporary issues and policy formulation and implementation of country education system.

**EDU 102 Developmental Psychology: (2 Units)**

Stages of child development i.e. prenatal and post-natal development. Development during infancy, early childhood, later childhood, adolescent and adult stage. Characteristics of children at various stages of development and their implication for educational planning and implementation. Cognitive theories about these developments shall also be x- rayed.

**EDU 111 Introduction to Social Studies Education: (2 Units)**

The course will x-ray issues relating to man and his physical environment. It will also deal with man in relation with his social environment efforts made by man to change his physical environment as well as the effect of environment on man will be discussed. The course goes further to examine the act of government problem associated with teaching of social studies in schools and methods of teaching social study.

**EDU 113 History and Philosophy of Science: (2 Units)**

Historical and philosophical base of science and technology education. The relevance of science and technology education in developing nations. Emphasis should be laid on the relevance of science and education in Nigerian aspiration towards technological development of science and technology in Nigerian will also be discussed.

**EDU 114 Introduction to Adult Education: (2 units)**

Historical foundation of adult education in Nigeria relevance of adult illiteracy programme in educationally background society. Adult education and community development principles involve in administration of adult and illiteracy programme. A critical appraisal of adult illiteracy programme in Nigeria.

**EDU 115 Introduction to Special Education: (2 Units)**

Definition of meaning of special education. Categories and exceptionality in children i.e visual impaired mentally retarded, learning disability, ordinarily impaired or deafness, emotional will also examine methods of educating handicap children as well as gifted or talented children.

**EDU 201 Philosophy of Education: (2 Units)**

The course will examine the various philosophical principles affecting education. Philosophical theories like existentialism. Idealism and pragmatism will also be discussed. Great philosophers like Plato. Socrates Aristotle etc will also be discussed. Philosophy of pragmatism will be discussed extensively with emphasis on their impact on educational reform or development.



**EDU 202 Curriculum and Instruction: (2 Units)**

Philosophical base of curriculum development will be examined. Curriculum process and theories, curriculum objectives, purpose of objectives, agencies involved in curriculum development as well as processes of curriculum evaluation will be discussed. Furthermore, strategies on curriculum innovation will be discussed. Emphasis on curriculum process should be laid on the various curriculum models i.e. Whiller's models, Talars models, etc.

**EDU 211 Subject methods: (3 Units)**

This course focuses on methods on teaching with specific topics in student area of specialization. Various teaching methods will be discussed i.e. plenary methods team teaching methods, etc should be thought. Furthermore, the act of designing a lesson plans and lesson notes should also be taught. Students should also be exposed to micro teaching to test their proficiency in the act of using instructional techniques available to them.

**EDU 212 Measurement and evaluation: (3 Units)**

Basic principles used in measurement and evaluation should be taught. Statistical method used in analysis of data should also be taught. Different types of data and methods of analyzing each should be taught.

**EDU 213 Sociology of education: (2 Units)**

Sociology principles involved in education are to be discussed. Emphasis should be laid on culture, society, factors binding society together, social stratification, social mobility, and factors affecting social mobility agencies of education together with some abnormal or deviant behaviour in the school system will also be discussed.

**EDU 300 Teaching Practice: (3 Units)**

Students will be sent out for six weeks teaching practice exercise to put into practice the knowledge they have gained on course like developmental psychology, philosophy of education, educational technology as well as education psychology.

**EDU 301 Educational Administration and planning: (2 Units)**

Basic principles and theories of administration will be discussed. Planning in terms of programme planning of supervision strategies and general administration of schools will be discussed with emphasis on the duties of a principal or headmaster, the school inspectors, ministry of education, the function of the class teacher, inspectorate division of ministry of education in relation to supervision of instruction should be discussed.

**EDU 302 Educational Technology: (2 Units)**

Historical background of educational technology, relevance of the use of technology to the business of teaching and learning should be discussed. Educational media, the use of media and the relevance of media in teaching and learning situation should be emphasized. Two and three dimensional aids, soft and hardware, projected and non-projected aids should also be discussed. Factors militating against the use of projected aids in Nigeria should also be discussed. Furthermore, improvisation of instructional materials should be taught.

- EDU 303 Childhood education: (2 Units)**  
 Meaning of the concept of childhood characteristics of children at early and later childhood, their approaches to learning and methods of teaching children at early and later childhood. Problems associated with children in early and later childhood should be discussed.
- EDU 304 Rural education: (2 Units)**  
 Problems associated with living in rural areas has be discussed with particular emphasis on cattle or nomadic Fulanis or migrant fishermen. Emphasis should also be laid on methods of educating the children of the nomadic persons.
- EDU 311 Educational psychology: (2 Units)**  
 Various psychological principles involves in teaching and learning should be examined e.g. Pavlous experiment. Thondaic, Skinner etc, the effect of this psychological theories on teaching and learning process should be x-rayed. Individual differences and psychological make up of the individual in relation to teaching and learning should be examined.
- EDU 312 Research methods and data processing: (3 Units)**  
 This course will examine the meaning of research, processing involved in carrying out research. E.g. concept like research design, research problem, formulation of research hypothesis or research questions development and validation of research instrument, methods of collecting research data analysis should be discussed. Students should be taught how to write simple research reports from either experimental or quasi-experimental studies carry out by them or from a descriptive survey. They should also be taught how to acknowledge other authorities site in their work.
- EDU 313 Integrated science: (2 Units)**  
 Historical background of science and the components of science should also be discussed. Emphasis should be laid on the inter-relationship between these components. E.g Chemistry, Biology, Physics, and other Biological Science like Botany, Bio-Chemistry, Micro-Biology and Agricultural Science etc.
- EDU 314 Adolescence psychology: (2 Units)**  
 Meaning of the concept of adolescent behavioural characteristics of adolescent, effects of such behaviour on teaching learning process, the society, their peer group, and the family organization. Approaches used in educating adolescent.
- EDU 400 Research project: (6 Units)**  
 Students are expected to carry out independent studies in their own field of specialization. Such studies are expected to focus on finding solutions to the problems of teaching and learning.
- EDU 401 Practical teaching: (3 Units)**  
 Students are expected to spend six weeks on industrial attachment to afford them of the opportunity on the job training in their area of specialization. Such training will expose them to modern techniques of administration or have an insight into what to expect in the world of work. Such attachment also offers the student the opportunity to put into practice the knowledge, principle and practice they earlier acquired in the classroom during such attachment.
- EDU 402 Guidance and counselling: (2 Units)**

Definition of guidance and counselling service, counselling processes, qualities of a good counsellor occupation guidance, married counselling, counselling services in schools, contemporary issues in counselling services in Nigeria.

**EDU 403 Continuous assessment: (2 Units)**

Meaning of continuous assessment, national policy on education, its emphasis on continuous assessment, the domain of continuous assessment i.e. cognitive, psychomotor and affective domains. The use or mis-use of continuous assessment in primary and post primary schools in Nigeria. Problems and prospects of the use of continuous assessment in schools in Nigeria.

**EDU 411 Organization of primary and secondary schools in Nigeria: (2 Units)**

Programme organization and policy organization of primary schools in Nigeria, emphasis on the role of Ministry of Education, Post-primary Education Board, Local Education Authority in policy formulation and implementation in Primary and Secondary Education. Contemporary issues and problems pledging Primary and Secondary Education in Nigeria.

**EDU 412 Emergent problems in Nigeria education: (2 Units)**

This course examine contemporary issues and problems affecting education of Nigeria such as examination leakages and mal-practices, students unrest, cultism, blocking, sexual harassment, alcoholism, and drug addition, immoralities, etc. The course will also x-rayed problems of funding in schools, non-regular payment of salary of teacher resulting in series of strike action or work to rule.

**EDU 413 Comparative education: (2 Units)**

This course is designed to acquaint students with the various policies and programme of different countries towards this end emphasis will be place on British educational system, America, Ghana, Cote d’ voir, China, Tanzania, Nigeria etc.

**EDU 414 Education law: (2 Units)**

This course is designed to equip students with the various educational ordinance or laws. Emphasis here will be law guiding appointment, discipline and promotion of teachers. Various arbitration avenue available to pupils, students or staff in case of conflict, laws that boarders in unprofessional misconduct or procedures for dealing with erring students in school setting. Emphasis will be on various reforms or amendments to educational law and also procedures for seeking redress.

**LIST OF STAFF IN THE DEPARTMENT OF CURRICULUM AND INSTRUCTION**

| S/N | Name of Staff             | Qualifications                   | Rank/Designation | Specialization        |
|-----|---------------------------|----------------------------------|------------------|-----------------------|
| 1   | Dr. P.J. Solomon-Alufohai | B.Ed, M.Ed, Ph.D                 | S/Lecturer/HOD   | Language Education    |
| 2   | Prof. L.I Aguele          | B.Ed, M.Ed, PGD (Comp. Sci) Ph.D | Professor/ Dean  | Mathematics Education |
| 3   | Prof. E. O. Imhanlahimi   | B.Sc, PGDE, M.Ed, Ph.D           | Professor        | Science Education     |
| 4   | Prof. (Mrs.) O.C. Otote   | BA (Ed), M.Ed, Ph.D              | Professor        | Social Studies        |
| 5   | Prof. P. O. Uhumuavbi     | B.Ed, M.Ed, Ph.D                 | Professor        | Science Education     |
| 6   | Dr. H. E. Ibhafidon       | B.Sc(Ed), M.Ed, Ph.D             | S/Lecturer       | Social Studies        |
| 7   | Dr. P. A. Ebhomien        | B.Sc, PGDE, M.Ed, Ph.D           | Lecturer II      | Mathematics Education |

|    |                     |                        |                |                       |
|----|---------------------|------------------------|----------------|-----------------------|
| 8  | Dr. (Mrs.) M. Asika | B.Ed, M.Ed,<br>Ph.D    | Lecturer II    | Mathematics Education |
| 9  | Mr. Anolu, E        | B.Sc (Ed), M.Ed        | Asst. Lecturer | Mathematics Education |
| 10 | Mrs. J.O. Aigboje   | NCE, B.Sc (Ed)<br>M.Ed | Asst. Lecturer | Science Education     |

### Associate Staff

#### LIST OF STAFF IN THE FACULTY OF EDUCATION

| S/N | Name of Staff                       | Qualifications                | Rank/Designation | Specialization                        |
|-----|-------------------------------------|-------------------------------|------------------|---------------------------------------|
| 1   | Prof. A. I. Ojugo                   | NCE, B.Ed,<br>M.Ed, Ph.D      | Professor        | Guidance and counselling              |
| 2   | Prof. O. Aluede                     | B.Ed, M.Ed,<br>Ph.D           | Professor        | Guidance and counselling              |
| 3   | Prof. I.O.C. Adomeh                 | B.S.T, M.Ed,<br>Ph.D          | Professor        | Guidance and counselling              |
| 4   | Prof. R. O. A. Aluede               | B.Ed, M.Ed,<br>Ph.D           | Professor        | Educational Foundation and management |
| 5   | Prof. (Mrs.) E.O. Omoregie          | B.Ed, M.Ed,<br>Ph.D           | Professor        | Educational Foundation and management |
| 6   | Prof. (Mrs.) J. O. Omokhodion       | B.Sc, M.Ed, Ph.D              | Professor        | Educational Foundation and management |
| 7   | Prof. D. O. Omoike                  | B.A. Ed, M.Ed,<br>Ph.D        | Professor        | Educational Foundation and management |
| 8   | Dr. O.A. Osadolor                   | NCE, B.Ed,<br>M.Ed, Ph.D      | Reader           | Educational Foundation and management |
| 9   | Dr. (Mrs.) R. I. Osarenren- Osaghae | B.Sc, M.Ed, Ph.D              | Reader           | Educational Foundation and management |
| 10  | Dr. (Mrs.) J. E. Afen-Akpaída       | NCE, B.A (Ed),<br>M.Ed, Ph.D  | Reader           | Guidance and counselling              |
| 11  | Dr. B. O. Jimoh                     | B.A Ed, M.Ed,<br>Ph.D         | S/Lecturer       | Guidance and counselling              |
| 12  | Dr. (Mrs.) J. O. Eimuhi             | B.Sc, PGDE,<br>M.Ed, Ph.D     | S/Lecturer       | Educational Foundation                |
| 13  | Dr. (Mrs.) B. O. Ehigbor            | NCE, B.Sc (Ed),<br>M.Ed, Ph.D | S/Lecturer       | Measurement and evaluation            |
| 14  | Dr. (Mrs.) P. E. Onolemhenlen       | B.A (Ed), M.Ed,<br>Ph.D       | S/lecturer       | Guidance and counselling              |
| 15  | Dr. P. A. Arhedo                    | NCE, B.Sc (Ed),<br>M.Ed, Ph.D | S/Lecturer       | Guidance and counselling              |
| 16  | Dr. O. O. Agbonluae                 | B.Sc, M.Ed, Ph.D              | Lecturer I       | Guidance and counselling              |
| 17  | Mr. E. O. Onoguere                  | B.Ed, M.Ed                    | Lecturer I       | Guidance and counselling              |
| 18  | Dr. S. O. Ehiaguina                 | B.Sc (Ed), M.Ed,<br>Ph.D      | Lecturer II      | Educational foundation and Management |
| 19  | Rev. Fr. Dr. O.S. Imhangbe          | B.A, M.A. Ph.D                | Lecturer II      | Educational foundation and Management |
| 20  | Dr. (Mrs.) M. Okosun                | NCE, B.A, M.Ed,               | Lecturer II      | Educational foundation and            |

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|----|-----------------------|--------------------------|----------------|--|
|    |                       | Ph.D                     |                | Management                               |
| 21 | Mrs. B. A. Azelama    | B.Sc, PGDE,<br>M.Ed      | Asst. Lecturer | Educational foundation and<br>Management |
| 22 | Mrs. V. A. Ojo-Maliki | B. A Ed, M.Ed            | Asst. Lecturer | Educational foundation and<br>Management |
| 23 | Mrs. M. Isabu         | NCE, B.Sc (Ed),<br>M. Ed | Asst Lecturer  | Educational foundation and<br>Management |