

## 2019 CAREER DEVELOPMENT COURSE

<http://www.nigerianbme.org/cbet/course2019>

April 07 - 13, 2019 **CDC 2019** Uyo, Akwa Ibom State

**CDC 2019 A: Fellowship of CBET, FCBET**

**CDC 2019 B: Advanced Biomedical Engineering, ABME**

**CDC 2019 C: Intermediate Biomedical Engineering, IBME**

**CDC 2019 D: Basic Biomedical Engineering, BBME**

**CDC 2019 E: Foundation Biomedical Engineering, FBME**

### Course Fees:

Course A - Before Dec 31 2018 = N80,000; After Dec 31 = N100,000  
 Course B - Before April 07, 2019 = N45,000; After April 07 = N55,000  
 Course C - Before April 07, 2019 = N35,000; After April 07 = N45,000  
 Course D - Before April 07, 2019 = N25,000; After April 07 = N35,000  
 Course E - Before April 07, 2019 = N7,000; After April 07 = N12,000  
 Non Members - B = N80,000; C = N70,000; D = N60,000; E = N30,000; Overseas - \$500

### Professional Exam Fees:

Course A - Fellowship of CBET = N80,000  
 Course B - Advanced Biomedical Engineering = N25,000  
 Course C - Intermediate BME I = N15,000; Intermediate BME II = N20,000  
 Course D - Basic BME I = N10,000; Basic BME II = N12,000  
 Course E - FBME I = N3,000; FBME II = N6,000; FBME III = N9,000

### Certification Fees

#### Membership Categories:

Fellows (Annual Re-Certification) = N10,000;  
 Members / Graduates / Associates I & II = N5,000

#### Students:

Annual Certification (Non-Graduating Students) = N2,000  
 Graduating Students: Induction = N20,000; Certification / Prof. Exams = N10,000



The CDC 2019 is an important programme of the College of Biomedical Engineering and Technology, CBET, which is used to develop members' career and to bring the participants technical and professional knowledge up to date with current views of biomedical engineering and technology at the global level. It is mandatory for every biomedical engineering professional in Nigeria seeking for Fellowship of the College, FCBET.

Traditionally, the CDC is divided into five parts: A-E. Part A is Thesis defense for the prestigious FCBET. Part A candidates would have completed other requisite parts of the professional program. Part B is the Advanced Biomedical Engineering, ABME to take care of the advanced levels & cadres of professionals in biomedical engineering and technology. To qualify for Part B, candidates must have passed the Intermediate Biomedical Engineering professional examinations.

Part C is Intermediate Biomedical Engineering, IBME to take care of the intermediate cadres of professionals in biomedical engineering and technology. To qualify for Part C, candidates must have passed the Basic Biomedical Engineering professional examinations.

Part D is Basic Biomedical Engineering, BBME to take care of the initial levels of professionals in biomedical engineering and technology. Every new graduate entrant into the professional course programme is expected to take this course.

Part E is Foundation Biomedical Engineering. Undergraduates of tertiary institutions and unskilled workers in the field of biomedical engineering and technology are expected to take this FBME to give them the foundation they need in the field of biomedical engineering and technology.

### **CDC 2019A: Fellowship of CBET**

Applications are invited from suitably qualified candidates for their Fellowship Defense leading to award of the Fellowship of the College of Biomedical Engineering and Technology (FCBET) in the following Faculties:

- i. Faculty of Biological Engrg & Technology (Bioengrg/Biotech) BEAT
- ii. Faculty of Medical Engineering & Technology MEAT
- iii. Faculty of Clinical Engineering & Technology CEAT
- iv. Faculty of Rehabilitation Engrg & Orthopaedic Technology REOT
- v. Faculty of Biomedical Physics & Allied Sciences BPAS

To qualify to apply for FCBET, the person should have:

- i. been in the class of Members (MCBET) for a period of seven years
- ii. had not less than 15 yrs of experience in a superior responsibility in bme and technology or in the professional practice allied to bmet
- iii. obtained all CBET Prof. Certs., Dips upto Adv bme.

#### **Instructions and Requirements:**

- i Applications must get to College Secretariat on/before Dec 31,2018  
Download Application Form from: <www.nigerianbme.org/cbet>
- ii. All applications must be accompanied by a copy of exam fee teller
- iii. Professional exam fee for FCBET is N80,000 before the deadline and N100,000 subsequently
- iv. Successful applicants to be assigned Supervisors by Jan15, 2019
- v. Candidates to submit their Dissertation on/before March 31,2019
- vi. Final Defense shall take place in Uyo b/w April 07 and 13 2019.

### **CDC 2019 B: Advanced Biomedical Engineering (ABME)**

Participants here will choose courses from their respective faculties in addition to the general courses.

#### **Course Content**

##### **General Courses, GNRC**

- \* Advanced Biomedical Engineering and Emerging Techniques
- \* Biomedical Systems Analysis
- \* Ethico-legal Issues in Biomedical Engineering
- \* Advanced Biomedical Engineering Laboratory

##### **Biological Engineering & Technology (Bioengrg/Biotech) BEAT**

- \* Computational Biology
- \* Issues in Stem cells
- \* Bio-remediation and Bioterrorism
- \* Bio-compatibility in biomaterials

##### **Medical Engineering & Technology MEAT**

- \* Advanced Biomedical Engineering Design
- \* Medical Informatics and e-Health
- \* Biomedical engineering Procurement and Installation
- \* Equipment Reliability & Quality Assurance

##### **Clinical Engineering & Technology CEAT**

- \* Ambulatory Systems and Telemedicine
- \* Computerization of the Health Systems
- \* Equipment Maintenance Management
- \* Clinical Procedures and Systems

##### **Rehabilitation Engineering & Orthopaedic Technology REOT**

- \* Design of Orthopaedic Equipment
- \* Application of Bioregenerative Engineering to Organ Systems
- \* Physical Assessment in Rehabilitation
- \* Issues in Rehabilitation Engineering

##### **Biomedical Physics & Allied Sciences BPAS**

- \* Plasma and Molecular Biophysics
- \* Current Trends in Biomedical Engineering
- \* Diagnostic Imaging Technologies
- \* Advanced Bio-Nanotechnology

### **CDC 2019 C: Intermediate Biomedical Engineering**

#### **Intermediate Biomedical Engineering I (IBME 1)**

##### **General Courses GNRC**

- \* Intermediate Biomedical Engineering and Technology I
- \* Intermediate Biomedical Engineering Laboratory I

##### **Biological Engrg & Technology (Bioengrg/Biotech) BEAT**

- \* General Applications of Biotechnology
- \* Introduction to Genetic Engineering
- \* Biochemical and Bioprocess Technology
- \* Introductory Nanobiotechnology

##### **Medical Engineering & Technology MEAT**

- \* Applications of Medical Informatics
- \* Biomedical Digital Systems
- \* Physiological Signals and Transducers
- \* Medical Engineering Workshop Technology / Excursion

#### **Intermediate Biomedical Engineering II (IBME 2)**

##### **General Courses GNRC**

- \* Intermediate Biomedical Engineering and Technology II
- \* Intermediate Biomedical Engineering Laboratory II

##### **Clinical Engineering & Technology CEAT**

- \* Clinical Measurement & Monitoring Systems
- \* Technology Planning in Health Care Institutions
- \* Design of Clinical (Healthcare) facilities

##### **Rehabilitation Engineering & Orthopaedic Technology REOT**

- \* Rehabilitation Engineering Technology
- \* Prosthesis and Orthotics
- \* Introduction to Bio-regenerative Engineering

##### **Biomedical Physics & Allied Sciences BPAS**

- \* Bio-Medical Physics & Applications
- \* Body Fluids and Blood Safety
- \* Biomedical Engineering Education, Research & Development

### **CDC 2019 D: Basic Biomedical Engineering (BBME)**

#### **Basic Biomedical Engineering I (BBME 1)**

##### **General Courses GNRC**

- \* Basic Biomedical Engineering and Technology I
- \* Basic Biomedical Engineering Laboratory I

##### **Biomedical Sciences BMDS**

- \* Introduction to Bio-Medical Terminologies
- \* General Pathology for Biomedical Engineering
- \* Human Anatomy
- \* General Biochemistry

##### **Engineering Sciences ENGS**

- \* Introduction to Engineering & Systems Phenomenon
- \* Engineering Mechanics (Statics & Dynamics)
- \* Introduction to Analog & Digital Systems
- \* Measurement and Instrumentation

#### **Basic Biomedical Engineering II (BBME 2)**

##### **General Courses GNRC**

- \* Basic Biomedical Engineering and Technology II
- \* Basic Biomedical Engineering Laboratory II

##### **Bio-Engineering BENG**

- \* Introductory to Biomaterials
- \* Introductory Bioelectronics
- \* Introductory Biomathematics
- \* Introductory Bioethics



## **Sponsorship, Advertisement and Exhibition**

The course holds immense potentials for stake-holding biomed engrg, pharmaceutical & the oil industries to sponsor items, advertise and exhibit their products and services.

### **Sponsorship Options**

Programme Halls Rental for 6 days = N600,000.00;      Welcome Cocktail = N600,000.00;  
Tea break for 6 days = N900,000.00      Opening Ceremony / Other sessions = N300,000.00;  
Printing of Course Name tags = N300,000;      Lunch for 6 days = N1,800,000.00  
Course bags / materials for 300 persons = N600,000;      Closing Luncheon = N600,000.00  
Printing of Course programme and Other Publications = N500,000.00  
Pre-course announcement in the print and electronic media = N500,000.00  
Goodwill messages (by sponsors and well wishers)= N20,000.00 / slot  
Donor items, jotters, fliers, memos pads mugs, pens, etc. are available.  
Partial Sponsorship is open for any of the items listed above.

### **Advertisement**

**Black/White:** Full Pg =N40,000; Half Pg =N25,000      **Colour:** Full Pg = N80,000; Half Pg = N45,000.00

### **Exhibition**

**Popular Stand** = N50,000.00; **Executive Stand** = N100,000.00

For more details on the sponsorship, advert and exhibition placements contact the Course Coordinator

### **Programme of Events for CDC 2019 A - D**

#### **Day 1, Sunday 7th April, 2019**

9.00am - 6.00pm = Arrival Arrival Arrival  
6.00pm = Meeting of CBET Council with LOC

#### **Day 2, Monday 8th April, 2019**

8.00am = Arrival/Registration/ Technical Exhibitions  
9.30am = Courtesy call by Council to Distinguished Personalities  
10.30am = Opening Ceremony  
11.30am = Coffee Break  
12.00nn = 1st Technical Session  
2.00pm = Lunch Break  
3.00pm = 1st Practical Session  
4.00pm = 2nd Technical session  
5.00pm = Variety Evening and Close of Day 2

#### **Day 3, Tuesday 9th April, 2019**

8.00am = Registration/ Technical Exhibitions  
9.00am = 3rd Technical Session  
11.00am = Coffee Break  
11.30am = 4th Technical Session  
2.30pm = 2nd Practical Session  
3.30pm = Lunch Break  
4.30pm = Social Evening  
5.00pm = CBET Council Meeting and Close of Day 3

#### **Day 4, Wednesday 10th April, 2019**

8.00am = Registration/ Technical Exhibitions  
9.00am = Revision  
11.00am = Coffee Break  
11.30am = Professional Examinations  
12.30am = Field Work / Workshop on IFMBE-Accredited Online Course  
4.00pm = Lunch Break  
5.00pm = Close of Day 4

#### **Day 5, Thursday 11th April, 2019**

8.00am = Registration/ Technical Exhibitions  
9.00am = Closing Breakfast, Award of Certificates, CBET General Meeting and Publication of Provisional Results of Professional Examinations  
1.00pm = Departure.

### **Programme of Events for CDC 2019 E**

#### **Day 1, Tuesday 9th April, 2019**

9.00am = Arrival Arrival Arrival  
4.30pm = Social Evening

#### **Day 2, Wednesday 10th April, 2019**

8.00am = Arrival/Registration/ Technical Exhibitions  
11.00am = Coffee Break  
12.30pm = Field Work / Workshop on IFMBE-Accredited Online Course  
4.00pm = Lunch Break  
5.00pm = Students Wing Presentation and Close of Day 2

#### **Day 3, Thursday 11th April, 2019**

8.00am = Registration/ Technical Exhibitions  
9.00am = Opening Ceremony and CBET General Meeting  
11.30am = Coffee Break  
12.00nn = 1st Technical Session  
2.00pm = Lunch Break  
3.00pm = 1st Practical Session  
4.00pm = 2nd Technical session  
5.00pm = Variety Evening and Close of Day 2

#### **Day 4, Friday 12th April, 2019**

8.00am = Registration/ Technical Exhibitions  
9.00am = 3rd Technical Session  
11.00am = Coffee Break  
11.30am = 4th Technical Session  
2.30pm = 2nd Practical Session  
3.30pm = Lunch Break  
4.30pm = Social Evening 5.00pm = Close of Day 4

#### **Day 5, Saturday 13th April, 2019**

8.00am = Registration/ Technical Exhibitions  
9.00am = 5th Technical Session  
11.00am = 3rd Practical Session  
12.00nn = Coffee Break  
12.30pm = Revision  
2.30pm = Professional Examination  
3.30pm = Closing Lunch, Award of Certificates, Exam Result Publication  
4.30pm = Departure.

### **Course Organisation**

**Course Coordinator:** Mr Cyrilgentle Okoprocha, FCBET,  
<08069361455> Department of Biology, Imo State Polytechnic,  
Umuagwo-Owerri, Nigeria

**Course Secretariat** c/o LOC Chairman, Ms Loiusa Effiong  
<08068160878> Dept of Biomedical Engineering, General Hospital,  
Iquita-Oron, Akwa IbomUyo, Nigeria