

CURRICULUM VITAE

PERSONAL INFORMATION

NAME: KIPKIRUI ERIC KEMEI
SEX: MALE
DATE OF BIRTH: 17thMay 1976
NATIONALITY: KENYAN
ID NUMBER: 13807111
PHONE NO: +254720286135
E MAIL: erikkemei@gmail.com
RELIGION: CHRISTIAN

EDUCATIONAL BACKGROUND/QUALIFICATIONS:

2008 TO 2018: MOI UNIVERSITY

Master of Science in Chemical and Process Engineering

Core Courses:

- Process integration for energy optimization
- Transport Phenomena
- Advanced Reactor Engineering
- Separation Processes
- Research Methods
- Environmental Impact Assessment
- Waste Management
- Chemical Engineering Thermodynamics
- Advanced Biochemical Engineering

Thesis Title: Treatment of methylene blue waste water using Silver-Doped titanium dioxide illuminated by fluorescent light

2007 – 2008: MOI UNIVERSITY

Post Graduate Diploma in Education

Overall results – Credit

Core Courses:

- Curriculum Development
- General Methods of Teaching
- Educational Administration and Management
- Philosophy of Education
- Educational Psychology
- Economics of Planning of Education
- Guidance and Counseling
- Research methods
- Research Project: Factors Affecting Student's Motivation and Attitude towards Mathematics in Kenyan Secondary Schools.
- Teaching Practice

2001 – 2004:**MOI UNIVERSITY**

Bachelor of Technology in Chemical and Process Engineering

Overall Results: 2nd Class Honors, Upper Division**Core Courses:**

- Chemical Engineering Thermodynamics
- Fluid Mechanics
- Process dynamics and control
- Heat and Mass Transfer
- Reactor Engineering
- Industrial Processes
- Process Economics
- Industrial Pollution
- Process modelling and system analysis
- Computer programming
- Design Project: Manufacture of Benzyl Penicillin Potassium by Fermentation Process

1996 – 1999: THE ELDORET NATIONAL POLYTECHNIC

Diploma in Chemical Engineering

Overall results – Pass

Core Courses

- Unit Operations
- Thermodynamics and Fluid Mechanics
- Reactor Engineering and Process Control
- Engineering Mathematics
- Industrial Chemical Processes
- Industrial Organization and Management
- Project work: Design of Absorption tower for sugar industry

1991 – 1994: KAPSABET BOYS HIGH SCHOOL

Kenya Certificate of Secondary Education (KCSE)

Mean grade B (Minus)

1989 – 1990: MERCY NJERI PRIMARY SCHOOL

Kenya Certificate of Primary Education

PERSONAL STATEMENT

I am self motivated individual and desire to achieve both personal and corporate goals. My emphasis will be on team work and ability to learn and work in multi-discipline and multi-cultural environment.

WORK EXPERIENCE

MAY 2019 TO DATE: Tutorial Fellow, Dedan Kimathi University of Technology

Mechanical Engineering Department

Duties:

- Training chemical engineering students
- Testing and Evaluating Students' Performance
- Supervision of students' Project
- Assessment of trainees during attachment
- Conducting Research Activities

2006 – MAY 2019: Lecturer Chemical Technology Department, Eldoret National Polytechnic

Job Group: M

Duties:

- Teaching and training of Chemical Engineering students
- Testing and Evaluating Students' Performance
- Supervision of students' Project
- Research activities
- Assisting students for TVET fairs and exhibitions
- Supervision of students during attachment

INDUSTRIAL ATTACHMENTS

August 2011: Corn Products Kenya Ltd.

Areas covered:

- Wet milling processing of starch from corn
- Refining processes of starch
- Conversion of starch into glucose
- Steam generation and utilization
- Design of water pump
- Waste water treatment facility

2003: Kenya Industrial Research and Training Institute (KIRDI)

Period: 3months

Areas covered:

- Design of wine manufacturing Process from coconut juice
- Preservation methods
- Equipment specification
- Economic Analysis
- Environmental Impact Assessment

2002: Menengai Oil Refineries

Period: 3 months

Areas covered:

- Edible oil refinery from crude palm oil
- Process control
- Quality control
- Production process monitoring

2001: Nakuru Fibers Ltd

Period: 3 months

Areas covered:

- Production stages in Polyester manufacture
- Quality control systems
- Fault diagnosis
- Process instrumentation and control

PAPERS

Kemei E. K., Ngeno G. K., Odhiambo J., Kwanya E. (2017) Dairy Wastewater treatment using Bio-electrocoagulation Reactor- A case study at a milk Factory in Eldoret: *Journal of Technology and Socio-Economic Development Vol VI, (2017) 2223-9227*

Paper under review:

Kemei E. K., Mwasiagi J. I., Namango S. Parametric And Kinetic Studies in the Treatment of Methylene Blue Waste Water Using Silver Doped Titanium Dioxide Catalyst Illuminated By Fluorescent Light. *Journal of textile institute (2018)*

CONFERENCES

- Kenya Association of Technical Training Institutions (KATTI) 2nd Conference held in Pride Inn Paradise Beach Resort, Mombasa held between 10th to 15th

December 2018: Optimization of Parameters in photo-degradation of Methylene blue wastewater using silver-doped titanium dioxide.

- Eldoret National Polytechnic 6th annual International Conference: Dairy Wastewater treatment Using Bio–electrocoagulation Reactor – A Case Study at a Milk Factory in Eldoret.
- Moi University 8th annual International conference: Effect of Catalyst shape on the treatment of industrial textile wastewater
- Moi University 5th annual International conference: The Future Prospects of Bio-diesel and its Relevance to Kenya: A review

WORKSHOPS AND SEMINARS

- 30th April– 3rd May 2019: Facilitator on Competency Based Assessment by CDACC-TVET held in Kisii National Polytechnic
- 15th – 18th April 2019: Facilitator on Competency Based Assessment by CDACC-TVET held in Nyeri National Polytechnic
- 13th – 15th March 2019: Facilitator on Competency Based Assessment by CDACC-TVET held in Kabete National Polytechnic
- 6th – 8th March 2019: Training of Trainers (ToTs) training on assessment of Competency based curriculum facilitated by CDACC-TVET in KSG Embu
- 25th-27th July 2017: ISO 9001:2015 Internal Quality Auditor Training Course.
- 16th-20th May 2016: Competency Based Education and Training workshop (CBET)
- 21st- 26th April 2014: Item writing workshop facilitated by Kenya National Examinations Council.
- 29th June and 1st July 2011: ISO 9001:2008 Internal Quality Auditor Training Course.
- 26th and 27th October 2007: Curriculum Development workshop.

PROFESSIONAL BODY MEMBERSHIP

- Registered Graduate Engineer with Engineering Registration Board.

LEADERSHIP

- 19th February 2018 to May 2019: Coordinator, Eldoret National Polytechnic Alumni Association
- 30th October, 2009-18th February 2018: Deputy Head of Department Chemical Technology Department, Eldoret Polytechnic.

HOBBIES

- Gospel music
- Playing chess
- Nature walks

REFEREES

1. Sarmat Chemjor
Moi University,
Chemical and Process Engineering Department,
P.O BOX 3900,
Eldoret.
Tel: 0717440496
E mail: samuelsarmat@yahoo.com

2. Paul K. Seurey
Eldoret National Polytechnic,
H.O.D. Chemical Technology Department,
P.O BOX 4461-30100,
Eldoret.
Tel: 0724403434
E mail: pkseurey@gmail.com

3. Prof. Saul Namango Sitati,
Textile and Manufacturing Engineering Department,
Moi University,
P.O BOX 3900,
Eldoret.
Tel: 0723908187
E mail: saul.namango@yahoo.com