AN ENTREPRENEUR TENDS TO BITE OFF A LITTLE MORE THAN HE CAN CHEW HOPING HE'LL QUICKLY LEARN HOW TO CHEW IT.

- ROY ASH

//

# Entrepreneurship curriculum development for Engineering students

Ernest Abaho, PhD

#### +256701105998

Email: <a href="mailto:ernest@abnestconsultancyuganda.com">ernest@abnestconsultancyuganda.com</a>

## Justification for the Engineering Entrepreneurship course



 Technology/Engineering Entrepreneurship can be offered CEDAT students to build entrepreneurial orientation among young engineering students, to enable them to make the best of knowledge resources. Developing the justification of the course from the Engineering, Art and Design Context

- In order to offer relevant entrepreneurship knowledge to the learners, there is need to contextualize the course
  - Consider the business needs of Engineers, IT and Design in Uganda
  - Focus on the business process from ideation to getting started
  - Link the course to other sectors of the Ugandan and global economy
  - Benchmark from best practices and content/structure
  - Consider researchable Technology entrepreneurship concepts

The key concepts in entrepreneurship curriculum for Higher education in applied sciences

- Entrepreneurial mindset
- Entrepreneurial Action
- Creative imagination and prototyping
- Resource mobilization
- Problem analysis
- Business modelling
- Entrepreneurial marketing
- Green entrepreneurship
- Social entrepreneurship
- Innovation and Knowledge management

### Linking the course to the rest of the programme structure

- Create clear and relevant course activities for experiential learning and experimentation
- The product development process should be linked to a business model and an entrepreneurial process
- Students and staff need access to a funding mechanism that can help them scale up their innovations and creations so as to develop pragmatic case studies

• Participants to brainstorm

Developing learning outcomes and course objectives.



# • Discussion about the key course outcomes and course title (5 Minutes)

### Developing appropriate pedagogy and andragogy for entrepreneurship Key considerations



Setting the entrepreneurial action agenda for Engineering, Art, Design and Technology learners

- Change the mindset of the Faculty
- Develop and support a cohort of CEDAT students to champion the change
- Engage the students into collaborative learning with other business colleges *E.g MUBS, COBAMS, KYU*
- Start Entrepreneurship/Innovation exhibitions for EDAT students
- Multidisciplinary research especially behavioral and process studies about creativity, innovation and entrepreneurship

## Entrepreneurship Curriculum development best practices

- It must be inclusive (Industry, Academia, Government, Authors, Regulators, Development partners, Gender mainstreaming)
- Should have room for review
- Should provide a strategic justification
- Should have clear and SMARTER learning objectives and outcomes
- Should be examinable
- Should be coherent with the other courses on the programme
- It should facilitate the development of the Entrepreneurial Mindset

## Entrepreneurial Mindset= How Science Works



Linking the Entrepreneurship curriculum to the industry



## Let us draft the Engineering Entrepreneurship Curriculum

