### Department of Agricultural and Bio-Resources Engineering Ahmadu Bello University Zaria Curriculum

The Agricultural Enginering curricllum emphasizes physical sciences, general engineering courses, mathematics, general agriculture and some aspects of humanities. A general degree is thought to be appropriate based on the current job situation students are often encouraged to take up final year projects in the areas of their interest. Thus, it is hoped, they may determine the area of specialization at higher degree level. These areas are:

- 1. Farm Power and Machinery
- 2. Soil and Water Engineering
- 3. Farm Structures and Environmental Control
- 4. Agricultural Processing and Storage

# **Strategic Goals:**

- 1. High quality teaching and research
- 2. Enabling environment for teaching and learning
- 3. Enhance outreach and community service
- 4. Resources mobilization for sustainable development and wealth creation
- 5. Develop manpower for national and international engagements

# How to achieve the Goals:

# High quality teaching and research;

- Development of staff minds to generate higher level thoughts and action
- Employment and retention of top quality professional staff members
- Provision of adequate number of high impact publications
- Organizing annual international seminars and conferences

# **Enabling environment for teaching and learning;**

- Provision of appropriate equipment and facilities for teaching and research
- Enhancing the moral and working environment of staff
- Identify collaborative approaches to international research engagement and funding

## Enhance outreach and community services

- Communication with the other community leaders and organizations
- Communicate effectively with the alumni
- Mentoring community needs and problems
- Engage in innovative research activities based on needs of community
- Mobilization and dissemination of results to the communities
- Work with community clients, and prepare community oriented researches

## Resource mobilization for sustainable development and wealth creation

- Encourage innovation and exchange of ideas
- Establishing alumni office for contacts and fund raising
- Engaging in collaborative research activities with national and international organizations

### Develop manpower for national and international engagements

- Update of the instrumentation and equipment in the laboratories
- Maximize opportunities for adequate training of graduates
- Build strong partnerships with industry and private foundations

Goals	Objectives	Activities	Timelin e	Responsibilities	Resourc es Require d	Statu s	KPIS	Cost 1 <sup>st</sup> Year (N)	Cost For 5 Years (N)	Remar ks
1. High quality teaching and research	i- Development of staff minds to generate higher level thoughts and action	-Retraining of staff through exchange programme -Admitting high quqlity students -Rehabilitate and update the labs &workshops	2013 to 2017	University management	Fuhd and personn e Personn ell	On- going On- going	No. of staffs trained Results at the end of semester Presence of new equipmen ts	32M 2M 250 M	160M 10M 1000M	
	ii-Employment and retention of	-Recruit qualified and			Funds	-	Presence of new staff	50M	250M	

Log Frame (include a 5 by 5 year timeline and key deliverables 2014 to 2018)

	top quality professional staff members iii- Provision of adequate high impact publications	experience staff annually -Sponsorship to local and international conference and workshop		University managgement	Funds	On- going	Published articles in journals	5M	25M	
	iv- Organizing annual international seminars and conferences	Formation of faculty conference committee	2013 to 2017	University management	Funds	-	Executed conferenc e	2М	10M	
			2014	Deanery	Funds	On- going				
2. Enabling environme nt for teaching and research	i-Provision of appropriate equipments and facilities for teaching and research	Objective I of goal1	-	-	-	-	-	-		
	ii-Enhancing the moral and working environment of staff iii- Identify		2014	University	Funds		Staff list	2М	10M	
	collaborative approaches to international research	Reward hard working	2014	management	, unus		Starr inst	2.171	10141	

	engagement and									
	funding	Reachout	2014 to2017	Deanery	Funds	-	Research proposals	ЗМ	15M	
3. Enhancing outreach and community services	i-Communicate with community leaders and organizations ii-Communicate effectively with the alumni	Seminars and trainng workshop	2014 to 2017	Department	Funds	-	No of Seminars	2M	10M	
	iii-Mentoring community needs and problems iv- Engage in innovative	Open alumni office	2015	Department	-	-	Office allocation	-		
	research activities based on community needs	Researh committee/Re naisance survey	2015 to 2017	Department	Funds	-	Survey records	2M	10M	
	v-Mobilization and dissemination of research result to the communities	Proposal development	2015	Department	Funds	On- going	IAR green book	15M	75M	
	vi- Work with community clients in preparing researcher	Extension	2016	NAERLS/Departm ent	Funds	-	Bulletin	1.5M	7.5M	
			2014				No. of meetings	-		

		Research committee		Reaearch committee	-	-				
4.Resource s mobilizatio n for sustainable developme nt and wealth creation	i-Encourage innovation and exchange of ideas ii- Establishing alumni office for contacts and fund raising iii- Engaging in collaborative research	Create linkages and mentoring	2014	Department	Fund		Office	1M	5M	
	activities with national and international organizations	Allocation of office	2014	Department			onice	1101	5141	
		Research proposal development	2014	Department	Fund	On- going	Proposals	0.15 M	0.75M	
5. Develop manpower for national and internation al engagemen ts	i-Maximize opportunities for adequate training of graduates ii- Build strong partnership with industry and private foundations	Industrial visit and field trips	2014	Department	Fund	On- going	No. of trips	1M	5M	
	ιουπαατιόπε	Industrial survey Collaborative Research	2014	Department	Fund	-	No. of industry engaged	2M	10M	

		Total			1603.25	
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