NATIONAL BOARD FOR TECHNICAL EDUCATION, KADUNA

NATIONAL INNOVATION DIPLOMA

IN

AGRICULTURE

CURRICULUM AND COURSE SPECIFICATIONS

2019

PLOT'B' BIDA ROAD, P.M.B. 2239 KADUNA NIGERIA

NATIONAL INNOVATION DIPLOMA IN AGRICULTURE

GOAL

The National Innovation Diploma in Agriculture is designed to produce a self – reliant, skilled and productive agriculturist.

OBJECTIVES

A product of NID in Agriculture should be able to:

(i) Establish agricultural enterprises in fish, crop and animal production and support services;

(ii) Create enterprise opportunities in apiary, sericulture floriculture and micro-livestock e.g. Rabbits, cane rat snailery, quails and pigeons.

(iii) Carry out enterprise ventures in the production of animal feeds.

(iv) Create enterprises in processing, storage and marketing of Agricultural produce.

(v) Create enterprises in pest and disease control.

ENTRY REQUIREMENTS FOR NATIONAL INNOVATION DIPLOMA IN AGRICULTURE.

The general entry requirements for the NID programme in agriculture are:

(a) Five credits level passes in WAEC or NECO and NABTEB in not more than two sittings.

The subjects must include Biology/Agricultural Science, Chemistry and any three of the following:

Geography, Mathematics, Economics, Technical Drawing, Physics and English language. At least, a pass in English language and Mathematics is compulsory.

(b) Candidates who have successfully completed the Board's recognized pre-National diploma (Science Technology) course may be admitted into the programme. Such students must have passed Biology/Agricultural science, Chemistry, Mathematics, English language and any one of the following subjects: Economics, Technical Drawing, Physics and Geography at WASC, SSSC, GCE O'Level or NEW and NABTEB before undertaking the course.

(c) Post NVEC Final (articulation from VEIs). This candidate must also possess the five credit level passes in the relevant

(d) Subjects as itemized in 3 (a) above.

STRUCTURE OF PROGRAMME

The National Innovation diploma in Agriculture is a two year programme i.e. four semesters.

Three months supervised industrial work experience (SIWES) shall be carried out at the end of each year of the programme.

Each semester shall be of 17 weeks duration made up as follows:

15 Contact weeks of teaching, i.e. recitation, practical exercises, quiz, tests, etc and 2 weeks for examination and registration.

EVALUATION SCHEME

The National Innovation Diploma Examination must be externally moderated. In grading the students, theory shall constitute 30% while Practical is 70%.

ACCREDITATION

Each programme offered at the National Innovation Diploma level shall be accredited by the NBTE before the diplomate can be awarded the diploma certificate. Details about the process of accrediting a programme for the award of the NID are available from the Executive Secretary, National Board for Technical Education, Plot B, Bida Road, P.M.B. 2239, Kaduna, Nigeria.

Conditions for the award of NID

Institutions offering accredited programmes will award the National Innovation Diploma to candidates who successfully completed the programme after passing prescribed course work, examinations, diploma project and the supervised industrial work experience. Such candidates should have completed a minimum of between 72 and 80 semester credit units depending on the programme.

Diplomas shall be classified as follows:

Distinction	-	GPA of 3.50 and above		
Upper Credit	-	GPA of 3.00	-	3.49
Lower Credit	-	GPA of 2.50	-	2.99
Pass	-	GPA of 2.00	-	2.49
Fail	-	GPA of below	-	2.00

Guidance Notes for Teachers Teaching the Programme

The new curriculum is drawn in unit courses. This is in keeping with the provisions of the National Policy on Education which stress the need to introduce the semester credit units which will enable a student who so wish to transfer the units already completed in an institution of similar standard from which he is transferring.

In designing the units, the principle of the modular system by product has been adopted; thus making each of the professional modules, when completed provides the student with technician operative skills, which can be used for employment purpose.

As the success of the credit unit system depends on the articulation of programmes between the institutions and industry, the curriculum content has been written in behavioural objectives, so that it is clear to all the expected performances of the student who successfully completed some of the courses or the diplomats of the programme. There is a slight departure in the presentation of the performance based curriculum which requires the conditions under which the performance are expected to be carried out and the criteria for the acceptable levels of performance. It is a deliberate attempt to further involve the staff of the department teaching the programme to write their own curriculum stating the conditions existing in their institution under which the performance can take place and to follow that with the criteria for deferring an acceptable level of performance. Departmental submission on the final curriculum may be vetted by the Academic Board of the institution.

Our aim is to continue to see to it that a solid internal evaluation system exist in each institution for ensuring minimum standard and quality of education in the programmes offered throughout the polytechnic system.

The teaching of the theory and practical work should, as much as possible be integrated. Practical exercises, especially those in professional courses and laboratory work should not be taught in isolation from the theory. For each course, there should be a balance of theory to practice in the ratio of 70:30 or 80:20.

NATIONAL INNOVATION DIPLOMA IN AGRICULTURE

PROPOSED CURRICULUM TABLE

YEAR 1

SEMESTER I

COURSE CODE	COURSE	LECTURE	TUTORIAL	PRACTICAL	CONTACT HOUR	CREDIT UNIT
STB 112	Morphology and Physiology of living things	1	-	3	60	2
BCH 111	General & Physical chemistry	2	-	3	75	3
MTH 111	Logic & Linear Algebra	2	-	0	30	2
GNS 101	Use of English I	2	-	0	30	2
BPH 111	Mechanics & Properties of matter	2	-	3	75	3
IAE 111	Soil science	1	-	3	60	3
IAE 112	Rural Sociology & Agric. Ext.	2	-	2	60	3
IAE 113	Basic Land Surveying	1	-	3	60	3
AGT 212	Agro-climatology	1	-	0	15	1
	TOTAL	14		18	465	22

See syllabus for Basic Sciences and Mathematics
See syllabus for general studies

NATIONAL INNOVATION DIPLOMA IN AGRICULTURE

PROPOSED CURRICULUM TABLE

YEAR 1

SEMESTER II

COURSE CODE	COURSE	LECTURE	TUTORIAL	PRACTICAL	CONTACT HOUR	CREDIT UNIT
IAE 121	Cereals and Legumes Production	1	-	3	60	3
IAE 122	Bee Keeping and Sericulture	1	-	2	45	2
AGT 222	Poultry Production	1	-	2	45	2
IAE 124	Horticultural Crop Production	1	-	2	45	2
IAE 125	Ruminant Animal Production	1	-	2	45	2
IAE 126	Fiber Crop Production	1	-	3	60	2
AGT 122	Crop Protection	1	-	2	45	2
IAE 128	Root and Tuber Crop Production	1	-	3	60	3
VCS 102	Introduction to Computer	1	-	2	45	2
JDV 210	Entrepreneurship	2	-	1	45	2
		11		22	495	22

See Agricultural Technology Syllabus
See Computer Science Syllabus

NATIONAL INNOVATION DIPLOMA IN AGRICULTURE

PROPOSED CURRICULUM TABLE

YEAR 2

SEMESTER I

COURSE CODE	COURSE	LECTURE	TUTORIAL	PRACTICAL	CONTACT HOUR	CREDIT UNIT
AGT 231	Statistics and Field Experimentation	1	-	2	45	2
CME 122	Workshop Practice	-	-	4	60	2
IAE 215	Fish Farming	1	-	3	60	2
IAE 214	Swine Production	1	-	3	60	2
AGT 214	Tree Crops	1	-	2	45	2
IAE 216	Industrial Crop Production	1		2	45	2
AGT 223	Farm power and mechanization	1	-	3	60	2
IAE 218	Feasibility Studies and Farm Development	1	-	2	45	2
AGT 224	Principles of Genetics and Breeding	1	-	0	15	1
GNS 111	Citizenship Education I	1	-	-	15	1
		9	-	27	450	18

See syllabus for General Studies
See syllabus for Agricultural Technology
See syllabus for Agricultural Engineering

NATIONAL INNOVATION DIPLOMA IN AGRICULTURE

PROPOSED CURRICULUM TABLE

YEAR 2

SEMESTER II

COURSE CODE	COURSE	LECTURE	TUTORIAL	PRACTICAL	CONTACT HOUR	CREDIT UNITS
IAE 221	Feed Production (Livestock/Fisheries)	2	-	3	75	3
IAE 222	Animal products processing	1	-	3	60	3
IAE 223	Principles of Animal Health	1	-	3	60	2
AGT 225	Crop Processing and Storage	1	-	3	60	3
IAE 225	Pasture and Forage Crops Production	1		2	45	2
AGT 229	Farm Management	1	-	-	15	1
IAE 227	Principles of Irrigation and Drainage	1	-	3	60	2
IAE 228	Micro livestock Production	2	-	3	75	3
IAE 229	Project	-		-	-	4
		10	-	20	450	23