1.2.1 List of Programs in which CBCS elective course system implemented in the last completed academic year certified by the Registrar of the affiliating university attested by Principal



No. NU/Ex-UGEx-02/2012 / 437

Date: 03-08-2012

To

The Principal,

Model Christian Rollege, Konins - 797 001

Sub: General Guideline for Semester Under-Graduate

Sir/madam,

Kindly find enclosed herewith a copy of the general guideline for Semester Under-Graduate for your kind information and necessary action.

Yours faithfully,

(Abhijit Sutradhar)

Assistant Registrar (Examinations)

### NAGALAND UNIVERSITY HEADQUARTERS: LUMAMI - 798627

GENERAL GUIDELINES ON INTRODUCTION OF SEMESTER SYSTEM AT THE UNDER GRADUATE (UG) LEVEL BEGINNING FROM ACADEMIC SESSION, 2012

## FOR B.A./ B.SC./ BCA/B.COM. and BBA STREAMS

#### 1. INTRODUCTION

Semester mode of Teaching and Examination in Indian Universities has become a National Policy. The UGC has now made it mandatory for all the Institutions of Higher Learning and affiliated Colleges in the country. A good number of Universities have already started implementing this new system of Education. Nagaland University in its Academic Council (AC) meeting held on 16<sup>th</sup> November, 2011 has taken the decision to introduce the semester system in all the affiliated Colleges. In pursuance of this decision, the AC has approved the Course Curriculum and Syllabi developed by the respective Boards of Undergraduate Studies (BUGS) and resolved to start Semester System in the Colleges from the Academic Session, 2012 in a phased manner. These guidelines have been approved by the AC in its 14<sup>th</sup> meeting held on 21<sup>st</sup> March, 2012.

The entire Course Curriculum and Syllabi have been designed by the respective BUGS keeping in view the needs of the present generation. It is a learner friendly programme suitable to meet the requirements of students in a competitive world. Therefore, it is expected that this will create a better teaching-learning spirit in the Institutions of Higher Education for which both teachers and students shall have to work more sincerely.

The Course Curriculum and Syllabi shall be revised/updated whenever necessary and compulsorily in every three years.

### 2. DURATION OF SEMESTER SYSTEM AND ACADEMIC YEAR

A Minimum of 3 years (6 Semesters) and a Maximum of 5 years (10 Semesters) shall be required to qualify for the B.A/B.Sc./BCA/B.Com., and BBA Degree. The duration of Semester I, III and V shall be from July to December (6 months) during which Admission, Course Work, Conduct of Examinations and Declaration of Results shall be completed including Semester Break. The duration of Semester II, IV and VI shall be from January to June (6 months) during which Admission, Course Work, Conduct of Examinations and Declaration of Results shall be completed, including Semester Break. Every College shall offer uniform pattern of Credit Loads and follow uniform Academic Calendar in each Semester. Academic Calendar shall be prepared by the University.

#### 3. COMBINATION/ SELECTION OF PAPERS 18

- 1) For Honours Course, Total Elective Papers shall be  $\mathscr{L}$  and Total Honours Papers shall be 8 or 7+1 Project Paper apart from other common courses like English, MIL, EVS carrying 100 Marks each.
- 2) For the Pass Course, there shall be 6 papers in each Elective Subject carrying 100 Marks each. Course combination structure both for Arts and Science indicating minimum number of Papers/Marks in different streams are demonstrated in Annexure I, which may vary depending on the choice of papers by students.

Examiner, the Examination Committee of the College may appoint a Faculty member as an External Examiner. Practical shall be a continuous process of evaluation which will be assessed internally. Courses which do not have Practical (eg. Mathematics) can offer general Theory paper of 5 Credits instead of 3 or 4 Credits. For Science Courses, Project Paper shall be compulsory. For Honours Paper, the Credits can be distributed between Theory and Practical depending on the needs of the paper.

# 9. CHOICE BASED CREDIT SYSTEM (C.B.C.S) AND ADD ON COURSE

(i) In the *Sixth semester*, a Choice Based Credit paper (CBCP) shall be offered compulsorily. CBCP is a part of the six semesters. Under this provision, student may be given freedom to opt for any paper of 3 Credits as per his/her interest in any subject irrespective of the streams of studies within or outside of his/her thrust areas. A learner can also move from one department to another department within the institution carrying the same amount of Credits. In case of inability to offer CBCP, EVS II or any other suitable course may be developed by the college till the college is equipped to offer such course.

(ii) Add On Course- This is an additional course to be offered outside of the six semesters programme. It should be a vocational oriented course for which University shall give Certificate. Respective colleges can design such courses suitable to the local/regional needs. Add on Course can be a continuation of CBCP that can be developed by respective colleges and run the program according to local convenience. A comprehensive list of CBCP/Add on course is shown in Annexure V. This programme can be arranged in addition to normal routine works for which Colleges can charge extra fees from the learners to enable them to earn a Certificate. In this way, provisions for earning Certificate are encouraged at the College level.

#### 10. GRADING SYSTEM

(1). A Seven Point Grading System shall be followed as given below. This is one of the most popularly used models followed by different Universities worldwide and which is seen as most appropriate in our

#### **GRADING RANGE:**

Grade	Marks	Grade Points
0	80 and above	7
A	70 to 79.99	6
В	60 to 69.99	5
C	55 to 59.99	4
D	50 to 54.99	3
E	45 to 49.99	2
F (Fail)	Less than 44.99	1

(2). In the Credit and Grade Point System, the assessment of individual courses in the concerned examinations shall be on the basis of Marks only, but the Marks shall be converted into Grades wherein. the overall performance of the learners shall be reflected considering the Credit Points for any given Course. However, the overall evaluation shall be designated in terms of Grade as demonstrated below.

#### 11. ABBREVIATIONS AND FORMULA

G: Grade

GP: Grade Points

C: Credit

**CP: Credit Points** 

CG: Credits x Grades (Product of Credits & Grades) ΣCG: Sum of Product of Credits & Grade Points

BSc. Course (Pass & Hons.) (Practical Papers)

201	Internal	
70%	End Semester	Exam

Course	No of Elective Subjects	Total papers per semester	Total No of papers	Total Marks per paper	Grand Total
Elective Courses (Practical Papers)	3	6	18	50	900
Hons. Course (Practicals)	3.4 10		6	50	300
Cumulative Total			24		1200

Note: 1. Mathematics has no practical hence no additional marks for practical is allotted.

2. Physics Honours has 2 practical papers.

3. Total marks may vary from paper to paper according to the choice of paper/course.

# Annexure II (a) A Model of Semester wise Distribution of Courses and Credit Values (SCIENCE COURSES)

TYPE OF PAPERS /	FIRST YEAR (Credit x No. of Papers)		SECOND YEAR (Credit x No. of Papers)		THIRD YEAR (Credit x No. of Papers)		TOTAL CREDIT
CREDITS ASSIGNED	First Semester	Second Semester	Third Semester	Fourth Semester	Fifth Semester	Sixth Semester	VALUE
General Papers (Theory)	04 x 03	04 x 03	04 x 03	04 x 03	04 x 03	04 x 03	72
General Papers (Practical)	01 x 03	01x 03	01x03	01x03	01x03	. 01x03	18
Other Courses	02x1 (General English)	02x1 (General English)	02 x1 (Computer)		02 x 01 EVS	O3x1 CBCP/C	10

For the Honours Courses, each semester shall have 3 Credits each and final semester shall have

# 1.2.1.1 Syllabus of programmes in which CBCS/Elective course system implemented

## **Department of Botany**

## NAGALAND UNIVERSITY CURRICULUM FOR B.Sc PROGRAMME IN BOTANY

Se	emester	Course Number	Course Name	Credits	Total Credits
ı	Pass	BOT-101 BOT-102	Biodiversity I Practical	4	8
	Honours BOT-103 Microbiology and Plant Pathology BOT-104 Practical		2		
11	Pass	BOT-201 BOT-202	Biodiversity II and Plant Pathology Practical	4	8
	Honours	BOT-203 BOT-204	Embryology and Palynology Practical	2	
m	Pass	BOT-301 BOT-302	Morphology, Anatomy and Angiosperm Taxonomy Practical	4	8
	Honours	BOT-303 BOT-304	Ethnobotany, Economic Botany and Biometric Practical	2	
	Pass	BOT-401 BOT-402	Plant Physiology and Ecology Practical	4	
IV	Honours	BOT-403 BOT-404	Environmental Biology and Phytogeography Practical	2	8
v	Pass	BOT-501 BOT-502	Biochemistry and plant breeding Practical	4	8
	Honours	BOT-503 BOT-504	Molecular Biology and Biotechnology Practical	2	
	Pass	BOT-601 BOT-602	Cell Biology and Genetics Practical	4	
VI	Honours	BOT-603	choice Based Credit System a) Angiosperm Taxonomy b) Methodology and Perspective of Science c) Plant Biotechnology d) Forestry e) Mushroom Cultivation f) Horticulture	3	10
		BOT-604	Project Work	2	

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## **Department Of Chemistry**

B.Sc. Course Structure Subject : Chemistry

Semester		Course Number	Course Name	Credits	Total Credits	
	Pass	CHEM-101	Inorganic (Theory)	4		
I	1.5000	CHEM-102	Inorganic (Practical)	1		
	Honours	CHEM-103	Inorganic (Theory)	2	8	
		CHEM-104	Inorganic (Practical)	1		
	Pass	CHEM-201	Organic (Theory)	4		
11	- CZ 2 50	CHEM-202	Organic (Practical)	1		
	Honours	CHEM-203	Organic (Theory)	2	8	10-6-120
		CHEM-204	Organic (Practical)	1-		
	Pass	CHEM-301	Physical (Theory)	4		
Ш		CHEM-302	Physical (Practical)	1		
	Honours	CHEM-303.	Physical (Theory)	2	8	
		CHEM-304	Physical (Practical)	1		
	Pass	CHEM-401	Inorganic (Theory)	4		
IV	Marie Control	CHEM-402	Inorganic (Practical)	1		
	Honours	CHEM-403	Quantum Chemistry & Molecular	2	8	
			Spectroscopy			
		CHEM-404	Advanced Practical-1	1		
			(Physical, Inorganic and Organic)			
	Pass	CHEM-501	Organic (Theory)	4	The same of	
V		CHEM-502	Organic (Practical)	1	8	
	Honours	CHEM-503	Analytical Chem & Applications of	2	7 °	
			Spectroscopy.			
		CHEM-504	Advanced Practical-II	1		
			(Physical, Inorganic and Organic)			
A SIGNAL	Pass	CHEM-601	Physical (Theory)	4		
VI		CHEM-602	Physical (Practical)	1	10	
	Honours	CHEM-603	Choice Based Credit Paper	3	10	
			a. Biological Chemistry			
	1200					
			b. Nano Chemistry			
			c. Medicinal Chemistry			
			d. Environmental and Green			
			Chemistry			
19		CIVIEN CO.	Devices Work	2		
	Change Hilliam	CHEM-604	Project Work	-		

<sup>\*</sup> Choice based credit paper will be offered depending on the availability of specialized teacher in the respective colleges

## **Department of Chemistry**

CHEM -603 Choice Based Credit Paper (Honours Course –Theory)

The Elective papers selected are:

- 1. Biological Chemistry
- 2. Nano Chemistry
- 3. Environmental and Green Chemistry
- 4. Medicinal Chemistry

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## **Department of Geology**

## B.Sc. (PASS & HONOURS) SYLLABUS IN GEOLOGY

	1" Semester
Geol-101 (P&H) Geol-102 (P&H) Geol-103 (H) Geol-104 (H)	Physical and Structural Geology Practical on Physical and Structural Geology Physics and Dynamics of the Earth Practical on Physics and Dynamics of the Earth
	2 <sup>nd</sup> Semester
Geol-201 (P&H) Geol-202 (P&H) Geol-203 (H) Geol-204 (H)	Crystallography and Mineralogy Practical on Crystallography and Mineralogy Geomorphology, Remote Sensing and Engineering Geology Practical on Geomorphology, Remote Sensing and Engineering Geology
	3 <sup>rd</sup> Semester
Geol-301 (P&H) Geol-302 (P&H) Geol-303 (H) Geol-304 (H)	
	4th Semester
Geol-401 (P&H) Geol-402 (P&H) Geol-403 (H) Geol-404 (H)	
	5 <sup>th</sup> Semester
Geol-501 (P&H) Geol-502 (P&H) Geol-503 (H) Geol-504 (H)	Sedimentary Petrology and Environmental Geology Practical on Sedimentary Petrology and Fieldwork Advanced Palaeontology and Indian Stratigraphy Practical on Advanced Palaeontology and Indian Stratigraphy
	6 <sup>th</sup> Semester
Geol-601 (P&H) Geol-602 (P&H) Geol-603 (H) Geol-604 (H)	Economic Geology and Indian Mineral Resources Practical on Economic Geology and Indian Mineral Resources Elective Paper (any one)  (i) Advanced Remote Sensing and GIS  (ii) Geology and Mineral Resources of Nagaland Practical on Elective Papers
Geol-605 (H)	Geological Fieldwork

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## **Department of Zoology**

		Course number	Name of paper	Credits	Tota
	1	ZOO-101	Introduction to Non-Chordates (Theory)	4	
I	Pass	ZOO-102	Introduction to Non-Chordates (Practicals)	1	
		ZOO-103	Evolutionary Biology and Animal Behaviour (Theory)	2	8
	Honours	ZOO-104	Evolutionary Biology and Animal Behaviour (Practicals)	1	
17		ZOO-201	Chordates and Evolution (Theory)	4	
( i	Pass	ZOO-202	Chordates and Evolution (Practicals)	1 - 12	etja
II		ZOO-203	Immunology and Biostatistics (Theory)	2	8
	Honours	ZOO-204	Immunology and Biostatistics (Practicals)	1	
		ZOO-301	Cell and Molecular Biology I (Theory)	4	
Ш	Pass	ZOO-302	Cell and Molecular Biology I (Practicals)	1	
	Honours	ZOO-303	Cell and Molecular Biology II (Theory)	2	8
		ZOO-304	Cell and Molecular Biology II (Practicals)	1	
		ZOO-401	Developmental Biology and Physiology (Theory)	4	
п.	Pass	ZOO-402	Developmental Biology and Physiology (Practicals)	1	
IV		ZOO-403	Chordates and Physiology (Theory)	2	8
	Honours	ZOO-404	Chordates and Physiology (Practicals	1	
		ZOO-501	Biochemistry and Genetics (Theory)	4	
	Pass	ZOO-502	Biochemistry and Genetics (Practicals)	1	
V		ZOO-503	Genetics/Applied Zoology/ Environmental Management (Theory)	2	8
	Honours	ZOQ-504	Genetics/Applied Zoology/ Environmental Management (Practicals)	1	
		ZOO-601	Ecology and Applied Zoology (Theory)	4	
	Pass	ZOO-602	Ecology and Applied Zoology (Practicals)	1 .	
VI	Honours	ZOO-603	Choice Based Credit Paper. (NOTE: Colleges have the option of offering any paper relevant to zoology based on their manpower and infrastructure).	3	10
		ZOO-604	Project work	2	

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#### Semester VI (Honours)

#### THEORY

#### ZOO-603: (Choice Based Credit System)

Colleges have the option of offering any paper relevant to zoology based on their manpower and infrastructure. Some broad topics are mentioned below as probable themes/topics.

Biotechnology Genetic Engineering Microscopy and Chromatography Pisciculture Aquaculture Sericulture Biodiversity

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# Tabulated list of programs in which CBCS elective course system implemented in the last academic year showing sl. No, list of

SL.	Programs	Course	Name of the Paper	YEAR
No		Number		
1	B.Sc Chemistry	CHEM-603	Environmental and Green Chemistry	2021
	Honours			
2	BSc Botany	BOT-603	Forestry	2021
	Honours			
3	BSc Geology	GEOL-603	Geology and Mineral resources of	2021
	Honours		Nagaland	
4	BSc Zoology	ZOO-603	Aquaculture	2021
	Honours			