

Sri Ranjan Kumar Pradhan
Controller of Examination



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No 321 /VDU/EXAM/2024

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NOTICE

It is for the information of the Principal /Director /Dean of all the affiliated colleges that the BoS of University has unanimously resolved for the implementation of NEP-2020 curriculum framework from academic session 2024-25. In this regard the detailed syllabus for 1st and 2nd Semester has been prepared. You are therefore requested to instruct your course teachers to follow the following guidelines while carrying out the classroom activities of UG 1st Semester students who have taken admission during session -2024-25.

In first semester the students are required to complete the following Courses :

- Two papers of the Major / Hons. Subject carrying 04 credits each. Appendix-1
- One paper from Minor-2. The 1st papers of Minor-1 is listed subject wise in the Appendix-I
- One paper from Multi Disciplinary Course(MDC) and the MDC for B.SC,& BA listed in Appendix- 3
- One Paper from Ability Enhancement Course (AEC). The AEC for all the students (BA/B.Sc/ B.Com) is Odia. The students can opt for Hindi in place of Odia as AEC.
- One paper from value added courses (VAC). All the students shall take Environmental Studies and Disaster Management(ES & DM) as VAC in their 1st Semester.

Credit Frame Work for UG 1st Semester

- Honours / Major / Core- Paper-1 : 04 Credit = 6 classes per week.**
- Honours / Major / Core- Paper-2 : 04 Credit = 6 classes per week.**
- Minor Elective Paper 1 : 04 Credit = 6 classes per week.**
- Multi Disciplinary Course : 03 Credit = 4 classes per week.**
- Value Added Course : 03 Credit = 4 classes per week.**
- AEC : 04 Credit = 6 classes per week.**
- Total : 22 Credit= 32 classes per week.**

Example :

If a College is having BA programme and is having subjects like History, Political Science, Education, Odia & English then the subject combination is as follows :

1st Semester

Combination -Major : History, Minor (1) - English , Minor (2) - Odia

Then the student will read the following Courses in the first semester ::

1. Major (History) Paper-1 = 06 Classes per week
2. Major (History) Paper-2 = 06 Classes per week
3. Minor (English) Paper-1 = 06 Classes per week
4. Multi Disciplinary (MDC) Course - 04 Classes per week
5. Ability Enhancement Course (AEC) Odia – 06 Classes per Week
6. Value Added Course (Environment studies & Disaster Management) -04 Classes Per Week

The student will read the following Courses in the Secondsemester ::

1. Major (History) Paper-3 = 06 Classes per week
2. Major (History) Paper-4 = 06 Classes per week
3. Minor (Odia) Paper-1 = 06 Classes per week
4. Multi Disciplinary (MDC) Course = 04 Classes per week
5. Ability Enhancement Course (AEC) English = 06 Classes per Week
6. Skill Enhancement Course (SEC) = 04 Classes per week

Table-VI : Four Year Hons. Without Research

Semester	Major	Minor-I	Minor-II	Multi-disciplinary (MDC)	Ability Enhancement Course (AEC)	Skill Enhancement Course	Value Added Course (VAC)	Community Engagement & Services/ / Field Work/ Internship	Total Minimum Credit
I	2X4=8	1 X4 =4		1X3=3	1 X4 =4		1X3=3		22
	Major Paper - 1	Minor Paper- 1		MDC- 1	Odia AEC-1		Environmental Studies and Disaster Management		
	Major Paper - 2								
II	2X4=8		1 X4 =4	1X3=3	1 X4 =4	1X3=3			22
	Major Paper-3		Minor-II Paper-1	MDC- 2	English AEC-2	SEC			
	Major Paper-4								

APPENDIX-1**GUIDELINES FOR MAJOR COURSES OF STUDY FOR 1ST AND 2ND SEMESTER**

MAJOR SUBJECT	Semester	Major Course	COURSE NAME
PHYSICS	I	PAPER -1	Mathematical Physics -1
		PAPER -2	Mechanics
	II	PAPER-3	Electricity & Magnetism
		PAPER-4	Waves and Optics
POLITICAL SCIENCE	I	PAPER -1	Fundamentals of Political Science
		PAPER -2	Introduction to the constitution of India
	II	PAPER-3	Introduction to political theory
		PAPER-4	Comparative Govts.
PSYCHOLOGY	I	PAPER -1	Introductory Psychology
		PAPER -2	Basic Psychological Process
	II	PAPER-3	Process of Human Empowerment
		PAPER-4	Basic Developmental Process
SOCIOLOGY	I	PAPER -1	Introduction to Sociology -I
		PAPER -2	Introduction to Sociology – II
	II	PAPER-3	Indian Society
		PAPER-4	Classical Sociological Thinkars
ZOOLOGY	I	PAPER -1	Invertebrates :protista to Echinodermate
		PAPER -2	Diversity of Chordates
	II	PAPER-3	Microbiology
		PAPER-4	Cell Biology
ECONOMICS	I	PAPER -1	Basic Economics – I
		PAPER -2	Indian Economy-I
	II	PAPER-3	Basic Econmics -II
		PAPER-4	Indian Economics -II
COMPUTER SCIENCE	I	PAPER -1	Introduction to Computer Science Python Programming
		PAPER -2	Problem Solving with C Programming
	II	PAPER-3	Data Structure
		PAPER-4	Data Base Management System

HOME SCIENCE	I	PAPER -1	Human Psychology
		PAPER -2	Food and Nutrition
	II	PAPER-3	Child Development
		PAPER-4	Family Resource Management
BOTANY	I	PAPER -1	Microbiology and Phycology
		PAPER -2	Analytical techniques in Plants
	II	PAPER-3	Cell Biology
		PAPER-4	Mycology and Phytopathology
COMMERCE	I	PAPER -1	Financial Accounting
		PAPER -2	Cost Accounting
	II	PAPER-3	Corporate Accounting & Reporting
		PAPER-4	Income Tax Law and Practice
FOOD TECHNOLOGY	I	PAPER -1	Concepts of Microbiology
		PAPER -2	Principles of Food Science
	II	PAPER-3	Food and Nutrition
		PAPER-4	Fermentation Technology and Food Products
ANTHROPOLOGY	I	PAPER -1	Introduction to Anthropology
		PAPER -2	Applications of Anthropology
	II	PAPER-3	Introduction to Sociocultural Anthropology
		PAPER-4	Introduction to Archeological Anthropology
BIO TECHNOLOGY	I	PAPER -1	Cell Biology and Genetics
		PAPER -2	Biochemistry and metabolism
	II	PAPER-3	Microbiology and Microbial Technology
		PAPER-4	Biostatistics and Computer Application
ITM	I	PAPER -1	Data Structure using C
		PAPER -2	Operating Systems
	II	PAPER-3	Principles of Management

		PAPER-4	Java Programming
CHEMISTRY	I	PAPER -1	Inorganic Chemistry -I
		PAPER -2	Fundamental of Organic Chemistry
	II	PAPER-3	States of Matter & Ionic Equilibrium
		PAPER-4	Chemical Thermodynamics Equilibrium and Colligative Properties
EDUCATION	I	PAPER -1	Philosophical Foundation of Education
		PAPER -2	Psychological foundation of Education
	II	PAPER-3	Sociology of Education
		PAPER-4	Pedagogical Perspectives of Education
ENGLISH	I	PAPER -1	Introduction to Literary Studies
		PAPER -2	Introduction to language and linguistics
	II	PAPER-3	British Poetry and Drama
		PAPER-4	European Classical Literature
GEOGRAPHY	I	PAPER -1	Physical Geography
		PAPER -2	Human Geography
	II	PAPER-3	Population Geography
		PAPER-4	Geography and Geo-Spatial Techniques
HINDI	I	PAPER -1	Hindi Sahitya Kaitihas Part-1
		PAPER -2	Madhya Kalina Hindi Kabita (Nirguna and Rama Bhakti Kabya Dhara)
	II	PAPER-3	Krishna Bhakti and Riti Kalina Kabita
		PAPER-4	Hindi Sahitya Kaitihas Part-II
HISTORY	I	PAPER -1	History of India-I (From prehistory to Vedic Age)
		PAPER -2	Social formation and cultural pattern of ancient world

	II	PAPER-3	History of India- II (From State formation to early medieval 600 BC
		PAPER-4	Social formation & Cultural Pattern of Medieval World
IRPM	I	PAPER -1	Industrial Relation
		PAPER -2	Protective Labour Legislation
	II	PAPER-3	Principale& Practices of Management
		PAPER-4	Labour Welfare
MATHEMATICS	I	PAPER -1	Calculus & Analytical Geometry
		PAPER -2	Introduction to Algebra and Number Theory
	II	PAPER-3	Real Analysis
		PAPER-4	Algebra- I
ODIA	I	PAPER -1	BhasaBignyan
		PAPER -2	Sahitya Ra Swarupa
	II		
PHILOSOPHY	I	PAPER -1	Introduction to Philosophy
		PAPER -2	Introduccion to Moral Philosophy
	II	PAPER-3	Living Philosophy of Vedanta Upanisad
		PAPER-4	Logical & Scientific Method Introduction
STATISTICS	I	PAPER -1	Descriptive Statistics
		PAPER -2	Linear Algebra
	II	PAPER-3	Probability & Probability Distribution
		PAPER-4	Calculus

BCA	I	PAPER -1	Problem Solving using C language
		PAPER -2	Introduction to Python programming
	II	PAPER-3	Data Structure
		PAPER-4	Object oriented programming using C+

BBA	I		
			Detailed AICTE Syllabus is attached
	II		

Guidelines for selection of Minor Course in 1st. SemesterSemester :

Physical Science Group : The students who have opted Physics / Chemistry / Mathematics / Statistics / Computer Science etc. ,as their Major subject, comes under this category and they can opt the following subjects as minor subject Physics / Chemistry / Mathematics / Statistics / Computer Science / Geography / Anthropology . The Minor Subject must be a different subject from the Hons / Major Subject.

Biological Science Group: The students who have opted Botany / Zoology /Biotechnology etc. as their Major Subject comes under this category and the can opt Botany /Zoology /Chemistry as their Minor Subject. The Minor Subject must be a different subject from the Hons / Major Subject.

Humanity / Arts Group : The Humanity students can opt History , Pol.Sc.,Economics,,Sociology , Psychology ,Philosophy ,Education , Anthropology , Geography , English . Odia as their Minor subject. The Minor Subject must be a different subject from the Hons / Major Subject.

*Each student shall choose two Minor subjects and complete four papers from each subject in the ONE MAJOR TWO MINOR FOUR YEAR DEGREE PROGRAMME WITH HONS.

The Minor courses of different subject in first and second semester are listed below.

APPENDIX-2

Sl.No	Minor Subject		Minor Course Name
1	Physics	Minor-Phy-1	Mechanics
2	Chemistry	Minor-Che-1	Atomic Structure , Periodicity of properties & Chemical Bonding
3	Botany	Minor-Bot-1	Microbiology & Phycology
4	Zoology	Minor-Zoo-1	Invertebrates :Protista to Echinodermate
5	Mathematics	Minor-Math-1	Calculus & Analytical Geometry
6	History	Minor-Hist-1	
7	Political Science	Minor-Pol. Sc.-1	Introduction to the Constitution of India
8	Economics	Minor-Eco-1	Basic Economics -I
9	Sociology	Minor-Soc-1	Introduction to Sociology-I

10	Philosophy	Minor-Phil-1	Introduction to Moral Philosophy
11	Education	Minor-Edu-1	Philosophical Foundation of Education
12	Anthropology	Minor-Anth-1	Introduction to Anthropology
13	Geography	Minor-Geog-1	Physical Geography
14	IRPM	Minor-IRPM-1	Industrial Relation
15	Odia	Minor-Odia-1	Sahitya ra Swarupa
16	English	Minor-Eng-1	Introduction to literary studies
17	BCA	Minor-BCA-1	Principles of Management

Guideline for selection of Multi Disciplinary Course (MDC)

APPENDIX-3

2nd Semester

1. All the students of BA/ B.Sc (Except Home Science and Food Technology Honours) shall choose – **Food and Nutrition** as MDC in the 1st Semester
2. The Home Science and Food Technology Honours students shall choose **Gandhi and Ambedkar** as MDC in 1st Semester.

2nd Semester

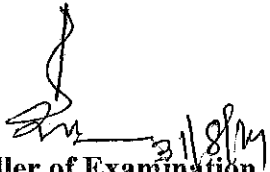
1. All the Students of BA/ B.Sc (Except Home Science & Food Technology Honours) shall chose **Gandhi & Ambedkar** as MDC in the Second Semester
2. The Home Science Honours students shall choose **Gender & Politics** as MDC in the second Semester.

Guidelines for selection of SEC in 2nd.Semester :

APPENDIX-4

Sl.No	Honours / Major	SEC
1	Physics	Renewable Energy and Energy Harvesting
2	Chemistry	Cosmetic & Pharmaceutical Chemistry
3	Botany	Mushroom Cultivation
4	Zoology	Fermentation Technology
5	Mathematics	Introduction to statistics and Data Analysis
6	Computer Science	Data Analyst-I
7	History	Personality Development

8	Political Science	Personality Development
9	Economics	Introduction to statistics and Data Analysis
10	Sociology	Sociology of disaster Resilience & Recovery
11	Philosophy	Yoga for Everyday Life
12	Education	Life Education
13	Anthropology	Visual Anthropology
14	Geography	Introduction to statistics and Data Analysis
15	Hindi	
16	English	Gender sensitization and resolving gender conflicts
17	Odia	Gana Madhyam Abam Ganajogajoga
18	Biotechnology	Food Fermentation
19	Food Technology	Food Fermentation
20	Statistics	Introduction to statistics and Data Analysis
21	Home Science	Principles of management


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